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JSSC ANM-GNM

**Previous Year Paper
12 Dec 2021 (Batch-2)**



Please find below the snapshots for the same:

Row Labels	JCECEB ANM GNM Set 13 – Batch 2 – 12-Dec-21
Change of Key	0
Multiple Answer	0
No Change	150
Nullified	0
Grand Total (Unique Questions Claimed)	150



1) Which of the following can be produced in nuclear fission?

- A) Neutrons
- B) Electrons
- C) Deuterons
- D) Protons

- A) न्यूट्रॉन
- B) इलेक्ट्रॉन
- C) ड्यूटरॉन
- D) प्रोटॉन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822665

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: None of These

Final Answer: A

Explanation:

In nuclear fission neutrons get produced.

Reference Concept of physics HC Verma Volume 2nd

Conclusion:

The final answer is option A. There is no change in the answer key



2) Which of the following gases is a primary constituent of both natural gas and biogas? 2) निम्नलिखित में से कौन-सी गैस प्राकृतिक गैस और बायोगैस दोनों का प्राथमिक घटक है?

A) Oxygen	A) ऑक्सीजन
B) Hydrogen	B) हाइड्रोजन
<u>C) Methane</u>	<u>C) मीथेन</u>
D) Nitrogen	D) नाइट्रोजन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822655

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: D

Final Answer: C

Explanation:

Methane is primary constituent of both natural gas and biogas.

Reference: NCERT Science book.

Conclusion:

The final answer is option C. There is no change in the answer key

3) Which of the following types of mirror is used as rear view mirror in automobiles or vehicles? 3) निम्नलिखित में से किस प्रकार के दर्पण का उपयोग ऑटोमोबाइल या वाहनों में पीछे का दृश्य देखने वाले दर्पण के रूप में किया जाता है?

A) Plano concave mirror
B) Convex mirror
C) Concave mirror
D) Plane mirror

A) समतल-उत्तल दर्पण
B) उत्तल दर्पण
C) अवतल दर्पण
D) समतल दर्पण

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822642

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation:

Convex mirror is used for rear view mirror in automobiles or vehicles.

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option B. There is no change in the answer key

4) The SI derived unit of power, defined as one joule of energy per second: 4) शक्ति का वह SI व्युत्पन्न मात्रक कौन-सा है जिसे प्रति सेकंड एक जूल ऊर्जा के रूप में परिभाषित किया जाता है?

- A) Watt
- B) Pascal
- C) Voltage
- D) Ampere

- A) वाट
- B) पास्कल
- C) वोल्टता
- D) एम्पियर

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822648

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation:

SI unit of power is Watt which is defined in question.

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option A. There is no change in the answer key

5) The slope of V-I graph for a conductor 5) किसी चालक के लिए V-I ग्राफ का ढाल क्या प्रदर्शित रूप से दर्शाता है?

A) Voltage	A) वोल्टता
B) Conductance	B) चालन
C) Resistivity	C) प्रतिरोधकता
<u>D) Resistance</u>	<u>D) प्रतिरोध</u>

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822650

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

According to ohms law $V=IR$ so V-I graph will give R .

Reference: Concept of physics volume 2nd HC Verma

Conclusion:

The final answer is option D. There is no change in the answer key

6) The phenomenon of scattering of light in gases and liquids was explained by

निम्नलिखित में से किसके द्वारा समझाया गया था?

A) S. Radhakrishnan

B) C. V. Raman

C) J. C. Bose

D) H. J. Bhabha

A) एस. राधाकृष्णन

B) सी. वी. रमन

C) जे. सी. बोस

D) एच. जे. भाभा

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822644

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation:

The phenomenon of scattering of light in gases and liquids was explained by C V Raman .

