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Chhattisgarh Public Service Commission

Notations :

1. Options shown in **green** color and with  icon are correct.
2. Options shown in **red** color and with  icon are incorrect.

Question Paper Name:	ARTO and TSI
Subject Name:	ARTO and TSI
Duration:	180
Calculator:	None
Magnifying Glass Required?:	No
Ruler Required?:	No
Eraser Required?:	No
Scratch Pad Required?:	No
Rough Sketch/Notepad Required?:	No
Protractor Required?:	No

GK of Chhattisgarh

Group Maximum Duration :	60
Group Minimum Duration :	60
Revisit allowed for view? :	No
Revisit allowed for edit? :	No

GK of Chhattisgarh

Mandatory or Optional:	Mandatory
Display Number Panel:	Yes
Group All Questions:	No

Question Number : 1 Question Id : 4169881957 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Read the following statements.

1. In the 'Prayagprasasti' of Samudragupta, Chhattisgarh is referred to as Kosala.
2. Samudragupta had defeated King Mahendra of Kosala during his southern expedition.
3. He annexed this state into his empire.

Select the correct answer.

Options :

1.  1, 2 and 3 are correct.
2.  1 and 2 are correct.
3.  2 and 3 are correct.



4. ✗ 1 and 3 are correct.
5. ✗ Only 1 is correct.

Question Number : 1 Question Id : 4169881957 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

निम्नलिखित कथन पढ़िये।

1. समुद्रगुप्त की 'प्रयागप्रशस्ति' में उत्तीसगढ़ को कोसल कहा गया है।
2. समुद्रगुप्त ने अपने दक्षिणी अभियान में कोसल के राजा महेन्द्र को पराजित किया था।
3. उसने इस राज्य को अपने सामाज्य में सम्मिलित कर लिया।

सही उत्तर चुनिये।

Options :

1. ✗ 1, 2 एवं 3 सही हैं।
2. ✓ 1 एवं 2 सही हैं।
3. ✗ 2 एवं 3 सही हैं।
4. ✗ 1 एवं 3 सही हैं।
5. ✗ केवल 1 सही है।

Question Number : 2 Question Id : 4169881958 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Match List I with List II.

List I

(Ancient dynasties of Chhattisgarh)

- A. Rajarshitalyakula Dynasty
- B. Nala Dynasty
- C. Sharabhpuriya Dynasty
- D. Pandu Dynasty

List II

(Kings)

1. Bhavadatta Varma
2. Tivardeva
3. Bhimsena I
4. Prasannamatra

Options :

1. ✗ A-1, B-3, C-2, D-4
2. ✗ A-2, B-4, C-3, D-1
3. ✓ A-3, B-1, C-4, D-2
4. ✗ A-4, B-2, C-1, D-3
5. ✗ A-4, B-3, C-1, D-2

Question Number : 2 Question Id : 4169881958 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1



सूची । को सूची ॥ से सुमेलित कीजिए-

सूची ।
(छत्तीसगढ़ के प्राचीन राजवंश)

- A. राजर्षितुल्यकुल वंश
- B. नलवंश
- C. शरभपुरीय वंश
- D. पाण्डुवंश

सूची ॥
(शासक)

- 1. भवदत्त वर्मा
- 2. तीवरदेव
- 3. भीमसेन प्रथम
- 4. प्रसन्नमात्र

Options :

- 1. ✗ A-1, B-3, C-2, D-4
- 2. ✗ A-2, B-4, C-3, D-1
- 3. ✓ A-3, B-1, C-4, D-2
- 4. ✗ A-4, B-2, C-1, D-3
- 5. ✗ A-4, B-3, C-1, D-2

Question Number : 3 Question Id : 4169881959 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following rulers were associated with the Chhindak Naga dynasty of Bastar?

- 1. Someshwar Deva
- 2. Gopal Deva
- 3. Kanhar Deva
- 4. Jaisingh Deva

Select the correct answer.

Options :

- 1. ✗ 1, 2, 3
- 2. ✗ 2, 3, 4
- 3. ✗ 1, 2, 4
- 4. ✓ 1, 3, 4
- 5. ✗ 1, 2, 3, 4

Question Number : 3 Question Id : 4169881959 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

निम्नलिखित में से कौन से शासक बस्तर के छिंदक नागवंश से संबंधित थे?

1. सोमेश्वर देव
2. गोपाल देव
3. कन्हर देव
4. जयसिंह देव

सही उत्तर चुनिये।

Options :

1. ✗ 1, 2, 3
2. ✗ 2, 3, 4
3. ✗ 1, 2, 4
4. ✓ 1, 3, 4
5. ✗ 1, 2, 3, 4

Question Number : 4 Question Id : 4169881960 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Read the following statements.

1. The commander, Bhaskar Pant, of Nagpur King Raghuji Bhosla invaded Ratanpur kingdom.
2. The forces of Ratanpur kingdom fought with the Marathas.
3. The king of Ratanpur was killed while fighting.

Select the correct answer.

Options :

1. ✗ 1, 2 and 3 are correct.
2. ✗ 1 and 2 are correct.
3. ✗ 2 and 3 are correct.
4. ✗ 1 and 3 are correct.
5. ✓ Only 1 is correct.

Question Number : 4 Question Id : 4169881960 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

निम्नलिखित कथन पढ़िये।

1. नागपुर के राजा रघुजी भोसला के सेनापति भास्करपंत ने रतनपुर पर आक्रमण किया।
2. रतनपुर राज्य की सेना ने मराठों से युद्ध किया।
3. रतनपुर का राजा युद्ध करते हुए मारा गया।

सही उत्तर चुनिये।

Options :

1. ✗ 1, 2 एवं 3 सही हैं।
2. ✗ 1 एवं 2 सही हैं।
3. ✗ 2 एवं 3 सही हैं।
4. ✗ 1 एवं 3 सही हैं।
5. ✓ केवल 1 सही है।

Question Number : 5 Question Id : 4169881961 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following pairs (administrative unit of Chhattisgarh from 1854 to 1861 and its officer) is correctly matched?

Options :

1. ✗ Civil Court – Wilkinson
2. ✗ Criminal Court – Capt. Cotton
3. ✗ Police Superintendent – Capt. Roberts
4. ✓ Post – Master – Lieutenant Smith
5. ✗ Public Works – Roderidges

Question Number : 5 Question Id : 4169881961 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

निम्नलिखित में से कौनसी जोड़ी (1854 से 1861 तक छत्तीसगढ़ की प्रशासकीय इकाई एवं उसका अधिकारी) सुमेलित है?

Options :

1. ✗ दीवानी न्यायालय - विल्किन्सन
2. ✗ फौजदारी न्यायालय - कैप्टन कॉटन
3. ✗ पुलिस अधीक्षक - कैप्टन रॉबर्ट
4. ✓ पोस्ट-मास्टर - लेफ्टनेंट स्मिथ
5. ✗ लोक निर्माण - रोडरिग्स

Question Number : 6 Question Id : 4169881962 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following organizations were established in Raipur district from 1870 to 1900?

1. Literary and Scientific Association
2. Malini Reading Club
3. Chhattisgarh Bal Samaj
4. Kavi Samaj

Select the correct answer.

Options :

1. ✓ 1, 2, 3
2. ✗ 2, 3, 4
3. ✗ 1, 2, 4
4. ✗ 1, 3, 4
5. ✗ 1, 2, 3, 4

Question Number : 6 Question Id : 4169881962 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

1870 से 1900 तक रायपुर जिले में निम्नलिखित में से कौन से संगठन स्थापित हुए?

1. लिटररी एंड साइंटिफिक असोसिएशन
2. मालिनी रीडिंग क्लब
3. छत्तीसगढ़ बाल समाज
4. कवि समाज

सही उत्तर चुनिये।

Options :

1. ✓ 1, 2, 3
2. ✗ 2, 3, 4
3. ✗ 1, 2, 4
4. ✗ 1, 3, 4
5. ✗ 1, 2, 3, 4

Question Number : 7 Question Id : 4169881963 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following caused the cultivators of Kandel village to launch an agitation in 1920?

Options :

1. ✗ Increase in land tax
2. ✗ Imposition of canal tax
3. ✓ Penalty for use of canal water
4. ✗ Increase in irrigation tax

5. ❌ Ban on use of forest produce

Question Number : 7 Question Id : 4169881963 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

निम्नलिखित में से किस कारण से 1920 में कण्डेल गांव के किसानों ने आंदोलन किया?

Options :

1. ❌ भूमिकर में वृद्धि
2. ❌ नहर कर लगाना
3. ✓ नहर के उपयोग पर जुर्माना
4. ❌ सिंचाई कर में वृद्धि
5. ❌ बनोपज के उपयोग पर प्रतिबंध

Question Number : 8 Question Id : 4169881964 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

During Civil Disobedience Movement, who of the following violated the Salt Law at Raipur on 15th April 1930?

1. Mahant Laxminarayna Das
2. Pt. Ravishankar Shukla
3. Seth Govind Das
4. Dwaraka Prasad Mishra

Select the correct answer.

Options :

1. ❌ 1, 2, 3
2. ❌ 2, 3, 4
3. ❌ 1, 2, 4
4. ❌ 1, 3, 4
5. ✓ 1, 2, 3, 4

Question Number : 8 Question Id : 4169881964 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

सविनय अवज्ञा आंदोलन के दौरान, निम्नलिखित में से किसने 15 अप्रैल 1930 को रायपुर में नमक कानून भंग किया?

1. महंत लक्ष्मीनारायण दास
2. पं. रविशंकर शुक्ल
3. सेठ गोविंद दास
4. द्वारका प्रसाद मिश्र

सही उत्तर चुनिये।

Options :

1. ✗ 1, 2, 3
2. ✗ 2, 3, 4
3. ✗ 1, 2, 4
4. ✗ 1, 3, 4
5. ✓ 1, 2, 3, 4

Question Number : 9 Question Id : 4169881965 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

From which district of Chhattisgarh does the Tropic of cancer pass?

Options :

1. ✗ Koriya, Surguja, Balrampur
2. ✗ Surguja, Jashpur, Balrampur
3. ✗ Koriya, Jashpur, Surajpur
4. ✓ Koriya, Surajpur, Balrampur
5. ✗ Jashpur, Surguja, Koriya

Question Number : 9 Question Id : 4169881965 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

छत्तीसगढ़ के किन जिलों से कर्क रेखा गुजरती है?

Options :

1. ✗ कोरिया, सरगुजा, बलरामपुर
2. ✗ सरगुजा, जशपुर, बलरामपुर
3. ✗ कोरिया, जशपुर, सूरजपुर
4. ✓ कोरिया, सूरजपुर, बलरामपुर
5. ✗ जशपुर, सरगुजा, कोरिया

Question Number : 10 Question Id : 4169881966 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

From which districts does the Indian standard time line pass?

Options :

1. ✗ Balrampur, Surguja, Raigarh
2. ✓ Janjgir-champa, Baloda Bazar, Mahasamund
3. ✗ Korba, Bilaspur, Koriya

4. ✘ Surajpur, Korba, Bilaspur
5. ✘ Balrampur, Jashpur, Surguja

Question Number : 10 Question Id : 4169881966 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

भारतीय मानक समय रेखा किन जिलों से गुजरती है?

Options :

1. ✘ बलरामपुर, सरगुजा, रायगढ़
2. ✓ जांजगीर-चांपा, बलौदाबाजार, महासमुन्द
3. ✘ कोरबा, बिलासपुर, कोरिया
4. ✘ सूरजपुर, कोरबा, बिलासपुर
5. ✘ बलरामपुर, जशपुर, सरगुजा

Question Number : 11 Question Id : 4169881967 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which districts of Chhattisgarh are attached with Madhya Pradesh?

Options :

1. ✘ Balrampur, Surguja, Koriya
2. ✘ Bilaspur, Mungeli, Korba
3. ✘ Koriya, Korba, Bilaspur
4. ✘ Rajnandgaon, Bilaspur, Bemetara
5. ✓ Mungeli, Bilaspur, Koriya

Question Number : 11 Question Id : 4169881967 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

मध्यप्रदेश के साथ छत्तीसगढ़ राज्य के कौन से जिले संलग्न हैं?

Options :

1. ✘ बलरामपुर, सरगुजा, कोरिया
2. ✘ बिलासपुर, मुंगेली, कोरबा
3. ✘ कोरिया, कोरबा, बिलासपुर
4. ✘ राजनांदगाव, बिलासपुर, बेमेतरा
5. ✓ मुंगेली, बिलासपुर, कोरिया

Question Number : 12 Question Id : 4169881968 Question Type : MCQ Display Question Number : Yes Single Line Question

What is the main mineral of Jashpur pat area?