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option B. There is no change in the answer key

7) Two bulbs A and B rated 80 W 200 V and 50W 7) 80 W 200 V और 50W 200V रेटिंग वाले दो बल्ब A 200V are connected in parallel across 200 V और B, 200 V की आपूर्ति से समांतर क्रम संयोजन में जुड़े हुए हैं। बल्ब A के माध्यम से प्रवाहित होने वाली धारा का मान है:

A) 0.4 amp

B) 2.5 amp

C) 0.45 amp

D) 0.54 amp

A) 0.4 amp

B) 2.5 amp

C) 0.45 amp

D) 0.54 amp

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822652

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation:

Resistance of any bulb with rated power and voltage can be given by $R = \frac{V^2}{P}$

$$\text{So } R_A = \frac{200^2}{80} \text{ and } I_A = \frac{V}{R_A} = \frac{200}{200^2} \times 80 = .4A$$

Reference: Concept of physics HC Verma Volume 2nd

Conclusion:

The final answer is option A. There is no change in the answer key

8) The refractive index of glass with respect to air is 2. The critical angle for the glass-air interface is

A) 30 °
B) 45 °
C) 60 °
D) 0 °

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822638

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

$$\theta_c = \sin^{-1} \frac{\mu_1}{\mu_2} = \sin^{-1} \frac{1}{2} = 30^\circ$$

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option A. There is no change in the answer key

9) A mirror always forms a virtual, erect and diminished image of a real object. It must be a 9) कोई दर्पण हमेशा एक वास्तविक वस्तु का आभासी, सीधा और छोटा प्रतिरिंग बनाता है। यह निम्न में से क्या होना चाहिए?

A) concave mirror

B) plano-convex mirror

C) convex mirror

D) plane mirror

A) अवतल दर्पण

B) समतल-उत्तल दर्पण

C) उत्तल दर्पण

D) समतल दर्पण

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822640

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

Concave mirror always forms a virtual, erect and diminished image of a real object.

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option A. There is no change in the answer key

10) Where will be image formed when an object is placed at infinity from a convex lens? (Symbols and notations carry their usual meaning)

10) जब किसी वस्तु को उत्तल लेंस से अनंत दूरी पर रखा जाता है तो तब उस वस्तु का प्रतिबिंब कहाँ बनेगा? (प्रतीक और अंकन अपने सामान्य अर्थ दर्शते हैं)

- A) C और F के बीच
- A) between C and F**
- B) at F**
- C) C के पीछे
- D) C पर
- D) at C

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822662

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation:

For mirror $\frac{1}{v} + \frac{1}{u} = \frac{1}{f}$ in case of object at infinity $u = \infty$ so $\frac{1}{v} + \frac{1}{\infty} = \frac{1}{f}$ or $f=v$

So image will be at focus.

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option B. There is no change in the answer key

11) What is Snell's Law?

- A) Ratio of angle of reflection to angle of incidence
- B) Ratio of sine of angle of refraction to sine of angle of incidence
- C) Ratio of sine of angle of incidence to sine of angle of refraction
- D) Ratio of angle of incidence to angle of refraction

11) स्नेल का नियम क्या है?

- A) परावर्तन कोण और आपतन कोण का अनुपात
- B) अपवर्तन कोण की ज्या और आपतन कोण की ज्या का अनुपात
- C) आपतन कोण की ज्या और अपवर्तन कोण की ज्या का अनुपात
- D) आपतन कोण और अपवर्तन कोण का अनुपात

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822661

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: None of These

Final Answer: C

Explanation:

$$\frac{\sin(i)}{\sin(r)} = \frac{\mu_1}{\mu_2}$$
 here i is angle of incidence and r is angle of refraction which is given by snell's law.

Reference: Concept of physics HC Verma volume 1st

Conclusion:

The final answer is option C. There is no change in the answer key

12) Which of the following is the energy efficient device for producing light? 12) निम्नलिखित में से कौन-सा उपकरण प्रकाश उत्पन्न करने के लिए एक ऊर्जा दक्ष उपकरण है?

A) DLF	A) DLF
B) FCL	B) FCL
C) LPG	C) LPG
D) CFL	D) CFL

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822664

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation:

Compact fluorescent lamp (CFL) is the energy efficient device for producing light.

Reference: Concept of physics HC Verma Volume 2nd

Conclusion:

The final answer is option D. There is no change in the answer key

13) The main cause for sparkling brilliance of diamond is 13) हीरे की चमकदार चमक का मुख्य कारण है:

- A) refraction
- B) polarisation
- C) total internal reflection
- D) refractive index

- A) अपवर्तन
- B) ध्रुवीकरण
- C) पूर्ण आंतरिक परावर्तन
- D) अपवर्तनांक

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822639

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: C

Final Answer: C

Explanation:

The main cause for sparkling brilliance of diamond is total internal reflection.

Reference: Concept of physics HC Verma volume 1st

Conclusion:

The final answer is option C. There is no change in the answer key

14) As per Ministry of New and Renewable Energy, a Micro Hydro Project has a Station capacity of (in kW) 14) नवीन और नवीकरणीय ऊर्जा मंत्रालय के अनुसार, एक माइक्रो हाइड्रो प्रोजेक्ट की स्टेशन क्षमता (किलोवाट(kW) में) कितनी होती है?

- A) 101 to 2000
- B) 2001 to 25000
- C) 25001 to 35000
- D) 0- 100**

- A) 101 से 2000 तक
- B) 2001 से 25000 तक
- C) 25001 से 35000 तक
- D) 0 to100 तक**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822657

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation:

As per Ministry of New and Renewable Energy, a Micro Hydro Project has a Station capacity of 0-100kW.

Reference: NCERT Science book.

Conclusion:

The final answer is option D. There is no change in the answer key

15) Which of the following is a chief source of geo thermal energy? 15) निम्नलिखित में से कौन-सा भू-तापीय ऊर्जा का मुख्य स्रोत है?

A) Rivers	A) नदियाँ
B) Energy spot	B) ऊर्जा क्षेत्र
C) Vital spots	C) महत्वपूर्ण क्षेत्र
D) Steam	D) भाप

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822666

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: None of These

Final Answer: D

Explanation:

Steam is the chief source of geo thermal energy.

Reference: NCERT science book.

Conclusion:

The final answer is option D. There is no change in the answer key

16) Why the depth of bucket filled with water seems to be less than its actual depth? 16) जल से भरी बाल्टी की गहराई उसकी वास्तविक गहराई से कम क्यों प्रतीत होती है?

- A) Due to Colour of bucket A) बाल्टी के रंग के कारण
- B) Due to Colour of water B) जल के रंग के कारण
- C) Due to Reflection C) परावर्तन के कारण
- D) Due to Refraction D) अपवर्तन के कारण

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822659

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation:

As refractive index of water is more than the air so due to refraction apparent becomes smaller than actual length.

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option D. There is no change in the answer key

17) LPG (propane) is used as a fuel for many residential, commercial and agricultural heat applications, including cooking, hot water systems and heating. LPG stands for

- A) Liquid Pipe Gas
- B) Low Pressure Gas
- C) Liquefied Petroleum Gas**
- D) Liquid Pressure Gas

17) LPG (प्रोपेन) का उपयोग कई आवासीय, वाणिज्यिक और कृषि ऊर्जीय अनुप्रयोगों के लिए ईंधन के रूप में किया जाता है, जिसमें खाना पकाना, ताप जल प्रणाली और किसी वस्तु को गर्म करना शामिल हैं। LPG का पूर्ण रूप है:

- A) लिक्वाइड पाइप गैस
- B) लो प्रेशर गैस
- C) लिक्वीफाइड पेट्रोलियम गैस**
- D) लिक्वाइड प्रेशर गैस

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822656

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation:

LPG stands for Liquefied petroleum gas.

Reference: NCERT Science book.

Conclusion:

The final answer is option C. There is no change in the answer key

18) In which of the following isotopes of uranium or plutonium, fission is NOT caused by low- energy (slow, or thermal) neutrons? 18) यूरेनियम या प्लूटोनियम के निम्नलिखित में से किस समस्थानिक में, विखंडन कम ऊर्जा (धीमी, या तापीय) के न्यूट्रॉनों के कारण नहीं होता है?

- A) Pu-239
- B) U-235
- C) Pu-238
- D) U-233

- A) Pu-239
- B) U-235
- C) Pu-238
- D) U-233

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822653

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: C

Final Answer: C

Explanation:

As Pu-238 is highly stable element so fission by low energy neutrons is not possible.

Reference: NCERT Science book.