Options :

1. ✘ Coal
2. ✘ Lime stone
3. ✓ Bauxite
4. ✘ Mica
5. ✘ None of these

Question Number : 12 Question Id : 4169881968 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

जशपुर पाट प्रदेश का प्रमुख खनिज क्या है?

Options :

1. ✘ कोयला
2. ✘ चूना पत्थर
3. ✓ बाक्साइट
4. ✘ अभक
5. ✘ इनमें से कोई नहीं

Question Number : 13 Question Id : 4169881969 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In which district is Chitva Dongri cave located?

Options :

1. ✘ Kanker
2. ✘ Gariyaband
3. ✓ Rajnandgaon
4. ✘ Kawardha
5. ✘ None of these

Question Number : 13 Question Id : 4169881969 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

चित्वा डोंगरी गुफाएं किस जिले में स्थित हैं?

Options :

1. ✘ कांकेर
2. ✘ गरियाबंद

3. ✓ राजनांदगांव
4. ✗ कवर्धा
5. ✗ इनमें से कोई नहीं

Question Number : 14 Question Id : 4169881970 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The order of soils (North to South) found in Bastar is:

Options :

1. ✓ Marhan, Tikra, Badi, Gabhar
2. ✗ Tikra, Marhan, Gabhar, Badi
3. ✗ Badi, Gabhar, Tikra, Marhan
4. ✗ Gabhar, Badi, Marhan, Tikra
5. ✗ Tikra, Gabhar, Badi, Marhan

Question Number : 14 Question Id : 4169881970 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

बस्तर में मिलने वाली मिट्टियों का क्रम (उत्तर से दक्षिण) क्या है?

Options :

1. ✓ मरहान, टिकरा, बाड़ी, गभार
2. ✗ टिकरा, मरहान, गभार, बाड़ी
3. ✗ बाड़ी, गभार, टिकरा, मरहान
4. ✗ गभार, बाड़ी, मरहान, टिकरा
5. ✗ टिकरा, गभार, बाड़ी, मरहान

Question Number : 15 Question Id : 4169881971 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Dalha Mountain is located in which district?

Options :

1. ✓ Janjgir - Champa
2. ✗ Surguja
3. ✗ Koriya
4. ✗ Dantewada
5. ✗ None of these

Question Number : 15 Question Id : 4169881971 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Options :

दलहाड़ किस जिले में स्थित है?

Options :

1. ✓ जांजगीर-चांपा

2. ✗ सरगुजा

3. ✗ कोरिया

4. ✗ दन्तेवाड़ा

5. ✗ इनमें से कोई नहीं

Question Number : 16 Question Id : 4169881972 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In Chhattisgarh state which district comes under the Rain shadow area?

Options :

1. ✗ Rajnandgaon

2. ✓ Kawardha

3. ✗ Korba

4. ✗ Bilaspur

5. ✗ None of these

Question Number : 16 Question Id : 4169881972 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

छत्तीसगढ़ राज्य में कौन सा जिला वृष्टिछाया प्रदेश के अंतर्गत आता है?

Options :

1. ✗ राजनांदगांव

2. ✓ कवर्धा

3. ✗ कोरबा

4. ✗ बिलासपुर

5. ✗ इनमें से कोई नहीं

Question Number : 17 Question Id : 4169881973 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In which year were Tibetans inhabited in Mainpat?

Options :

1. ✗ 1960

2. ✓ 1962

3. ✘ 1964
4. ✘ 1966
5. ✘ 1968

Question Number : 17 Question Id : 4169881973 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

मैनपाट में तिब्बतियों को किस वर्ष बसाया गया?

Options :

1. ✘ 1960
2. ✓ 1962
3. ✘ 1964
4. ✘ 1966
5. ✘ 1968

Question Number : 18 Question Id : 4169881974 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which pulse has been produced in maximum quantity in Chhattisgarh in the year 2013-2014?

Options :

1. ✓ Gram
2. ✘ Tuar
3. ✘ Urd
4. ✘ Lakh (Tiwda)
5. ✘ None of these

Question Number : 18 Question Id : 4169881974 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

छत्तीसगढ़ में किस दाल का उत्पादन वर्ष 2013-14 में सबसे अधिक मात्रा में हुआ था?

Options :

1. ✓ चना
2. ✘ तुअर
3. ✘ उड़द
4. ✘ लाख (तिवडा)
5. ✘ इनमें से कोई नहीं

Question Number : 19 Question Id : 4169881975 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which is the major oil seed crop in Chhattisgarh?

Options :

1. ✗ Groundnut
2. ✗ Ramtil
3. ✗ Til
4. ✓ Soyabean
5. ✗ None of these

Question Number : 19 Question Id : 4169881975 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

छत्तीसगढ़ में प्रमुख तिलहन फसल कौन सी है?

Options :

1. ✗ मूँगफली
2. ✗ रामतिल
3. ✗ तिल
4. ✓ सोयाबीन
5. ✗ इनमें से कोई नहीं

Question Number : 20 Question Id : 4169881976 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In which year was the average production per hectare of paddy maximum in Chhattisgarh state?

Options :

1. ✗ 2010-11
2. ✗ 2011-12
3. ✓ 2012-13
4. ✗ 2013-14
5. ✗ None of these

Question Number : 20 Question Id : 4169881976 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

छत्तीसगढ़ में धान का औसत उत्पादन प्रति हेक्टर सबसे अधिक किस वर्ष में हुआ था?

Options :

1. ✗ 2010-11
2. ✗ 2011-12
3. ✓ 2012-13
4. ✗ 2013-14
5. ✗ इनमें से कोई नहीं

Question Number : 21 Question Id : 4169881977 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which district of Chhattisgarh state has the lowest irrigation facilities available?

Options :

1. Narayanpur
2. Sukma
3. Dantewada
4. Bastar
5. None of these

Question Number : 21 Question Id : 4169881977 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

छत्तीसगढ़ के किस जिले में सिंचाई सुविधा सबसे कम है?

Options :

1. नारायणपुर
2. सुकमा
3. दन्तेवाड़ा
4. बस्तर
5. इनमें से कोई नहीं

Question Number : 22 Question Id : 4169881978 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What is NOT included in the jurisdiction of Education Committee of Janpad Panchayat?

Options :

1. Adult Education
2. Women and Child welfare
3. Drought
4. Communication
5. Health and Sanitation

Question Number : 22 Question Id : 4169881978 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

शिक्षा समिति - जनपद पंचायत के क्षेत्राधिकार में क्या समिलित नहीं हैं?

Options :

1. प्रौढ़ शिक्षा

2. ✗ महिला और शिशु कल्याण
3. ✗ दुर्भिक्ष
4. ✓ संचार
5. ✗ स्वास्थ्य और स्वच्छता

Question Number : 23 Question Id : 4169881979 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A member of Legislative Assembly, who is ex-officio member of Janpad Panchayat, may be nominated as ex-officio member in which committee of Janpad Panchayat?

Options :

1. ✗ Education Committee
2. ✗ Agriculture Committee
3. ✗ General Administration Committee
4. ✓ All of the above
5. ✗ None of the above

Question Number : 23 Question Id : 4169881979 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

एक विधायक, जो जनपद पंचायत का पदेन सदस्य है, जनपद पंचायत की किस समिति का पदेन सदस्य नामांकित किया जा सकता है?

Options :

1. ✗ शिक्षा समिति
2. ✗ कृषि समिति
3. ✗ सामान्य प्रशासन समिति
4. ✓ उपर्युक्त सभी
5. ✗ उपर्युक्त में से कोई नहीं

Question Number : 24 Question Id : 4169881980 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In which meeting of Gram Sabha, is the budget of Gram Panchayat being passed?

Options :

1. ✓ Ordinary meeting
2. ✗ Extraordinary meeting
3. ✗ Special meeting
4. ✗ Adjourned meeting

5. ✘ None of the above

Question Number : 24 Question Id : 4169881980 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

ग्राम सभा की किस बैठक में ग्राम पंचायत का बजट पारित किया जाता है?

Options :

1. ✓ साधारण बैठक
2. ✘ असाधारण बैठक
3. ✘ विशेष बैठक
4. ✘ स्थगित बैठक
5. ✘ उपर्युक्त में से कोई नहीं

Question Number : 25 Question Id : 4169881981 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If the election of Sarpanch is pending due to some reasons, who will act as Sarpanch?

Options :

1. ✘ Deputy Sarpanch
2. ✘ Senior most Panch
3. ✓ A Panch elected by the Gram Panchayat
4. ✘ A person nominated by collector
5. ✘ The post of Sarpanch will be vacant

Question Number : 25 Question Id : 4169881981 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

यदि सरपंच का चुनाव किन्हीं कारणों से लंबित है, तो सरपंच के रूप में कौन करेगा?

Options :

1. ✘ उप सरपंच
2. ✘ वरिष्ठतम पंच
3. ✓ ग्राम पंचायत द्वारा निर्वाचित एक पंच
4. ✘ कलेक्टर द्वारा नामित व्यक्ति
5. ✘ सरपंच का पद रिक्त रहेगा

Question Number : 26 Question Id : 4169881982 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Who gives the power to the local self-government?

Options :

1. ✘ Through law
2. ✘ Through state government
3. ✘ Through central government
4. ✘ Through President
5. ✓ None of the above

Question Number : 26 Question Id : 4169881982 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

स्थानीय स्वशासन की शक्ति किसके द्वारा प्रदत्त होती है?

Options :

1. ✘ कानून द्वारा
2. ✘ राज्य शासन द्वारा
3. ✘ केन्द्रीय शासन द्वारा
4. ✘ राष्ट्रपति द्वारा
5. ✓ उपर्युक्त में से कोई नहीं

Question Number : 27 Question Id : 4169881983 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The Directorate in the state Administration is:

Options :

1. ✘ policy making agency
2. ✘ statutory agency
3. ✘ constitutional agency
4. ✓ an executive agency
5. ✘ None of the above

Question Number : 27 Question Id : 4169881983 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

राज्य प्रशासन में निदेशालय क्या है?

Options :

1. ✘ नीति निर्माण अभिकरण
2. ✘ विधिक अभिकरण
3. ✘ संवैधानिक अभिकरण
4. ✓ कार्यकारी अभिकरण

5. ✘ उपर्युक्त में से कोई नहीं

Question Number : 28 Question Id : 4169881984 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Under which provision does the governor constitute the state finance commission to review the financial status of the Panchayat?

Options :

1. ✘ By the discretion of the Governor
2. ✘ Through law passed in the Legislative Assembly
3. ✓ Through Article 243(1) of Constitution of India
4. ✘ Through the motion passed in Rajya Sabha
5. ✘ None of the above

Question Number : 28 Question Id : 4169881984 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

किस प्रावधान के अंतर्गत राज्यपाल पंचायतों की वित्तीय स्थिति का पुनराविलोकन करने के लिये राज्यवित्त आयोग का गठन करता है?

Options :

1. ✘ राज्यपाल की स्वविवेकी शक्तियों द्वारा
2. ✘ विधानसभा में पारित कानून द्वारा
3. ✓ भारत के संविधान के अनुच्छेद 243 (1) के अंतर्गत
4. ✘ राज्यसभा में पारित प्रस्ताव द्वारा
5. ✘ उपर्युक्त में से कोई नहीं

Question Number : 29 Question Id : 4169881985 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which statement is NOT correct about the goals of 12th five year plan of Chhattisgarh state?

Options :

1. ✘ 4 percent annual average growth rate of Agriculture
2. ✓ 7.5 percent annual average growth rate of Industry
3. ✘ 9.5 percent annual average growth rate of Service Sector
4. ✘ 8 percent annual growth rate of Gross State Domestic Product
5. ✘ None of these

Question Number : 29 Question Id : 4169881985 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

छत्तीसगढ़ राज्य की 12वीं पचांवर्षीय योजना के लक्ष्यों के सम्बन्ध में कौन सा कथन सही नहीं है?

Options :

1. ✗ कृषि की आर्थिक वृद्धि दर 4 प्रतिशत औसतन वार्षिक
2. ✓ उद्योग की आर्थिक वृद्धि दर 7.5 प्रतिशत औसतन वार्षिक
3. ✗ सेवा क्षेत्र की आर्थिक वृद्धि दर 9.5 प्रतिशत औसतन वार्षिक
4. ✗ राज्य की सकल घरेलू उत्पाद की वार्षिक आर्थिक वृद्धि दर 8 प्रतिशत
5. ✗ इनमें से कोई नहीं

Question Number : 30 Question Id : 4169881986 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which state is NOT observed in 2015-16 year's budget of Chhattisgarh?

Options :

1. ✗ Budget deficit
2. ✓ Revenue deficit
3. ✗ Fiscal deficit
4. ✗ Primary deficit
5. ✗ None of these

Question Number : 30 Question Id : 4169881986 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

छत्तीसगढ़ के वर्ष 2015-16 के बजट में कौन सी स्थिति नहीं है?