Conclusion:

The final answer is option C. There is no change in the answer key

19) An electron of mass 8.0×10^{-31} kg is moving with a speed of 2×10^7 m/s. The kinetic energy of this electron in eV is

- A) 10^5 eV
- B) 10^3 eV**
- C) 10^2 eV
- D) 10^4 eV

- A) 10^5 eV
- B) 10^3 eV**
- C) 10^2 eV
- D) 10^4 eV

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822658

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation:

$$KE = \frac{1}{2}mv^2 = \frac{1}{2} \times 8.0 \times 10^{-31} \times (2.0 \times 10^7)^2$$

$$\text{In eV } KE = \frac{1}{2} \times 8.0 \times 10^{-31} \times (2.0 \times 10^7)^2 / (1.6 \times 10^{-19}) = 10^3 \text{ eV}$$

Reference: Concept of physics HC Verma volume 1st

Conclusion:

The final answer is option B. There is no change in the answer key

20) A light ray incident at an angle of 50° on one face of the prism suffers minimum deviation of 25° . Find angle of prism.

20) किसी प्रिज्म के एक फलक पर 50° के कोण से आपतित प्रकाश किरण 25° के कोण से न्यूनतम विचलित होती है। प्रिज्म का कोण ज्ञात कीजिए।

A) 45°	A) 45°
B) 60°	B) 60°
C) 55°	C) 55°
<u>D) 75°</u>	<u>D) 75°</u>

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822647

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation:

We have $2i = A + \delta_m$ so $A=100-25=75^\circ$

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option D. There is no change in the answer key

21) What is the function of liquid filled in the space between eye lens and retina? 21) नेत्र लेंस और दृष्टिपटल के बीच में भरे द्रव का क्या कार्य है?

A) To provide the eye its density	A) नेत्र को उसका घनत्व प्रदान करने के लिए
B) To provide the eye its refraction	B) नेत्र को उसका अपवर्तन प्रदान करने के लिए
C) To provide the eye its beauty	C) नेत्र को उसकी सुंदरता प्रदान करने के लिए
D) To provide the eye its form and the shape	D) नेत्र को उसका स्वरूप और आकृति प्रदान करने के लिए

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822667

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation:

The function of liquid filled in the space between eye lens and retina is to provide the eye its form and the shape

Reference: Concept of physics HC Verma

Conclusion:

The final answer is option D. There is no change in the answer key

22) A small current is passed through a wire of 22) 10 m लंबे और एकसमान अनुप्रस्थ काट 5.0×10^{-7} length 10 m and uniform cross section 5.0×10^{-7} m² वाले तार में लघु धारा को प्रवाहित किया जाता है, और m², and its resistance is measured to be 2.5 Ω . तब इसका प्रतिरोध 2.5 Ω मापा जाता है। तार की Resistivity of the wire is प्रतिरोधकता ज्ञात कीजिए।

A) 12.5×10^{-7} Ωm	A) 12.5×10^{-7} Ωm
B) 0.125×10^{-7} Ωm	B) 0.125×10^{-7} Ωm
C) 125×10^{-7} Ωm	C) 125×10^{-7} Ωm
<u>D) 1.25×10^{-7} Ωm</u>	<u>D) 1.25×10^{-7} Ωm</u>

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822649

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

We have $R = \rho \frac{l}{A}$ putting the values from question resistivity $\rho = \frac{RA}{l} = 2.5 \times 5.0 \times \frac{10^{-7}}{10} = 1.25 \times 10^{-7}$ Ωm

Reference: Concept of physics HC Verma Volume 2nd

Conclusion:

The final answer is option D. There is no change in the answer key

23) A concave mirror has a focal length of 30 cm. 23) किसी अवतल दर्पण की फोकस दूरी 30 cm है। यदि कोई व्यक्ति दर्पण में अपना चेहरा देखना चाहता है, तो व्यक्ति को दर्पण से कितनी दूरी पर खड़ा होना चाहिए?

what distance from the mirror should the person stand?

A) 25 cm A) 25 cm
B) 40 cm B) 40 cm
C) 35 cm C) 35 cm
D) 30 cm D) 30 cm

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822641

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

The real image formed by a concave mirror is magnified if the object is placed between the focus and pole so 25 is correct.