Options :

1. ✗ बजट घाटा
2. ✓ राजस्व घाटा
3. ✗ राजकोषीय घाटा
4. ✗ प्राथमिक घाटा
5. ✗ इनमें से कोई नहीं

Question Number : 31 Question Id : 4169881987 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In Chhattisgarh state, "Prime Minister Jan-Dhan Yojana" is implemented from:

Options :

1. ✗ 15th August 2014
2. ✗ 28th August 2014

- 3. ✓ 28th August 2015
- 4. ✗ 15th August 2015
- 5. ✗ None of these

Question Number : 31 Question Id : 4169881987 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

“प्रधानमंत्री जन-धन योजना” छत्तीसगढ़ में कब से लागू की गयी?

Options :

- 1. ✗ 15 अगस्त 2014 से
- 2. ✗ 28 अगस्त 2014 से
- 3. ✓ 28 अगस्त 2015 से
- 4. ✗ 15 अगस्त 2015 से
- 5. ✗ इनमें से कोई नहीं

Question Number : 32 Question Id : 4169881988 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What is the production capacity of ‘Mini - Mata Hasdeo - Bango Hydro Power Electricity Project’?

Options :

- 1. ✗ 500 Megawatt
- 2. ✓ 120 Megawatt
- 3. ✗ 138 Megawatt
- 4. ✗ 150 Megawatt
- 5. ✗ None of these

Question Number : 32 Question Id : 4169881988 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

‘मिनीमाता हसदेव - बांगो जल विद्युत परियोजना’ की उत्पादन-क्षमता क्या है?

Options :

- 1. ✗ 500 मेगावाट
- 2. ✓ 120 मेगावाट
- 3. ✗ 138 मेगावाट
- 4. ✗ 150 मेगावाट
- 5. ✗ इनमें से कोई नहीं

Question Number : 33 Question Id : 4169881989 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which is NOT included in plan expenditure of Chhattisgarh state?

Options :

1. ✗ Revenue expenditure
2. ✗ Capital expenditure
3. ✓ Interest payment
4. ✗ Loan and advances
5. ✗ None of these

Question Number : 33 Question Id : 4169881989 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

छत्तीसगढ़ राज्य के आयोजना व्यय में किसे शामिल नहीं किया गया है?

Options :

1. ✗ राजस्व व्यय
2. ✗ पूंजीगत व्यय
3. ✓ ब्याज भुगतान
4. ✗ कृषि एवं अग्रिम
5. ✗ इनमें से कोई नहीं

Question Number : 34 Question Id : 4169881990 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What is the percentage of rural electricity consumers in total electricity consumers in Chhattisgarh state?

Options :

1. ✗ 50 percent
2. ✗ 60 percent
3. ✓ 66 percent
4. ✗ 68 percent
5. ✗ None of these

Question Number : 34 Question Id : 4169881990 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

छत्तीसगढ़ में ग्रामीण विद्युत उपभोक्ताओं का प्रतिशत कुल उपभोक्ताओं में क्या है?

Options :

1. ✗ 50 प्रतिशत
2. ✗ 60 प्रतिशत

- 3. ✓ 66 प्रतिशत
- 4. ✗ 68 प्रतिशत
- 5. ✗ इनमें से कोई नहीं

Question Number : 35 Question Id : 4169881991 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which is NOT included as principal goal of Chhattisgarh Industrial Policy 2014-19?

Options :

- 1. ✗ To induce manufacturing sector in priority under “Make in Chhattisgarh”
- 2. ✗ To induce original residents of the state for self-entrepreneurship
- 3. ✓ To induce core sector
- 4. ✗ To fix certainty of industry participation in skill development of local people
- 5. ✗ None of these

Question Number : 35 Question Id : 4169881991 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

छत्तीसगढ़ की औद्योगिक नीति 2014-19 के प्रमुख उद्देश्य में क्या शामिल नहीं हैं?

Options :

- 1. ✗ विनिर्माण क्षेत्र को “मेक इन छत्तीसगढ़” में प्राथमिकता से प्रोत्साहित करना
- 2. ✗ राज्य के मूल निवासियों को स्व-उद्यम की ओर प्रेरित करना
- 3. ✓ कोर सेक्टर को प्रोत्साहित करना
- 4. ✗ स्थानीय नागरिकों के कौशल विकास में उद्योगों की भागीदारी को सुनिश्चित करना
- 5. ✗ इनमें से कोई नहीं

Question Number : 36 Question Id : 4169881992 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In which place of Chhattisgarh are the clusters NOT formed under Pt. Shyama Prasad Mukherji National Rurban Mission?

Options :

- 1. ✗ Murmunda Rajnandgaon District
- 2. ✗ Loharsi Dhamatari District
- 3. ✗ Madpal Baster District
- 4. ✓ Dharsinwa District Raipur
- 5. ✗ None of these

Question Number : 36 Question Id : 4169881992 Question Type : MCQ Display Question Number Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

पं. श्यामा प्रसाद मुखर्जी राष्ट्रीय रूबन मिशन के अंतर्गत छत्तीसगढ़ में क्लस्टर कहाँ नहीं बनाये जायेंगे?

Options :

1. ✗ मुरमुंदा राजनांदगांव जिला
2. ✗ लोहरसी धमतरी जिला
3. ✗ माडपाल बस्तर जिला
4. ✓ धरसींवा रायपुर जिला
5. ✗ इनमें से कोई नहीं

Question Number : 37 Question Id : 4169881993 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which tax relief is NOT granted to eligible industries under Automotive Industry Policy in Chhattisgarh state?

Options :

1. ✗ Relief in Central Sales Tax
2. ✗ Relief in Entry Tax Payment
3. ✗ Relief in Electric Fee
4. ✓ State Commercial Tax
5. ✗ None of these

Question Number : 37 Question Id : 4169881993 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

छत्तीसगढ़ में आटोमोटिव उद्योग नीति के अंतर्गत पात्र उद्योगों को कौन सी छूट नहीं दी गयी है?

Options :

1. ✗ केन्द्रीय विक्रय कर में छूट
2. ✗ प्रवेश कर भुगतान में छूट
3. ✗ विद्युत शुल्क छूट
4. ✓ राज्य वाणिज्यिक कर
5. ✗ इनमें से कोई नहीं

Question Number : 38 Question Id : 4169881994 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which sportsperson of Chhattisgarh was selected for Rio Olympics?

Options :

1. ✗ Saba Anjum

2. ✗ Renu Sahu
3. ✗ Rajesh Chauhan
4. ✓ Renuka Yadav
5. ✗ None of these

Question Number : 38 Question Id : 4169881994 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

रियो ओलंपिक के लिए छत्तीसगढ़ के किस खिलाड़ी का चयन हुआ था?

Options :

1. ✗ सबा अंजुम
2. ✗ रेणु साहू
3. ✗ राजेश चौहान
4. ✓ रेणुका यादव
5. ✗ इनमें से कोई नहीं

Question Number : 39 Question Id : 4169881995 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

‘ICNIP’ is concerned with:

Options :

1. ✗ Primary health
2. ✗ School education
3. ✓ Aanganbadi centres
4. ✗ Tribal welfare
5. ✗ None of these

Question Number : 39 Question Id : 4169881995 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

‘ICNIP’ (इसनिप) किस से संबंधित है?

Options :

1. ✗ प्राथमिक स्वास्थ्य
2. ✗ स्कूल शिक्षा
3. ✓ आंगनबाड़ी केन्द्र
4. ✗ आदिम जाति कल्याण
5. ✗ इनमें से कोई नहीं

Question Number : 40 Question Id : 4169881996 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following has been given the status of Scheduled tribe recently in Chhattisgarh?

Options :

1. ✘ Korwa
2. ✘ Orao
3. ✘ Gond
4. ✓ Bhuiyan
5. ✘ None of these

Question Number : 40 Question Id : 4169881996 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

छत्तीसगढ़ में निम्न में से किसे हाल ही में अनुसूचित जनजाति का दर्जा दिया गया है?

Options :

1. ✘ कोरवा
2. ✘ ओरांव
3. ✘ गोंड
4. ✓ भुइयां
5. ✘ इनमें से कोई नहीं

Question Number : 41 Question Id : 4169881997 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What is the name of the programme operated in state to reduce the mother – infants' death rate?

Options :

1. ✓ Janani Suraksha Yojna
2. ✘ Shishu Kalyan Yojna
3. ✘ Matritva Vikas Yojna
4. ✘ Janani Aapat Yojna
5. ✘ None of these

Question Number : 41 Question Id : 4169881997 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

राज्य में मातृ-शिशु मृत्यु दर को कम करने के लिए संचालित योजना का क्या नाम है?

Options :

1. ✓ जननी सुरक्षा योजना

2. ✘ शिशु कल्याण योजना
3. ✘ मातृत्व विकास योजना
4. ✘ जननी आपात योजना
5. ✘ इनमें से कोई नहीं

Question Number : 42 Question Id : 4169881998 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

How much amount was proposed in state budget of 2015-16 for B.P.L. single bulb connection?

Options :

1. ✘ ₹ 155.60 Crore
2. ✓ ₹ 269 Crore
3. ✘ ₹ 200 Crore
4. ✘ ₹ 300 Crore
5. ✘ None of these

Question Number : 42 Question Id : 4169881998 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

वर्ष 2015-16 के राज्य बजट में बी.पी.एल एकलबत्ती कनेक्शन के लिए कितनी राशि का प्रावधान किया गया था?

Options :

1. ✘ ₹ 155.60 करोड़
2. ✓ ₹ 269 करोड़
3. ✘ ₹ 200 करोड़
4. ✘ ₹ 300 करोड़
5. ✘ इनमें से कोई नहीं

Question Number : 43 Question Id : 4169881999 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Who observes fast in “Kamar Chhat” (Halashashthi)?

Options :

1. ✘ Unmarried girls
2. ✘ Married women
3. ✓ Mothers, who have children
4. ✘ Widow women
5. ✘ None of these

Question Number : 43 Question Id : 4169881999 Question Type : MCQ Display Question Number : Yes Single Line Question

“कमर छट” (हलषष्ठी) ब्रत कौन रखती है?

Options :

1. ✗ कुंवारी कन्या
2. ✗ सुहागिन स्त्रियाँ
3. ✓ संतानवती माताएँ
4. ✗ विधवा महिलाएँ
5. ✗ इनमें से कोई नहीं

Question Number : 44 Question Id : 4169882000 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In which festival of Chhattisgarh do people perform marriage ceremony of lord “Gauri-Gaura”?

Options :

1. ✗ Tija
2. ✗ Dashahara
3. ✓ Dipawali
4. ✗ Holi
5. ✗ None of these

Question Number : 44 Question Id : 4169882000 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

छत्तीसगढ़ के किस त्योहार में “गौरी-गौरा” विवाहोत्सव मनाते हैं?

Options :

1. ✗ तीजा
2. ✗ दशहरा
3. ✓ दीपावली
4. ✗ होली
5. ✗ इनमें से कोई नहीं

Question Number : 45 Question Id : 4169882001 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which dance is performed by Muria tribe?

Options :

1. ✗ Sarhul dance

2. ✗ Koldahaka dance
3. ✓ Kakasad dance
4. ✗ Bilama dance
5. ✗ None of these

Question Number : 45 Question Id : 4169882001 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

मुरिया जनजाति कौन सा नृत्य करती है?

Options :

1. ✗ सरहुल नृत्य
2. ✗ कोलदहका नृत्य
3. ✓ काकसाड नृत्य
4. ✗ बिलमा नृत्य
5. ✗ इनमें से कोई नहीं

Question Number : 46 Question Id : 4169882002 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Out of the following, which is the “Kathanak” (Narrative) of “Basdev Gayan”?

Options :

1. ✗ Lorik Chanda
2. ✗ Pandav
3. ✓ Shravan
4. ✗ Dharmesh
5. ✗ None of these

Question Number : 46 Question Id : 4169882002 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

“बसदेवा गायन” का कथानक निम्नांकित में से कौन सा है?

Options :

1. ✗ लोरिक चन्दा
2. ✗ पाण्डव
3. ✓ श्रवण
4. ✗ धर्मेश
5. ✗ इनमें से कोई नहीं

Question Number : 47 Question Id : 4169882003 Question Type : MCQ Display Question Number : Yes Single Line Question

Who is the author of the book “*Ramashwamegh*”?

Options :

1. ✗ Bhaskar Bhatt
2. ✓ Rewaram Baboo
3. ✗ Gangadhar Mishra
4. ✗ Gopal Chandra
5. ✗ None of these

Question Number : 47 Question Id : 4169882003 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

“रामाश्वमेघ” के रचयिता कौन हैं?

Options :

1. ✗ भास्कर भट्ट
2. ✓ रेवाराम बाबू
3. ✗ गंगाधर मिश्र
4. ✗ गोपाल चन्द्र
5. ✗ इनमें से कोई नहीं

Question Number : 48 Question Id : 4169882004 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

When is the Goncha festival celebrated in Bastar?

Options :

1. ✓ Aasad month
2. ✗ Bhado month
3. ✗ Kartik month
4. ✗ Falgun month
5. ✗ None of these

Question Number : 48 Question Id : 4169882004 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

बस्तर में गोंचा पर्व कब मनाते हैं?

Options :

1. ✓ आषाढ़ मास
2. ✗ भादो मास

3. ✘ कार्तिक मास
4. ✘ फाल्गुन मास
5. ✘ इनमें से कोई नहीं

Question Number : 49 Question Id : 4169882005 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which is the craft item made by “Jhara” artisans?

Options :

1. ✓ Bell metal
2. ✘ Bamboo work
3. ✘ Terracotta
4. ✘ Wooden art
5. ✘ None of these

Question Number : 49 Question Id : 4169882005 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

“झारा” शिल्पकारों द्वारा निर्मित शिल्प कौन सी है?

Options :

1. ✓ कांस्य शिल्प
2. ✘ बांस बर्तन
3. ✘ मृण्य मूर्ति
4. ✘ काष्ठ शिल्प
5. ✘ इनमें से कोई नहीं

Question Number : 50 Question Id : 4169882006 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What is the contribution of beneficiary of Chhattisgarh in “Prime-Minister Krishi Irrigation Yojana”?

Options :

1. ✘ 50 percent
2. ✓ 40 percent
3. ✘ 30 percent
4. ✘ 25 percent
5. ✘ None of these

Question Number : 50 Question Id : 4169882006 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

“प्रधानमंत्री कृषिसिंचार्झ योजना” में हितग्राही का योगदान छत्तीसगढ़ राज्य में कितना है?

Options :

1. ✗ 50 प्रतिशत
2. ✓ 40 प्रतिशत
3. ✗ 30 प्रतिशत
4. ✗ 25 प्रतिशत
5. ✗ इनमें से कोई नहीं

Mechanical/Automobile Engineering

Group Maximum Duration : 120
Group Minimum Duration : 120
Revisit allowed for view? : No
Revisit allowed for edit? : No

Mechanical/Automobile Engineering

Mandatory or Optional: Mandatory
Display Number Panel: Yes
Group All Questions: No

Question Number : 51 Question Id : 4169882007 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What is the degree of freedom at critical point of water (pure substance)?

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 0
4. ✗ 3
5. ✗ 4

Question Number : 51 Question Id : 4169882007 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What is the degree of freedom at critical point of water (pure substance)?

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 0

4. ✘ 3
5. ✘ 4

Question Number : 52 Question Id : 4169882008 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following statements is true for throttling process?

Options :

1. ✓ Enthalpy remains constant during throttling process.
2. ✘ Entropy remains constant during throttling process.
3. ✘ Pressure remains constant during throttling process.
4. ✘ It is a reversible process.
5. ✘ It is an isentropic process.

Question Number : 52 Question Id : 4169882008 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following statements is true for throttling process?

Options :

1. ✓ Enthalpy remains constant during throttling process.
2. ✘ Entropy remains constant during throttling process.
3. ✘ Pressure remains constant during throttling process.
4. ✘ It is a reversible process.
5. ✘ It is an isentropic process.

Question Number : 53 Question Id : 4169882009 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Entropy generation in closed system is:

Options :

1. ✘ equal to zero for irreversible process
2. ✘ less than zero for irreversible process
3. ✘ greater than zero for reversible process
4. ✓ greater than zero for irreversible process
5. ✘ less than zero for reversible process

Question Number : 53 Question Id : 4169882009 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Entropy generation in closed system is:

Options :

1. ✗ equal to zero for irreversible process
2. ✗ less than zero for irreversible process
3. ✗ greater than zero for reversible process
4. ✓ greater than zero for irreversible process
5. ✗ less than zero for reversible process

Question Number : 54 Question Id : 4169882010 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following are intensive properties?

- a) Density
- b) Pressure
- c) Energy
- d) Enthalpy
- e) Temperature

Options :

1. ✗ a, b and d
2. ✓ a, b and e
3. ✗ a, c, d and e
4. ✗ b, c and d
5. ✗ a, b, c and d

Question Number : 54 Question Id : 4169882010 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following are intensive properties?

- a) Density
- b) Pressure
- c) Energy
- d) Enthalpy
- e) Temperature

Options :

1. ✗ a, b and d
2. ✓ a, b and e
3. ✗ a, c, d and e
4. ✗ b, c and d
5. ✗ a, b, c and d

Question Number : 55 Question Id : 4169882011 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In the polytropic process equation, $pV^n = \text{constant}$. If $n = 0$, the process is known as:

Options :

1. Constant volume process
2. Constant temperature process
3. Isentropic process
4. Constant pressure process
5. Isenthalpic process

Question Number : 55 Question Id : 4169882011 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In the polytropic process equation, $pV^n = \text{constant}$. If $n = 0$, the process is known as:

Options :

1. Constant volume process
2. Constant temperature process
3. Isentropic process
4. Constant pressure process
5. Isenthalpic process

Question Number : 56 Question Id : 4169882012 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A Carnot engine receives 1200 kJ and 3600 kJ heat from reservoirs which are at 600 K and x K respectively, and rejects heat of 3200 kJ to the sink which is at 400 K. Calculate x in Celsius.

Options :

1. 800
2. 600
3. 427
4. 327
5. 227

Question Number : 56 Question Id : 4169882012 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A Carnot engine receives 1200 kJ and 3600 kJ heat from reservoirs which are at 600 K and x K respectively, and rejects heat of 3200 kJ to the sink which is at 400 K. Calculate x in Celsius.

Options :

1. 800
2. 600
3. 427
4. 327

Question Number : 57 Question Id : 4169882013 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The measurement of elevated temperature is generally above 500 °C. The instrument used for this purpose is known as:

Options :

1. ✘ Manometer
2. ✓ Pyrometer
3. ✘ Potentiometer
4. ✘ Tachometer
5. ✘ Rota meter

Question Number : 57 Question Id : 4169882013 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The measurement of elevated temperature is generally above 500 °C. The instrument used for this purpose is known as:

Options :

1. ✘ Manometer
2. ✓ Pyrometer
3. ✘ Potentiometer
4. ✘ Tachometer
5. ✘ Rota meter

Question Number : 58 Question Id : 4169882014 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

There is no work transfer associated with:

Options :

1. ✘ adiabatic process
2. ✘ isothermal process
3. ✓ free expansion process
4. ✘ polytropic process
5. ✘ isobaric process

Question Number : 58 Question Id : 4169882014 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

There is no work transfer associated with:

Options :

1. ✘ adiabatic process
2. ✘ isothermal process

- 3. free expansion process
- 4. polytropic process
- 5. isobaric process

Question Number : 59 Question Id : 4169882015 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

For backward curved vane of centrifugal pump:

Options :

- 1. ideal head developed decreases linearly with increase in flow rate.
- 2. ideal head developed increases linearly with increase in flow rate.
- 3. ideal head developed remains constant with increase in flow rate.
- 4. ideal head developed increases exponentially with increase in flow rate.
- 5. ideal head developed decreases exponentially with increase in flow rate.

Question Number : 59 Question Id : 4169882015 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

For backward curved vane of centrifugal pump:

Options :

- 1. ideal head developed decreases linearly with increase in flow rate.
- 2. ideal head developed increases linearly with increase in flow rate.
- 3. ideal head developed remains constant with increase in flow rate.
- 4. ideal head developed increases exponentially with increase in flow rate.
- 5. ideal head developed decreases exponentially with increase in flow rate.

Question Number : 60 Question Id : 4169882016 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If reheating is done in Rankine cycle, then:

Options :

- 1. work output decreases
- 2. pump work increases
- 3. heat rejection remains constant
- 4. dryness fraction increases
- 5. heat rejection decreases

Question Number : 60 Question Id : 4169882016 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If reheating is done in Rankine cycle, then:

Options :

1. work output decreases
2. pump work increases
3. heat rejection remains constant
4. dryness fraction increases
5. heat rejection decreases

Question Number : 61 Question Id : 4169882017 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In single stage reciprocating compressor, work done on air will be minimum when compression is:

Options :

1. isothermal
2. isochoric
3. polytropic
4. adiabatic
5. isentropic

Question Number : 61 Question Id : 4169882017 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In single stage reciprocating compressor, work done on air will be minimum when compression is:

Options :

1. isothermal
2. isochoric
3. polytropic
4. adiabatic
5. isentropic

Question Number : 62 Question Id : 4169882018 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In two stage reciprocating compressor, suction and delivery pressure are 1 bar and 9 bar respectively. What will be the inter cooling pressure for maximum efficiency?

Options :

1. 2 bar
2. 3 bar
3. 4.5 bar
4. 5 bar

5. 3.5 bar

Question Number : 62 Question Id : 4169882018 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In two stage reciprocating compressor, suction and delivery pressure are 1 bar and 9 bar respectively. What will be the inter cooling pressure for maximum efficiency?

Options :

1. 2 bar
2. 3 bar
3. 4.5 bar
4. 5 bar
5. 3.5 bar

Question Number : 63 Question Id : 4169882019 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following cycle is used in aircraft?

Options :

1. Brayton cycle
2. Rankine cycle
3. Atkinsion cycle
4. Stirling cycle
5. Carnot cycle

Question Number : 63 Question Id : 4169882019 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following cycle is used in aircraft?

Options :

1. Brayton cycle
2. Rankine cycle
3. Atkinsion cycle
4. Stirling cycle
5. Carnot cycle

Question Number : 64 Question Id : 4169882020 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If T is the total item consumed per year, P is the procurement cost per order and A is the annual inventory carrying cost per item, then the most Economic Order Quantity (EOQ) is given by:

Options :

1. ✓ $\sqrt{\frac{2TP}{A}}$

2. ✗ $\sqrt{\frac{2T}{AP}}$

3. ✗ $\frac{AP}{\sqrt{2T}}$

4. ✗ $\frac{\sqrt{2AP}}{T}$

5. ✗ $\frac{2TP}{\sqrt{A}}$

Question Number : 64 Question Id : 4169882020 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If T is the total item consumed per year, P is the procurement cost per order and A is the annual inventory carrying cost per item, then the most Economic Order Quantity (EOQ) is given by:

Options :

1. ✓ $\sqrt{\frac{2TP}{A}}$

2. ✗ $\sqrt{\frac{2T}{AP}}$

3. ✗ $\frac{AP}{\sqrt{2T}}$

4. ✗ $\frac{\sqrt{2AP}}{T}$

5. ✗ $\frac{2TP}{\sqrt{A}}$

Question Number : 65 Question Id : 4169882021 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following is correct about Rateau turbine?

Options :

1. ✗ Rateau turbine is a simple turbine.

2. ✗ Rateau turbine is velocity compounded.

3. ✓ Rateau turbine is pressure compounded.

4. ✘ Rateau turbine is both, pressure and velocity compounded.
5. ✘ Rateau turbine is 50% reaction turbine.

Question Number : 65 Question Id : 4169882021 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following is correct about Rateau turbine?

Options :

1. ✘ Rateau turbine is a simple turbine.
2. ✘ Rateau turbine is velocity compounded.
3. ✓ Rateau turbine is pressure compounded.
4. ✘ Rateau turbine is both, pressure and velocity compounded.
5. ✘ Rateau turbine is 50% reaction turbine.

Question Number : 66 Question Id : 4169882022 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If the boiler pressure increases at fixed maximum temperature, what will be the impact on work done for Rankine cycle?

Options :

1. ✘ Increases linearly
2. ✘ Decreases linearly
3. ✘ Increases exponentially
4. ✘ Decreases exponentially
5. ✓ Almost remains constant

Question Number : 66 Question Id : 4169882022 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If the boiler pressure increases at fixed maximum temperature, what will be the impact on work done for Rankine cycle?