Reference: Concept of physics HC verma Volume 1st

Conclusion:

The final answer is option A. There is no change in the answer key

24) The speed at which most medium sized wind turbines turn themselves off in winds to reduce wear and tear is 24) वायु की वह चाल ज्ञात कीजिए जिसमें ज्यादातर मध्यम आकार की पवन टरबाइन टूट-फूट की क्षति को कम करने के लिए तेज वायु में खुद को बंद कर लेती है।

- A) 55 m/s
- B)** 25 m/s
- C) 35 m/s
- D) 45 m/s

- A) 55 m/s
- B)** 25 m/s
- C) 35 m/s
- D) 45 m/s

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822654

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: D

Final Answer: B

Explanation:

The speed at which most medium sized wind turbines turn themselves off in winds to reduce wear and tear is 25m/s.

Reference: NCERT Science book.

Conclusion:

The final answer is option B. There is no change in the answer key

25) The sky looks blue on a clear sunny day 25) साफ धूप वाले दिनों में से किसके कारण because of आकाश नीला दिखाई देता है?

A) refraction of light	A) प्रकाश का अपवर्तन
<u>B)</u> scattering of light	<u>B)</u> प्रकाश का प्रकीर्णन
C) dispersion of light	C) प्रकाश का परिक्षेपण
D) reflection of light	D) प्रकाश का परावर्तन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822646

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation:

The sky looks blue on a clear sunny day because of scattering of light.

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option B. There is no change in the answer key

26) The procedure involving the fitting of a series of rigid contact lenses to reshape the cornea is 26) कॉर्निया को पुनः आकार देने के लिए दृढ़ संपर्क लेंस की एक श्रेणी को स्थापित करने की प्रक्रिया को क्या कहा जाता है?

- A) Laser epithelial keratomileusis
- B) Laser in situ keratomileusis
- C) Photorefractive keratectomy
- D) Orthokeratology**

- A) लेजर एपिथेलियल केराटोमिलेसिस
- B) लेजर इन-सीटू केराटोमिलेसिस
- C) फोटोरिफ्रेक्टिव केराटेक्टोमी
- D) ऑर्थोकेराटोलॉजी**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822643

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

The procedure involving the fitting of a series of rigid contact lenses to reshape the cornea is called orthokeratology.

Reference: NCERT Science book.

Conclusion:

The final answer is option D. There is no change in the answer key

27) What will happen when a ray of light is incident normally on a mirror? 27) क्या होगा जब प्रकाश किरण दर्पण पर अभिलंबवत आपतित होती है?

A) It is reflected back at the angle of 45 degree	A) वह 45 डिग्री के कोण पर वापस परावर्तित होता है
B) It is reflected back at the angle 60 degree	B) वह 60 डिग्री के कोण पर वापस परावर्तित होता है
C) It is reflected back at the angle of 30 degree	C) वह 30 डिग्री के कोण पर वापस परावर्तित होता है
D) It is reflected back along the same path	D) वह उसी पथ के अनुदिश वापस परावर्तित होता है

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822660

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

When a ray of light is incident normally on a mirror its reflect back along the same path.

Reference: Concept of physics HC Verma volume 1st

Conclusion:

The final answer is option D. There is no change in the answer key

28) Which of the following is property of good fuels? 28) निम्नलिखित में से कौन-सा एक अच्छे ईंधन का गुणधर्म है?

A) High calorific value and low ignition temperature A) उच्च ऊर्जीय मान और कम ज्वलन तापमान

B) Low calorific value and Medium ignition temperature B) निम्न ऊर्जीय मान और मध्यम ज्वलन तापमान

C) High calorific value and high ignition temperature C) उच्च ऊर्जीय मान और उच्च ज्वलन तापमान

D) High calorific value and Medium ignition temperature D) उच्च ऊर्जीय मान और मध्यम ज्वलन तापमान

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822663

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: D

Final Answer: D

Explanation:

A good should have high calorific value and Medium ignition temperature.

Reference: NCERT Science book.

Conclusion:

The final answer is option D. There is no change in the answer key

29) For nearby objects, eye lens is contracted and squeezed into a more convex shape by

29) निकट की वस्तुओं के लिए, नेत्र लेंस संकृचित होता है और उसे निम्नलिखित में से किसके द्वारा अधिक उत्तर आकृति में निष्पीड़ित किया जाता है?