Options :

1. ✘ Increases linearly
2. ✘ Decreases linearly
3. ✘ Increases exponentially
4. ✘ Decreases exponentially
5. ✓ Almost remains constant

Question Number : 67 Question Id : 4169882023 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Ignition quality of diesel fuel is indicated by its:

Options :

1. octane number
2. cetane number
3. flash point
4. fire point
5. aromatic number

Question Number : 67 Question Id : 4169882023 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Ignition quality of diesel fuel is indicated by its:

Options :

1. octane number
2. cetane number
3. flash point
4. fire point
5. aromatic number

Question Number : 68 Question Id : 4169882024 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In brass, copper is alloyed with:

Options :

1. tin
2. lead
3. zinc
4. nickel
5. duralumin

Question Number : 68 Question Id : 4169882024 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In brass, copper is alloyed with:

Options :

1. tin
2. lead
3. zinc
4. nickel
5. duralumin

Question Number : 69 Question Id : 4169882025 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In Vapour Compression Refrigeration System (VCRS), throttle valve is used in place of isentropic expander because:

1. ✗ throttling process in throttle valve is reversible.
2. ✗ throttle valve improves the refrigeration effect.
3. ✗ positive work in throttle valve is very large.
4. ✗ it reduces the compressor work.
5. ✓ it leads to cost reduction.

Question Number : 69 Question Id : 4169882025 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In Vapour Compression Refrigeration System (VCRS), throttle valve is used in place of isentropic expander because:

Options :

1. ✗ throttling process in throttle valve is reversible.
2. ✗ throttle valve improves the refrigeration effect.
3. ✗ positive work in throttle valve is very large.
4. ✗ it reduces the compressor work.
5. ✓ it leads to cost reduction.

Question Number : 70 Question Id : 4169882026 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following is a general physical property of metals?

Options :

1. ✗ Creep
2. ✓ Density
3. ✗ Magnetic flux
4. ✗ Brittleness
5. ✗ Thermal stability

Question Number : 70 Question Id : 4169882026 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following is a general physical property of metals?

Options :

1. ✗ Creep
2. ✓ Density
3. ✗ Magnetic flux
4. ✗ Brittleness

5. * Thermal stability

Question Number : 71 Question Id : 4169882027 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following is eco-friendly refrigerant?

Options :

1. * R-11
2. ✓ R-718
3. * R-12
4. * R-22
5. * R-110

Question Number : 71 Question Id : 4169882027 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following is eco-friendly refrigerant?

Options :

1. * R-11
2. ✓ R-718
3. * R-12
4. * R-22
5. * R-110

Question Number : 72 Question Id : 4169882028 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The enthalpies at the beginning of compression, at the end of compression and at the end of condensation are respectively 185 kJ/kg, 210 kJ/kg and 85 kJ/kg. What is the COP of VCRS?

Options :

1. * 0.25
2. * 5.4
3. ✓ 4
4. * 1.35
5. * 5

Question Number : 72 Question Id : 4169882028 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The enthalpies at the beginning of compression, at the end of compression and at the end of condensation are respectively 185 kJ/kg, 210 kJ/kg and 85 kJ/kg. What is the COP of VCRS?

Options :

1. * 0.25
2. * 5.4

- 3. 4
- 4. 1.35
- 5. 5

Question Number : 73 Question Id : 4169882029 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Refrigerant entering the compressor of Vapour Compression Refrigeration System is:

Options :

- 1. superheated to reduce the work input of compressor.
- 2. superheated to reduce the refrigerating effect.
- 3. superheated to ensure dry compression of refrigerant.
- 4. subcooled to reduce the work input of compressor.
- 5. subcooled to reduce the refrigerating effect.

Question Number : 73 Question Id : 4169882029 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Refrigerant entering the compressor of Vapour Compression Refrigeration System is:

Options :

- 1. superheated to reduce the work input of compressor.
- 2. superheated to reduce the refrigerating effect.
- 3. superheated to ensure dry compression of refrigerant.
- 4. subcooled to reduce the work input of compressor.
- 5. subcooled to reduce the refrigerating effect.

Question Number : 74 Question Id : 4169882030 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In vapour absorption refrigeration, heat is rejected in:

Options :

- 1. condenser only
- 2. generator only
- 3. absorber only
- 4. condenser and absorber
- 5. generator and absorber

Question Number : 74 Question Id : 4169882030 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In vapour absorption refrigeration, heat is rejected in:

Options :

1. ✘ condenser only
2. ✘ generator only
3. ✘ absorber only
4. ✓ condenser and absorber
5. ✘ generator and absorber

Question Number : 75 Question Id : 4169882031 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The effective temperature is a measure of combined effects of:

Options :

1. ✘ dry bulb temperature and relative humidity
2. ✘ dry bulb temperature and air motion
3. ✘ wet bulb temperature and air motion
4. ✘ wet bulb temperature and relative humidity
5. ✓ dry bulb temperature, relative humidity and air motion

Question Number : 75 Question Id : 4169882031 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The effective temperature is a measure of combined effects of:

Options :

1. ✘ dry bulb temperature and relative humidity
2. ✘ dry bulb temperature and air motion
3. ✘ wet bulb temperature and air motion
4. ✘ wet bulb temperature and relative humidity
5. ✓ dry bulb temperature, relative humidity and air motion

Question Number : 76 Question Id : 4169882032 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What is the use of dip-stick?

Options :

1. ✘ To measure weight
2. ✘ To measure diameter
3. ✘ To measure speed
4. ✓ To check oil level

5. To clean holes

Question Number : 76 Question Id : 4169882032 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What is the use of dip-stick?

Options :

1. To measure weight
2. To measure diameter
3. To measure speed
4. To check oil level
5. To clean holes

Question Number : 77 Question Id : 4169882033 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Air at dry bulb temperature of 35°C and dew point temperature of 25°C passes through an air washer whose temperature is maintained at 20°C . What is the nature of the process?

Options :

1. Cooling humidification
2. Sensible cooling
3. Heating and dehumidification
4. Heating and humidification
5. Cooling and dehumidification

Question Number : 77 Question Id : 4169882033 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Air at dry bulb temperature of 35°C and dew point temperature of 25°C passes through an air washer whose temperature is maintained at 20°C . What is the nature of the process?

Options :

1. Cooling humidification
2. Sensible cooling
3. Heating and dehumidification
4. Heating and humidification
5. Cooling and dehumidification

Question Number : 78 Question Id : 4169882034 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The cubic capacity of a four stroke over-square S.I. engine is 245 cc. The clearance volume is 27.2 cc. The compression ratio of the engine is about:

Options :

1. ✗ 7.8
2. ✗ 6.5
3. ✗ 9
4. ✓ 10
5. ✗ 12.9

Question Number : 78 Question Id : 4169882034 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The cubic capacity of a four stroke over-square S.I. engine is 245 cc. The clearance volume is 27.2 cc. The compression ratio of the engine is about:

Options :

1. ✗ 7.8
2. ✗ 6.5
3. ✗ 9
4. ✓ 10
5. ✗ 12.9

Question Number : 79 Question Id : 4169882035 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What is the normal range of compression ratio for diesel cycle?

Options :

1. ✗ 2 to 4
2. ✗ 4 to 6
3. ✓ 16 to 20
4. ✗ 6 to 10
5. ✗ 22 to 26

Question Number : 79 Question Id : 4169882035 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What is the normal range of compression ratio for diesel cycle?

Options :

1. ✗ 2 to 4
2. ✗ 4 to 6
3. ✓ 16 to 20
4. ✗ 6 to 10
5. ✗ 22 to 26

Question Number : 80 Question Id : 4169882036 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

For the same compression ratio and heat rejection, choose the correct relationship from the following.

Options :

1. ✗ Efficiency Diesel > Efficiency Otto > Efficiency Dual
2. ✗ Efficiency Dual > Efficiency Diesel > Efficiency Otto
3. ✗ Efficiency Otto > Efficiency Diesel > Efficiency Dual
4. ✗ Efficiency Diesel > Efficiency Dual > Efficiency Otto
5. ✓ Efficiency Otto > Efficiency Dual > Efficiency Diesel

Question Number : 80 Question Id : 4169882036 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

For the same compression ratio and heat rejection, choose the correct relationship from the following.

Options :

1. ✗ Efficiency Diesel > Efficiency Otto > Efficiency Dual
2. ✗ Efficiency Dual > Efficiency Diesel > Efficiency Otto
3. ✗ Efficiency Otto > Efficiency Diesel > Efficiency Dual
4. ✗ Efficiency Diesel > Efficiency Dual > Efficiency Otto
5. ✓ Efficiency Otto > Efficiency Dual > Efficiency Diesel

Question Number : 81 Question Id : 4169882037 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following ideal cycles has the same efficiency as Stirling cycle?

Options :

1. ✗ Diesel cycle
2. ✗ Otto cycle
3. ✗ Joule cycle
4. ✓ Carnot cycle
5. ✗ Dual cycle

Question Number : 81 Question Id : 4169882037 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following ideal cycles has the same efficiency as Stirling cycle?

Options :

1. ✗ Diesel cycle
2. ✗ Otto cycle
3. ✗ Joule cycle



4. Carnot cycle

5. Dual cycle

Question Number : 82 Question Id : 4169882038 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A 4-stroke diesel engine, when running at 1500 rpm has a duration of 2 mili-seconds. What is the corresponding duration of the crank angle, in degrees?

Options :

1. 18°

2. 9°

3. 38°

4. 15°

5. 20°

Question Number : 82 Question Id : 4169882038 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A 4-stroke diesel engine, when running at 1500 rpm has a duration of 2 mili-seconds. What is the corresponding duration of the crank angle, in degrees?

Options :

1. 18°

2. 9°

3. 38°

4. 15°

5. 20°

Question Number : 83 Question Id : 4169882039 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The two references used for Cetane rating are:

Options :

1. cetane and iso-octane

2. cetane and tetraethyl lead

3. cetane and n-heptane

4. cetane and alpha-methyl naphthalene

5. iso-octane and n-heptane

Question Number : 83 Question Id : 4169882039 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The two references used for Cetane rating are:

Options :

1. cetane and iso-octane
2. cetane and tetraethyl lead
3. cetane and n-heptane
4. cetane and alpha-methyl naphthalene
5. iso-octane and n-heptane

Question Number : 84 Question Id : 4169882040 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The tendency of knocking in CI engine is reduced by:

Options :

1. high self-ignition temperature of fuel
2. decrease in cooling water temperature
3. short ignition lag of the fuel
4. decrease in engine cylinder diameter
5. low compression ratio

Question Number : 84 Question Id : 4169882040 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The tendency of knocking in CI engine is reduced by:

Options :

1. high self-ignition temperature of fuel
2. decrease in cooling water temperature
3. short ignition lag of the fuel
4. decrease in engine cylinder diameter
5. low compression ratio

Question Number : 85 Question Id : 4169882041 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What are the types of supercharger?

Options :

1. Gear and Vane type
2. Root and Reciprocating type
3. Reciprocating and Centrifugal type
4. Gear, Vane and Reciprocating type
5. Centrifugal, Root and Vane type

Question Number : 85 Question Id : 4169882041 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What are the types of supercharger?

Options :

1. Gear and Vane type
2. Root and Reciprocating type
3. Reciprocating and Centrifugal type
4. Gear, Vane and Reciprocating type
5. Centrifugal, Root and Vane type

Question Number : 86 Question Id : 4169882042 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A centrifugal pump driven by a directly coupled 1.5 kW motor of 1150 rpm speed is proposed to be connected to another motor of 2300 rpm speed. What should be the power of the motor?

Options :

1. 8 kW
2. 12 kW
3. 16 kW
4. 18 kW
5. 20 kW

Question Number : 86 Question Id : 4169882042 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A centrifugal pump driven by a directly coupled 1.5 kW motor of 1150 rpm speed is proposed to be connected to another motor of 2300 rpm speed. What should be the power of the motor?

Options :

1. 8 kW
2. 12 kW
3. 16 kW
4. 18 kW
5. 20 kW

Question Number : 87 Question Id : 4169882043 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which substance has the maximum value of thermal conductivity?

Options :

1. Glass
2. Steel

- 3. ✗ Cork
- 4. ✗ Freon
- 5. ✓ Silver

Question Number : 87 Question Id : 4169882043 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which substance has the maximum value of thermal conductivity?

Options :

- 1. ✗ Glass
- 2. ✗ Steel
- 3. ✗ Cork
- 4. ✗ Freon
- 5. ✓ Silver

Question Number : 88 Question Id : 4169882044 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In a simple gear train, the wheel has 150 teeth and the pinion has 50 teeth. What is the speed of pinion if the wheel rotates at 120 rpm?

Options :

- 1. ✗ 300 rpm
- 2. ✗ 330 rpm
- 3. ✓ 360 rpm
- 4. ✗ 375 rpm
- 5. ✗ 400 rpm

Question Number : 88 Question Id : 4169882044 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In a simple gear train, the wheel has 150 teeth and the pinion has 50 teeth. What is the speed of pinion if the wheel rotates at 120 rpm?

Options :

- 1. ✗ 300 rpm
- 2. ✗ 330 rpm
- 3. ✓ 360 rpm
- 4. ✗ 375 rpm
- 5. ✗ 400 rpm

Question Number : 89 Question Id : 4169882045 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A gear has 40 teeth of module 5 mm. Find the pitch circle diameter.

Options :

1. 40 mm
2. 100 mm
3. 140 mm
4. 200 mm
5. 240 mm

Question Number : 89 Question Id : 4169882045 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A gear has 40 teeth of module 5 mm. Find the pitch circle diameter.

Options :

1. 40 mm
2. 100 mm
3. 140 mm
4. 200 mm
5. 240 mm

Question Number : 90 Question Id : 4169882046 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The time constant for thermocouple is the time taken to attain _____ of instantaneous temperature change.

Options :

1. 100%
2. 63.2%
3. 50.5%
4. 25.3%
5. 36.8%

Question Number : 90 Question Id : 4169882046 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The time constant for thermocouple is the time taken to attain _____ of instantaneous temperature change.

Options :

1. 100%
2. 63.2%
3. 50.5%
4. 25.3%
5. 36.8%

Question Number : 91 Question Id : 4169882047 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The product of diametral pitch (P_d) and the circular pitch (P_c) is equal to:

Options :

1. ✗ 2π

2. ✓ π

π

3. ✗ $\frac{\pi}{2}$

4. ✗ 1

3π

5. ✗ $\frac{3\pi}{2}$

Question Number : 91 Question Id : 4169882047 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The product of diametral pitch (P_d) and the circular pitch (P_c) is equal to:

Options :

1. ✗ 2π

2. ✓ π

π

3. ✗ $\frac{\pi}{2}$

4. ✗ 1

3π

5. ✗ $\frac{3\pi}{2}$

Question Number : 92 Question Id : 4169882048 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Thermal conductivity is expressed as:

Options :

1. ✓ W/mK

2. ✗ W/m²K

3. ✗ W/hmK

4. ✗ W/hm²K

5. ✗ W/h²m²K

Question Number : 92 Question Id : 4169882048 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Thermal conductivity is expressed as:

Options :

1. ✓ W/mK

2. ✗ W/m²K

- 3. W/hmK
- 4. W/hm²K
- 5. W/h²m²K

Question Number : 93 Question Id : 4169882049 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What is the reference point on the follower to lay the cam profile known as?

Options :

- 1. Cam center
- 2. Pitch point
- 3. Trace point
- 4. Prime point
- 5. Flat point

Question Number : 93 Question Id : 4169882049 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What is the reference point on the follower to lay the cam profile known as?

Options :

- 1. Cam center
- 2. Pitch point
- 3. Trace point
- 4. Prime point
- 5. Flat point

Question Number : 94 Question Id : 4169882050 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Regeneration in a gas cycle:

Options :

- 1. increases pressure ratio
- 2. decreases work output
- 3. increases thermal efficiency
- 4. increases heat input
- 5. decreases thermal efficiency

Question Number : 94 Question Id : 4169882050 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Regeneration in a gas cycle:

Options :

1. ✗ increases pressure ratio
2. ✗ decreases work output
3. ✓ increases thermal efficiency
4. ✗ increases heat input
5. ✗ decreases thermal efficiency

Question Number : 95 Question Id : 4169882051 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Blade erosion in steam turbines occurs due to:

Options :

1. ✗ high temperature steam
2. ✓ droplets in steam
3. ✗ high flow rate
4. ✗ high rotational speed
5. ✗ high kinetic energy

Question Number : 95 Question Id : 4169882051 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Blade erosion in steam turbines occurs due to:

Options :

1. ✗ high temperature steam
2. ✓ droplets in steam
3. ✗ high flow rate
4. ✗ high rotational speed
5. ✗ high kinetic energy

Question Number : 96 Question Id : 4169882052 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Turbine having adjustable blade impeller is called:

Options :

1. ✗ Pelton turbine
2. ✗ Francis turbine
3. ✓ Kaplan turbine
4. ✗ Banki turbine

5. Deriaz turbine

Question Number : 96 Question Id : 4169882052 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Turbine having adjustable blade impeller is called:

Options :

1. Pelton turbine
2. Francis turbine
3. Kaplan turbine
4. Banki turbine
5. Deriaz turbine

Question Number : 97 Question Id : 4169882053 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Two turbines A and B are having same specific speed and are working under the same head. Turbine A produces 400 kW at 800 rpm. If Turbine B produces 100 kW, then what is its rpm?

Options :

1. 200
2. 320
3. 800
4. 1600
5. 3200

Question Number : 97 Question Id : 4169882053 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Two turbines A and B are having same specific speed and are working under the same head. Turbine A produces 400 kW at 800 rpm. If Turbine B produces 100 kW, then what is its rpm?

Options :

1. 200
2. 320
3. 800
4. 1600
5. 3200

Question Number : 98 Question Id : 4169882054 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The temperature required for full annealing in hypo-eutectoid steel is:

Options :

1. 30 °C to 50 °C above the upper critical temperature to the austinitic condition
2. 30 °C to 50 °C below upper critical temperature

- 3. ✘ 30 °C to 50 °C above lower critical temperature
- 4. ✘ 30 °C to 50 °C below lower critical temperature
- 5. ✘ equal to lower critical temperature

Question Number : 98 Question Id : 4169882054 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The temperature required for full annealing in hypo-eutectoid steel is:

Options :

- 1. ✓ 30 °C to 50 °C above the upper critical temperature to the austinitic condition
- 2. ✘ 30 °C to 50 °C below upper critical temperature
- 3. ✘ 30 °C to 50 °C above lower critical temperature
- 4. ✘ 30 °C to 50 °C below lower critical temperature
- 5. ✘ equal to lower critical temperature

Question Number : 99 Question Id : 4169882055 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In work study, the symbol '▽' represents what type of event?

Options :

- 1. ✘ Operation
- 2. ✘ Inspection
- 3. ✘ Transportation
- 4. ✘ Delay
- 5. ✓ Storage

Question Number : 99 Question Id : 4169882055 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In work study, the symbol '▽' represents what type of event?

Options :

- 1. ✘ Operation
- 2. ✘ Inspection
- 3. ✘ Transportation
- 4. ✘ Delay
- 5. ✓ Storage

Question Number : 100 Question Id : 4169882056 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If t_o is the optimistic time, t_p is the pessimistic time and t_m is the most likely time, then the probabilistic time for completion of an activity is given by:

Options :

1. $\frac{t_o + t_p + t_m}{3}$
2. $\frac{t_o + 2t_p + t_m}{4}$
3. $\frac{2t_o + t_p + 2t_m}{3}$
4. $\frac{t_o + t_p + 4t_m}{6}$
5. $\frac{t_o + 4t_p + t_m}{5}$

Question Number : 100 Question Id : 4169882056 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If t_o is the optimistic time, t_p is the pessimistic time and t_m is the most likely time, then the probabilistic time for completion of an activity is given by:

Options :

1. $\frac{t_o + t_p + t_m}{3}$
2. $\frac{t_o + 2t_p + t_m}{4}$
3. $\frac{2t_o + t_p + 2t_m}{3}$
4. $\frac{t_o + t_p + 4t_m}{6}$
5. $\frac{t_o + 4t_p + t_m}{5}$

Question Number : 101 Question Id : 4169882057 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following is NOT a feature of third-angle projection?

Options :

1. The object lies in the third-angle.
2. The plane of projection lies between the object and the observer.
3. The top view is drawn above the front view.
4. The top view is drawn below the front view.

5. ✘ The right hand side view is drawn to the right side of the front view.

Question Number : 101 Question Id : 4169882057 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following is NOT a feature of third-angle projection?

Options :

1. ✘ The object lies in the third-angle.
2. ✘ The plane of projection lies between the object and the observer.
3. ✘ The top view is drawn above the front view.
4. ✓ The top view is drawn below the front view.
5. ✘ The right hand side view is drawn to the right side of the front view.

Question Number : 102 Question Id : 4169882058 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The profile plane is a plane which is:

Options :

1. ✘ 45° to both H.P. and V.P.
2. ✘ 60° to both H.P. and V.P.
3. ✘ 60° to H.P. and inclined to V.P.
4. ✘ 90° to V.P. and inclined to H.P.
5. ✓ 90° to both H.P. and V.P.

Question Number : 102 Question Id : 4169882058 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The profile plane is a plane which is:

Options :

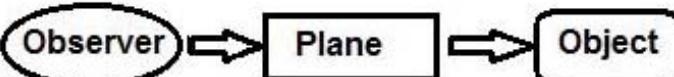
1. ✘ 45° to both H.P. and V.P.
2. ✘ 60° to both H.P. and V.P.
3. ✘ 60° to H.P. and inclined to V.P.
4. ✘ 90° to V.P. and inclined to H.P.
5. ✓ 90° to both H.P. and V.P.

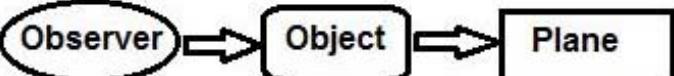
Question Number : 103 Question Id : 4169882059 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

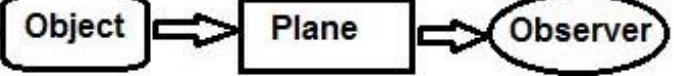
Which of the following indicates the correct relative position of the object, plane and the observer in the first angle projection method?

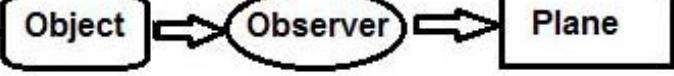
Options :

1. ✗ 

2. ✓ 

3. ✗ 

4. ✗ 

5. ✗ 

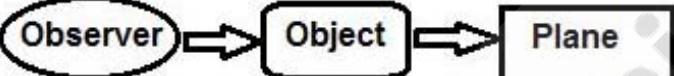
Question Number : 103 Question Id : 4169882059 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following indicates the correct relative position of the object, plane and the observer in the first angle projection method?

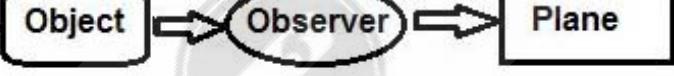
Options :

1. ✗ 

2. ✓ 

3. ✗ 

4. ✗ 

5. ✗ 

Question Number : 104 Question Id : 4169882060 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

As per the first-angle projection system, where is the left-hand side view of an object drawn?

Options :

1. ✓ To the right-side of the front view

2. ✗ To the left-side of the front view

3. ✗ Below the front view

4. ✗ Above the elevation

5. ✗ Top of the front view

Question Number : 104 Question Id : 4169882060 Question Type : MCQ Display Question Number : Yes Single Line Question

As per the first-angle projection system, where is the left-hand side view of an object drawn?

Options :

1. To the right-side of the front view
2. To the left-side of the front view
3. Below the front view
4. Above the elevation
5. Top of the front view

Question Number : 105 Question Id : 4169882061 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The isometric projection of an object is one of the axonometric projections of the object in which its principal coordinate axes are:

Options :

1. equally inclined at 30° to the plane of projection
2. equally inclined at 45° to the plane of projection
3. equally inclined at 60° to the plane of projection
4. equally inclined at 45° to the H.P.
5. equally inclined at 75° to the plane of projection

Question Number : 105 Question Id : 4169882061 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The isometric projection of an object is one of the axonometric projections of the object in which its principal coordinate axes are:

Options :

1. equally inclined at 30° to the plane of projection
2. equally inclined at 45° to the plane of projection
3. equally inclined at 60° to the plane of projection
4. equally inclined at 45° to the H.P.
5. equally inclined at 75° to the plane of projection

Question Number : 106 Question Id : 4169882062 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The isometric projection of a circle is:

Options :

1. the same circle itself
2. an involute
3. an obloid

4. ✗ a circle of diameter reduced to 70% of the actual diameter
5. ✓ an ellipse

Question Number : 106 Question Id : 4169882062 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The isometric projection of a circle is:

Options :

1. ✗ the same circle itself
2. ✗ an involute
3. ✗ an obloid
4. ✗ a circle of diameter reduced to 70% of the actual diameter
5. ✓ an ellipse

Question Number : 107 Question Id : 4169882063 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In an isometric projection, the dimensions of the object along the isometric axes or isometric lines are reduced to:

Options :

1. ✗ 8.26%
2. ✗ 14%
3. ✗ 50%
4. ✗ 72.6%
5. ✓ 81.6%

Question Number : 107 Question Id : 4169882063 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In an isometric projection, the dimensions of the object along the isometric axes or isometric lines are reduced to:

Options :

1. ✗ 8.26%
2. ✗ 14%
3. ✗ 50%
4. ✗ 72.6%
5. ✓ 81.6%

Question Number : 108 Question Id : 4169882064 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What is the angle at which the hatching lines are usually inclined with the reference line?