A) fovea
 B) pupil
C) ciliary muscles
 D) sclera

A) गर्तिका
 B) नेत्र की पुतली
C) पद्धमाभी पेशियाँ
 D) श्वेतपटल

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822645

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation:

Ciliary muscles of eye lenses adjust its focal length according to distance of an object near or far.

Reference: Concept of physics HC Verma Volume 1st

Conclusion:

The final answer is option C. There is no change in the answer key

30) Joules law of heating effect of current states 30) धारा के ऊष्मीय प्रभाव का जूल नियम कहता है कि that heat produced (H) in a conductor of प्रतिरोध (R) के चालक में उत्पन्न ऊष्मा (H) को समय (t) के resistance (R) when a current (I) flows through it लिए प्रवाहित होने वाली धारा (I) को निम्नलिखित में से किस for time (t) is given by व्यंजक द्वारा व्यक्त किया जाता है?

A) $H = Irt$	A) $H = Irt$
B) $H = IR/t$	B) $H = IR/t$
C) $H = IR^2t$	C) $H = IR^2t$
<u>D) $H = I^2Rt$</u>	<u>D) $H = I^2Rt$</u>

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822651

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: D

Final Answer: D

Explanation:

The above is a well-established formula which derivation can be seen in the below reference.

Reference: Concept of physics HC Verma Volume 2nd

Conclusion:

The final answer is option D. There is no change in the answer key

31) According to the vital force theory, "Carbon 31) महत्वपूर्ण बल सिद्धांत के अनुसार, "कार्बन यौगिकों का compounds could be produced only under the उत्पादन केवल जीवित जीवों में मौजूद अज्ञात प्रकृति के कुछ influence of some mysterious "vital force" of रहस्यमय "महत्वपूर्ण बल" के प्रभाव में ही हो सकता है।" इसे unknown nature, present only in living किसने सुझाया था organisms". Who proposed it?

organisms". Who proposed it?

A) કોલ્બે

A) Kolbe

B) बर्जेलियस

B) Berzelius

C) रदरफोर्ड

C) Rutherford

D) फ्रेडरिक वूलर

D) Fredrick wooler

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822199

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation: Berzilius, a Swedish chemist proposed that a 'vital force' was responsible for the formation of organic compounds.

Reference- <https://ncert.nic.in/textbook/pdf/kech205.pdf> Page no-1/39

Conclusion: The final answer is option B. There is no change in the answer key.

32) Gastric juice secreted in stomach contains 32) उदर में स्रावित जठर रस में होता है

(i) acidic pH
 (ii) basic pH
 (iii) neutral pH

Choose the CORRECT option from the options given.

A) केवल (iii)
B) केवल (i)
 C) केवल (ii)
 D) (ii) और (iii) दोनों

A) (iii) only
B) (i) only
 C) (ii) only
 D) (ii) and (iii) only

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822213

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation: Gastric juice contains HCl which renders the gastric juice acidic pH. pH of Gastric juice varies between 1.0-2.0.

Reference- <https://www.biologyonline.com/dictionary/gastric-juice>

Conclusion: The final answer is option B. There is no change in the answer key

33) Gasol is a mixture of

- A) Alcohol and Diesel
- B) Alcohol and Petrol**
- C) Petrol and Kerosene
- D) Alcohol and Kerosene

33) गैसोल निम्नलिखित में से किसका उदाहरण है?

- A) ऐल्केहॉल और डीजल
- B) ऐल्केहॉल और पेट्रोल**
- C) पेट्रोल और मिट्टी का तेल
- D) ऐल्केहॉल और मिट्टी का तेल

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822198

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation: Gasol is a mixture of petrol and alcohol.

Reference- <https://www.doubtnut.com/pcmb-questions/what-is-gasol--34879>

Conclusion: The final answer is option B. There is no change in the answer key

34) The Hall-Heroult method of electrolysis is used for isolation of

- A) Aluminium
- B) Gold
- C) Copper
- D) Silver

A) एल्युमिनियम

B) सोना

C) कॉपर

D) चाँदी

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822209

Number of Claims: 2

Declared Answer Key: A

Candidate Claim: C

Final Answer: A

Explanation: In the Hall-Héroult smelting process, a nearly pure aluminum oxide compound called alumina is dissolved at 950 °C (1,750 °F) in a molten electrolyte composed of aluminum, sodium, and fluorine; this is electrolyzed to give aluminum metal at the cathode and oxygen gas at the anode.