Options :

1. ✓ 45°
2. ✗ 60°

- 3. ✘ 75°
- 4. ✘ 90°
- 5. ✘ 30°

Question Number : 108 Question Id : 4169882064 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

What is the angle at which the hatching lines are usually inclined with the reference line?

Options :

- 1. ✓ 45°
- 2. ✘ 60°
- 3. ✘ 75°
- 4. ✘ 90°
- 5. ✘ 30°

Question Number : 109 Question Id : 4169882065 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In which machine tool is the point-to-point Numerical controlled system applied?

Options :

- 1. ✘ Machining centre
- 2. ✓ Drilling machine
- 3. ✘ Turning centre
- 4. ✘ Grinding machine
- 5. ✘ Shaping machine

Question Number : 109 Question Id : 4169882065 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In which machine tool is the point-to-point Numerical controlled system applied?

Options :

- 1. ✘ Machining centre
- 2. ✓ Drilling machine
- 3. ✘ Turning centre
- 4. ✘ Grinding machine
- 5. ✘ Shaping machine

Question Number : 110 Question Id : 4169882066 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In CNC part program, what does M05 stand for?

Options :

1. ✗ End of program
2. ✗ End of tape and Coolant ON
3. ✗ Tape rewind
4. ✗ Spindle CW
5. ✓ Spindle OFF

Question Number : 110 Question Id : 4169882066 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In CNC part program, what does M05 stand for?

Options :

1. ✗ End of program
2. ✗ End of tape and Coolant ON
3. ✗ Tape rewind
4. ✗ Spindle CW
5. ✓ Spindle OFF

Question Number : 111 Question Id : 4169882067 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A symmetrical right circular cone of wood floats in fresh water with axis vertical and apex downwards. The axial height of the centre is 'L'. The submerged portion has a height ' χ ', measured upwards from the apex. What would be the height of the centre of buoyancy from the apex?

Options :

1. ✗ $\frac{1}{2}\chi$
2. ✓ $\frac{3}{4}\chi$
3. ✗ $\frac{2}{3}\chi$
4. ✗ $\frac{1}{3}\chi$
5. ✗ $\frac{3}{5}\chi$

Question Number : 111 Question Id : 4169882067 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A symmetrical right circular cone of wood floats in fresh water with axis vertical and apex downwards. The axial height of the centre is 'L'. The submerged portion has a height ' χ ', measured upwards from the apex. What would be the height of the centre of buoyancy from the apex?

Options :

1. $\frac{1}{2}\chi$

2. $\frac{3}{4}\chi$

3. $\frac{2}{3}\chi$

4. $\frac{1}{3}\chi$

5. $\frac{3}{5}\chi$

Question Number : 112 Question Id : 4169882068 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Water is flowing with a flow rate of $0.003 \text{ m}^3/\text{s}$. What is the average velocity at the outlet of pipe, whose area of cross section is 5 cm^2 ?

Options :

1. 50 m/s

2. 45 m/s

3. 30 m/s

4. 15 m/s

5. 6 m/s

Question Number : 112 Question Id : 4169882068 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Water is flowing with a flow rate of $0.003 \text{ m}^3/\text{s}$. What is the average velocity at the outlet of pipe, whose area of cross section is 5 cm^2 ?

Options :

1. 50 m/s

2. 45 m/s

3. 30 m/s

4. 15 m/s

5. 6 m/s

Question Number : 113 Question Id : 4169882069 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The atmospheric air at dry bulb temperature of 15°C enters a heating coil maintained at 40°C . The air leaves the heating coil at 22.5°C . What is the by-pass-factor of the heating coil?

Options :

1. 0.35

- 2. ✗ 0.4
- 3. ✗ 0.6
- 4. ✓ 0.7
- 5. ✗ 0.75

Question Number : 113 Question Id : 4169882069 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The atmospheric air at dry bulb temperature of 15°C enters a heating coil maintained at 40°C . The air leaves the heating coil at 22.5°C . What is the by-pass-factor of the heating coil?

Options :

- 1. ✗ 0.35
- 2. ✗ 0.4
- 3. ✗ 0.6
- 4. ✓ 0.7
- 5. ✗ 0.75

Question Number : 114 Question Id : 4169882070 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The forging operation that is carried out in closed dies and in which the flow of metal occurs only at the top layers of the material but not throughout the material is called:

Options :

- 1. ✗ Auto forging
- 2. ✓ Coining
- 3. ✗ Incremental forging
- 4. ✗ Roll forging
- 5. ✗ Swaging

Question Number : 114 Question Id : 4169882070 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The forging operation that is carried out in closed dies and in which the flow of metal occurs only at the top layers of the material but not throughout the material is called:

Options :

- 1. ✗ Auto forging
- 2. ✓ Coining
- 3. ✗ Incremental forging
- 4. ✗ Roll forging
- 5. ✗ Swaging

Question Number : 115 Question Id : 4169882071 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In backward extrusion process, which type of pressure is applied on a billet of ductile metal to force it through the die orifice?

Options :

1. Tensile
2. Compressive
3. Shear
4. Tensile and Shear
5. Tensile, Compressive and Shear

Question Number : 115 Question Id : 4169882071 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In backward extrusion process, which type of pressure is applied on a billet of ductile metal to force it through the die orifice?

Options :

1. Tensile
2. Compressive
3. Shear
4. Tensile and Shear
5. Tensile, Compressive and Shear

Question Number : 116 Question Id : 4169882072 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In drawing operation of large diameter wires, the range of reduction in cross-sectional area per pass is generally from:

Options :

1. 5% to 10%
2. 10% to 20%
3. 15% to 45%
4. 50% to 65%
5. 70% to 85%

Question Number : 116 Question Id : 4169882072 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In drawing operation of large diameter wires, the range of reduction in cross-sectional area per pass is generally from:

Options :

1. 5% to 10%
2. 10% to 20%
3. 15% to 45%

- 4. 50% to 65%
- 5. 70% to 85%

Question Number : 117 Question Id : 4169882073 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Centre burst is a common defect in extruded parts. This defect is also known as:

Options :

- 1. Arrow and bow
- 2. Arrow-head fracture
- 3. Fish tailing
- 4. Snake tail
- 5. Hollow sphere

Question Number : 117 Question Id : 4169882073 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Centre burst is a common defect in extruded parts. This defect is also known as:

Options :

- 1. Arrow and bow
- 2. Arrow-head fracture
- 3. Fish tailing
- 4. Snake tail
- 5. Hollow sphere

Question Number : 118 Question Id : 4169882074 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A bloom is a solid mass of metal having square or rectangular cross- section with thickness:

Options :

- 1. equal to 50 mm
- 2. ranging between 50 and 75 mm
- 3. ranging between 75 and 100 mm
- 4. less than 150 mm
- 5. equal to or greater than 150 mm

Question Number : 118 Question Id : 4169882074 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A bloom is a solid mass of metal having square or rectangular cross- section with thickness:

Options :

- 1. equal to 50 mm

- 2. ranging between 50 and 75 mm
- 3. ranging between 75 and 100 mm
- 4. less than 150 mm
- 5. equal to or greater than 150 mm

Question Number : 119 Question Id : 4169882075 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which is the recommended method of casting for making vanes or blades of a turbine?

Options :

- 1. Shell moulding
- 2. Die casting
- 3. Permanent mould casting
- 4. False - centrifugal casting
- 5. Precision investment casting

Question Number : 119 Question Id : 4169882075 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which is the recommended method of casting for making vanes or blades of a turbine?

Options :

- 1. Shell moulding
- 2. Die casting
- 3. Permanent mould casting
- 4. False - centrifugal casting
- 5. Precision investment casting

Question Number : 120 Question Id : 4169882076 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

For heavy and large size casting, which gating system is used?

Options :

- 1. Step gate
- 2. Top gate
- 3. Bottom gate
- 4. Parting line gate
- 5. Laminar gate

Question Number : 120 Question Id : 4169882076 Question Type : MCQ Display Question Number : Yes Single Line Question

Correct : 2 Wrong : 1

For heavy and large size casting, which gating system is used?

Options :

1. Step gate
2. Top gate
3. Bottom gate
4. Parting line gate
5. Laminar gate

Question Number : 121 Question Id : 4169882077 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The distance from the edge of the plate to the centre of the nearest rivet is called:

Options :

1. Pitch
2. Row pitch
3. Diagonal pitch
4. Margin
5. Chain riveting

Question Number : 121 Question Id : 4169882077 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The distance from the edge of the plate to the centre of the nearest rivet is called:

Options :

1. Pitch
2. Row pitch
3. Diagonal pitch
4. Margin
5. Chain riveting

Question Number : 122 Question Id : 4169882078 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If a bearing is designated by number 208, it refers to:

Options :

1. light series bearing with 8 mm bore
2. light series bearing with 40 mm bore
3. medium series bearing with 20 mm bore

4. ✘ medium series bearing with 40 mm bore
5. ✘ heavy series bearing with 20 mm bore

Question Number : 122 Question Id : 4169882078 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If a bearing is designated by number 208, it refers to:

Options :

1. ✘ light series bearing with 8 mm bore
2. ✓ light series bearing with 40 mm bore
3. ✘ medium series bearing with 20 mm bore
4. ✘ medium series bearing with 40 mm bore
5. ✘ heavy series bearing with 20 mm bore

Question Number : 123 Question Id : 4169882079 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If 'm' is mass of a belt in kg per meter length, what will be the velocity of the belt for maximum power?

Options :

1. ✘ $\left(\frac{T}{m}\right)^{1/2}$
2. ✘ $\left(\frac{T}{2m}\right)^{1/2}$
3. ✓ $\left(\frac{T}{3m}\right)^{1/2}$
4. ✘ $\left(\frac{3T}{m}\right)^{1/2}$
5. ✘ $\left(\frac{2T}{3m}\right)^{1/2}$

Question Number : 123 Question Id : 4169882079 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If 'm' is mass of a belt in kg per meter length, what will be the velocity of the belt for maximum power?

Options :

1. ✘ $\left(\frac{T}{m}\right)^{1/2}$
2. ✘ $\left(\frac{T}{2m}\right)^{1/2}$

3. ✓ $\left(\frac{T}{3m}\right)^{1/2}$

4. ✗ $\left(\frac{3T}{m}\right)^{1/2}$

5. ✗ $\left(\frac{2T}{3m}\right)^{1/2}$

Question Number : 124 Question Id : 4169882080 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In the designation 6×19 for the wire rope, 6 and 19 stand for:

Options :

1. ✗ diameter of wire rope and number of strands respectively
2. ✗ diameter of wire rope and number of wires respectively
3. ✗ number of wires and diameter of wire rope respectively
4. ✗ number of wires and number of strands respectively
5. ✓ number of strands and number of wires respectively

Question Number : 124 Question Id : 4169882080 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In the designation 6×19 for the wire rope, 6 and 19 stand for:

Options :

1. ✗ diameter of wire rope and number of strands respectively
2. ✗ diameter of wire rope and number of wires respectively
3. ✗ number of wires and diameter of wire rope respectively
4. ✗ number of wires and number of strands respectively
5. ✓ number of strands and number of wires respectively

Question Number : 125 Question Id : 4169882081 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the followings is NOT the “resistance welding process”?

Options :

1. ✗ Percussion
2. ✗ Spot
3. ✓ Ultrasonic
4. ✗ Projection
5. ✗ Butt

Question Number : 125 Question Id : 4169882081 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the followings is NOT the “resistance welding process”?

Options :

1. Percussion
2. Spot
3. Ultrasonic
4. Projection
5. Butt

Question Number : 126 Question Id : 4169882082 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The portion of the twist drill which is used to grip it in the sleeve is known as:

Options :

1. Point
2. Shank
3. Flute
4. Dead center
5. Land

Question Number : 126 Question Id : 4169882082 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The portion of the twist drill which is used to grip it in the sleeve is known as:

Options :

1. Point
2. Shank
3. Flute
4. Dead center
5. Land

Question Number : 127 Question Id : 4169882083 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A drill of diameter 20 mm makes a hole on a steel part at a cutting speed of 22 m/min. Find the spindle speed.

Options :

1. 200 rpm
2. 220 rpm
3. 250 rpm

4. ✗ 330 rpm

5. ✓ 350 rpm

Question Number : 127 Question Id : 4169882083 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A drill of diameter 20 mm makes a hole on a steel part at a cutting speed of 22 m/min. Find the spindle speed.