Reference- <https://www.britannica.com/technology/Hall-Heroult-process>

Conclusion: The final answer is option A. There is no change in the answer key

35) Methyl orange indicator gives which of the following colour in an acid solution? 35) मेथिल ऑरेंज सूचक अम्लीय विलयन में निम्नलिखित में से कौन-सा रंग देता है?

A) Pink	A) गुलाबी
<u>B)</u> Red	<u>B)</u> लाल
C) Yellow	C) पीला
D) Orange	D) नारंगी

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822216

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation: Methyl orange gives red colour in acidic medium.

Reference- <https://testbook.com/question-answer/methyl-orange-indicator-gives-yellow-color-in-which-solution>

5f030f0765c0ee13b3c8aeb2#:~:text=Methyl%20orange%20indicator%20gives%20red,color%20in%20a%20basic%20solution.

Conclusion: The final answer is option B. There is no change in the answer key

36) When crystals of copper sulphate are heated 36) जब कॉपर सल्फेट के क्रिस्टलों को गर्म किया जाता है, तो it turns into ये परिवर्तित हो जाते हैं

A) blue colour	A) नीले रंग में
B) white colour	B) सफेद रंग में
C) pink colour	C) गुलाबी रंग
D) green colour	D) हरे रंग में

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822217

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: D

Final Answer: B

Explanation: Hydrated copper sulphate is blue coloured crystals. On heating, blue coloured copper sulphate crystals become white. Heating turns crystals of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ into anhydrous CuSO_4 crystals which are colourless.

Reference- <https://www.vedantu.com/question-answer/happens-when-copper-sulphate-crystals-are-heated-class-11-chemistry-cbse-60a343b76f51e47462f1c1a2>

Conclusion: The final answer is option B. There is no change in the answer key

37) Aspirin is prepared by using

- A) Salicylic acid
- B) Sulphuric acid
- C) Acetic acid
- D) Hydrochloric acid

37) ऐस्परिन को निम्नलिखित द्वारा तैयार किया जाता है

- A) सैलिसिलिक अम्ल
- B) सल्फूरिक अम्ल
- C) ऐसीटिक अम्ल
- D) हाइड्रोक्लोरिक अम्ल

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822218

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation: Aspirin is prepared by chemical synthesis from salicylic acid, through acetylation with acetic anhydride.

Reference- <https://www.aspirin-foundation.com/history/chemistry/>

Conclusion: The final answer is option A. There is no change in the answer key

38) Aluminosilicate minerals are minerals composed of Aluminium, Silicon and

38) एल्युमिनोसिलिकेट खनिज, एल्यूमिनियम, सिलिकॉन और निम्नलिखित में से किससे बना खनिज है?

- A) Carbon
- B) Oxygen**
- C) Nitrogen
- D) Hydrogen

- A) कार्बन
- B) ऑक्सीजन**
- C) नाइट्रोजन
- D) हाइड्रोजन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822208

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: None of These

Final Answer: B

Explanation: A zeolite is a hydrated aluminosilicate mineral with a structure characterized by a framework of linked tetrahedra, each consisting of four oxygen atoms surrounding a silicon or aluminium cation.

Reference- <https://www.sciencedirect.com/topics/chemistry/aluminosilicate-mineral>

Conclusion: The final answer is option B. There is no change in the answer key

39) The litmus solution is extracted from a plant 39) लिटमस विलयन एक पादप से प्राप्त किया जाता है, जो which is a कि एक

A) brown dye	A) भूरा रंजक है
<u>B)</u> purple dye	<u>B)</u> बैंगनी रंजक है
C) yellow dye	C) पीला रंजक है
D) green dye	D) हरा रंजक है

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822211

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation: Litmus solution is a purple dye, which is extracted from lichens, Thallophyta. It is an indicator.