Options :

1. ✗ 200 rpm

2. ✗ 220 rpm

3. ✗ 250 rpm

4. ✗ 330 rpm

5. ✓ 350 rpm

Question Number : 128 Question Id : 4169882084 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The angle between the direction of the follower motion and a normal to the pitch curve is called:

Options :

1. ✗ Base angle

2. ✓ Pressure angle

3. ✗ Prime angle

4. ✗ Pitch angle

5. ✗ Knife angle

Question Number : 128 Question Id : 4169882084 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The angle between the direction of the follower motion and a normal to the pitch curve is called:

Options :

1. ✗ Base angle

2. ✓ Pressure angle

3. ✗ Prime angle

4. ✗ Pitch angle

5. ✗ Knife angle

Question Number : 129 Question Id : 4169882085 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In a radial cam, the follower moves:

1. ✘ along the cam axis
2. ✘ in a direction parallel to the cam axis
3. ✓ in a direction perpendicular to the cam axis
4. ✘ at an angle of 30° to the cam axis
5. ✘ at an angle of 75° to the cam axis

Question Number : 129 Question Id : 4169882085 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In a radial cam, the follower moves:

Options :

1. ✘ along the cam axis
2. ✘ in a direction parallel to the cam axis
3. ✓ in a direction perpendicular to the cam axis
4. ✘ at an angle of 30° to the cam axis
5. ✘ at an angle of 75° to the cam axis

Question Number : 130 Question Id : 4169882086 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A Hartnell governor is a/an:

Options :

1. ✘ dead weight type governor
2. ✘ pendulum type governor
3. ✘ inertia type governor
4. ✓ spring loaded type governor
5. ✘ porter type governor

Question Number : 130 Question Id : 4169882086 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A Hartnell governor is a/an:

Options :

1. ✘ dead weight type governor
2. ✘ pendulum type governor
3. ✘ inertia type governor
4. ✓ spring loaded type governor
5. ✘ porter type governor

Question Number : 131 Question Id : 4169882087 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A centrifugal watt governor is fitted with two balls, each of mass 2.5 kg. Find the angular velocity of the governor, when it is running at 75 rpm.

Options :

1. 1.5π rad/sec
2. 1.75π rad/sec
3. 2.5π rad/sec
4. 2.75π rad/sec
5. 3π rad/sec

Question Number : 131 Question Id : 4169882087 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

A centrifugal watt governor is fitted with two balls, each of mass 2.5 kg. Find the angular velocity of the governor, when it is running at 75 rpm.

Options :

1. 1.5π rad/sec
2. 1.75π rad/sec
3. 2.5π rad/sec
4. 2.75π rad/sec
5. 3π rad/sec

Question Number : 132 Question Id : 4169882088 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which is the correct relationship of gears?

Options :

1. Module = pitch circle diameter / number of teeth
2. root circle diameter = pitch circle diameter \times module
3. pitch circle diameter = number of teeth / module
4. circular pitch \times π = diametral pitch
5. circular pitch = pitch circle diameter \times number of teeth

Question Number : 132 Question Id : 4169882088 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which is the correct relationship of gears?

Options :

1. Module = pitch circle diameter / number of teeth
2. root circle diameter = pitch circle diameter \times module

3. pitch circle diameter = number of teeth / module
4. circular pitch $\times \pi$ = diametral pitch
5. circular pitch = pitch circle diameter \times number of teeth

Question Number : 133 Question Id : 4169882089 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

It is required to drive a shaft at 720 rpm by means of a belt from a parallel shaft with a pulley of 300 mm diameter on it and running at 240 rpm. What is the diameter of the pulley required on the driven shaft?

Options :

1. 100 mm
2. 120 mm
3. 130 mm
4. 145 mm
5. 150 mm

Question Number : 133 Question Id : 4169882089 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

It is required to drive a shaft at 720 rpm by means of a belt from a parallel shaft with a pulley of 300 mm diameter on it and running at 240 rpm. What is the diameter of the pulley required on the driven shaft?

Options :

1. 100 mm
2. 120 mm
3. 130 mm
4. 145 mm
5. 150 mm

Question Number : 134 Question Id : 4169882090 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

When the gear ratio through the transmission is 0.8 : 1, the transmission is in:

Options :

1. overdrive
2. underdrive
3. direct drive
4. neutral
5. deep drive

Question Number : 134 Question Id : 4169882090 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

When the gear ratio through the transmission is 0.8 : 1, the transmission is in:

Options :

1. overdrive
2. underdrive
3. direct drive
4. neutral
5. deep drive

Question Number : 135 Question Id : 4169882091 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

How many links must be there in “compound mechanism”?

Options :

1. 1
2. 2
3. 3
4. 4
5. More than 4

Question Number : 135 Question Id : 4169882091 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

How many links must be there in “compound mechanism”?

Options :

1. 1
2. 2
3. 3
4. 4
5. More than 4

Question Number : 136 Question Id : 4169882092 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following is a type of chassis of an automobile?

Options :

1. Semifoward
2. Centrifugal
3. Steering
4. Wind
5. Automatic

Question Number : 136 Question Id : 4169882092 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following is a type of chassis of an automobile?

Options :

1. Semifoward
2. Centrifugal
3. Steering
4. Wind
5. Automatic

Question Number : 137 Question Id : 4169882093 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Wheel base is the distance between:

Options :

1. two front wheels
2. two rear wheels
3. rear and front wheels
4. front left hand side to rear right hand side
5. rear left hand side to front left hand side

Question Number : 137 Question Id : 4169882093 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Wheel base is the distance between:

Options :

1. two front wheels
2. two rear wheels
3. rear and front wheels
4. front left hand side to rear right hand side
5. rear left hand side to front left hand side

Question Number : 138 Question Id : 4169882094 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The tensions in the two sides of the belt are T_1 and T_2 respectively. If the speed of the belt is 75 m/sec, then what is the power transmitted by the belt?

Options :

1. $75(T_1 + T_2)$
2. $75(T_1 + T_2 + 1)$
3. $\frac{(T_1 - T_2)}{75}$
4. $75(T_1 - T_2)$

5. $75\left(\frac{T_1}{T_2}\right)$

Question Number : 138 Question Id : 4169882094 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The tensions in the two sides of the belt are T_1 and T_2 respectively. If the speed of the belt is 75 m/sec, then what is the power transmitted by the belt?

Options :

1. $75(T_1 + T_2)$

2. $75(T_1 + T_2 + 1)$

3. $\frac{(T_1 - T_2)}{75}$

4. $75(T_1 - T_2)$

5. $75\left(\frac{T_1}{T_2}\right)$

Question Number : 139 Question Id : 4169882095 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following is correct for clutch?

Options :

1. Clutch is engaged while changing of gears.

2. Clutch is disengaged while starting of engine.

3. Clutch should be engaged suddenly to avoid jerk.

4. Clutch should have low coefficient of friction.

5. Clutch is disengaged while the vehicle is moving.

Question Number : 139 Question Id : 4169882095 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which of the following is correct for clutch?

Options :

1. Clutch is engaged while changing of gears.

2. Clutch is disengaged while starting of engine.

3. Clutch should be engaged suddenly to avoid jerk.

4. Clutch should have low coefficient of friction.

5. Clutch is disengaged while the vehicle is moving.

Question Number : 140 Question Id : 4169882096 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Gear box is required for:

Options :

1. ✗ smooth running of the car
2. ✗ controlling fuel supply
3. ✗ acceleration
4. ✓ regulation of torque and speed
5. ✗ retardation

Question Number : 140 Question Id : 4169882096 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Gear box is required for:

Options :

1. ✗ smooth running of the car
2. ✗ controlling fuel supply
3. ✗ acceleration
4. ✓ regulation of torque and speed
5. ✗ retardation

Question Number : 141 Question Id : 4169882097 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Steering ratio for cars is approximately:

Options :

1. ✗ 2-5
2. ✓ 10-20
3. ✗ 30-40
4. ✗ 50-60
5. ✗ 70-80

Question Number : 141 Question Id : 4169882097 Question Type : MCQ Display Question Number : Yes Single Line Question

Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Steering ratio for cars is approximately:

Options :

1. ✗ 2-5
2. ✓ 10-20
3. ✗ 30-40
4. ✗ 50-60
5. ✗ 70-80

Question Number : 142 Question Id : 4169882098 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct : 2 Wrong : 1

If delivery ratio is 1.7, what will be the excess air factor in case of two stroke engine?

Options :

1. 0.3
2. 0.7
3. 3.4
4. 1.4
5. 0.6

Question Number : 142 Question Id : 4169882098 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If delivery ratio is 1.7, what will be the excess air factor in case of two stroke engine?

Options :

1. 0.3
2. 0.7
3. 3.4
4. 1.4
5. 0.6

Question Number : 143 Question Id : 4169882099 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which type of rear axle is used on a heavy duty truck?

Options :

1. Semi floating
2. Fully floating
3. Quarter floating
4. Non floating
5. Drive shaft

Question Number : 143 Question Id : 4169882099 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Which type of rear axle is used on a heavy duty truck?

Options :

1. Semi floating
2. Fully floating
3. Quarter floating

4. ✘ Non floating
5. ✘ Drive shaft

Question Number : 144 Question Id : 4169882100 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If "L" represents number of links and "p" represents number of pairs, then which relation is true for a kinematic chain?

Options :

1. ✓ $L = 2p - 4$
2. ✘ $L = 2p + 4$
3. ✘ $L = p - 4$
4. ✘ $L = p + 4$
5. ✘ $L = 2p - 3$

Question Number : 144 Question Id : 4169882100 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

If "L" represents number of links and "p" represents number of pairs, then which relation is true for a kinematic chain?

Options :

1. ✓ $L = 2p - 4$
2. ✘ $L = 2p + 4$
3. ✘ $L = p - 4$
4. ✘ $L = p + 4$
5. ✘ $L = 2p - 3$

Question Number : 145 Question Id : 4169882101 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In a multiple disc clutch, n_1 is the number of discs on the driving shaft, and n_2 is the number of discs on the driven shaft. The number of pairs of contact surfaces is given by:

Options :

1. ✘ $n_1 + n_2$
2. ✘ $n_1 + n_2 + 1$
3. ✓ $n_1 + n_2 - 1$
4. ✘ $\frac{n_1 - n_2}{2}$
5. ✘ $\frac{n_1 + n_2}{2}$

Question Number : 145 Question Id : 4169882101 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

In a multiple disc clutch, n_1 is the number of discs on the driving shaft, and n_2 is the number of discs on the driven shaft. The number of pairs of contact surfaces is given by:

Options :

1. $n_1 + n_2$
2. $n_1 + n_2 + 1$
3. $n_1 + n_2 - 1$
4. $\frac{n_1 - n_2}{2}$
5. $\frac{n_1 + n_2}{2}$

Question Number : 146 Question Id : 4169882102 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The smallest gears inside the differential casing are:

Options :

1. pinion gears
2. sun gears
3. side gears
4. ring gears
5. both, sun gears and side gears

Question Number : 146 Question Id : 4169882102 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The smallest gears inside the differential casing are:

Options :

1. pinion gears
2. sun gears
3. side gears
4. ring gears
5. both, sun gears and side gears

Question Number : 147 Question Id : 4169882103 Question Type : MCQ Display Question Number : Yes Single Line Question
Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

For small cars, suitable steering gear box is:

Options :

1. rack and pinion
2. worm and wheel

3. ✘ cam and roller
4. ✘ worm and nut
5. ✘ cam and worm

Question Number : 147 Question Id : 4169882103 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

For small cars, suitable steering gear box is:

Options :

1. ✓ rack and pinion
2. ✘ worm and wheel
3. ✘ cam and roller
4. ✘ worm and nut
5. ✘ cam and worm

Question Number : 148 Question Id : 4169882104 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The brake bleeding process removes _____ from the system.

Options :

1. ✓ air
2. ✘ vacuum
3. ✘ excess fluid
4. ✘ excess pressure
5. ✘ dust particles

Question Number : 148 Question Id : 4169882104 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The brake bleeding process removes _____ from the system.

Options :

1. ✓ air
2. ✘ vacuum
3. ✘ excess fluid
4. ✘ excess pressure
5. ✘ dust particles

Question Number : 149 Question Id : 4169882105 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Brake fade is:

Options :

1. loss of pedal
2. loss of friction
3. loss of hydraulic fluid pressure
4. low brake fluid level
5. poor vacuum

Question Number : 149 Question Id : 4169882105 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

Brake fade is:

Options :

1. loss of pedal
2. loss of friction
3. loss of hydraulic fluid pressure
4. low brake fluid level
5. poor vacuum

Question Number : 150 Question Id : 4169882106 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The part of the vehicle by which outer wheel of a vehicle runs faster than inner wheel while taking turn is known as:

Options :

1. Differential
2. Brake
3. Clutch
4. Engine
5. Chassis

Question Number : 150 Question Id : 4169882106 Question Type : MCQ Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct : 2 Wrong : 1

The part of the vehicle by which outer wheel of a vehicle runs faster than inner wheel while taking turn is known as:

Options :

1. Differential
2. Brake
3. Clutch
4. Engine
5. Chassis