Reference- <https://testbook.com/question-answer/litmus-can-be-extracted-from--5fa3bc324e4af1ed31f41e18#:~:text=The%20correct%20answer%20is%20Lichens.&text=Litmus%20solution%20is%20a%20purple,commonly%20used%20as%20an%20indicator.>

Conclusion: The final answer is option B. There is no change in the answer key

40) Rancidity in oils and fats is due to

- A) Reduction
- B) Oxidation**
- C) Combination reaction
- D) Substitution reaction

40) तेल और वसा में विकृतगंधिता निम्नलिखित में से किसके कारण होती है?

- A) अपचयन
- B) ऑक्सीकरण**
- C) संयोजन अभिक्रिया
- D) प्रतिस्थापन अभिक्रिया

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822194

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation: **Rancidity**, condition produced by aerial oxidation of unsaturated fat present in foods and other products, marked by unpleasant odour or flavour.

Reference- <https://www.britannica.com/science/rancidity>

Conclusion: The final answer is option B. There is no change in the answer key

41) Identify the following statements as TRUE or FALSE. 41) निम्नलिखित कथनों की सत्य या असत्य के रूप में पहचान कीजिए।

(i) Hydrophilic means "water loving"

(i) जलरागी का अर्थ है "जल से स्नेह करने वाला"

(ii) Hydrophobic means "water hating"

(ii) जलविरागी का अर्थ है "जल से नफरत करने वाला"

(iii) Coke is obtained by destructive distillation of coal जाता है

(iii) कोयले के हानिकारक आसवन द्वारा कोक प्राप्त किया

A) (i)- TRUE; (ii) - FALSE; (iii) - TRUE

A) (i)- सत्य; (ii) - असत्य; (iii) - सत्य

B) (i)- FALSE; (ii) - TRUE; (iii) - TRUE

B) (i)- असत्य; (ii) - सत्य; (iii) - सत्य

C) (i)- TRUE; (ii) - TRUE; (iii) - FALSE

C) (i)- सत्य; (ii) - सत्य; (iii) - असत्य

D) (i)- TRUE; (ii) - TRUE; (iii) - TRUE

D) (i)- सत्य; (ii) - सत्य; (iii) - सत्य

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822202

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation: Coke is obtained from destructive distillation of coal, and charcoal from destructive distillation of substance other than coal (like wood and animal bones), are both the same thing, with charcoal having higher impurity than coke. Hydrophilic means water loving and hydrophobic means water-hating.

Reference- <https://chemistry.stackexchange.com/questions/156222/are-coke-solid-fuel-from-coal-and-charcoal-same-thing-obtained-from-different>

Conclusion: The final answer is option D. There is no change in the answer key

42) Potassium ferricyanide is an example for

A) Gel

B) Acid

C) Base

D) Salt

42) पोटैशियम फेरिसायनाइड निम्नलिखित में से किसका उदाहरण है?

A) जेल

B) अम्ल

C) धार

D) लवण

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822215

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation: Potassium hexacyanoferrate(3-) is a potassium salt and a hexacyanoferrate(3-) salt.

Reference- <https://pubchem.ncbi.nlm.nih.gov/compound/Potassium-ferricyanide>

Conclusion: The final answer is option D. There is no change in the answer key

43) Pure ethanol (Rectified spirit) acts as

- A) rehydrating agent
- B) carboxylating agent
- C) decarboxylating agent
- D) dehydrating agent**

43) शुद्ध ऐथेनॉल (परिशोधित स्पिरिट) निम्नलिखित में से किसके रूप में कार्य करता है?

- A) पुनर्जलीकरण अभिकर्मक
- B) कार्बोकिंजलीकरण अभिकर्मक
- C) विकार्बोकिंजलीकरण अभिकर्मक
- D) निर्जलीकरण अभिकर्मक**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822197

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation: Ethanol acts as an osmolyte or dehydrating agent that disrupts the osmotic balance across cell membranes.

Reference- <https://pubchem.ncbi.nlm.nih.gov/compound/Ethanol#section=Mechanism-of-Action>

Conclusion: The final answer is option D. There is no change in the answer key

44) Soft and pure iron can be made hard and 44) मूदु और शुद्ध लोहे को निम्नलिखित में से किसके मिश्रण strong by mixing of से कठोर और सुदृढ़ बनाया जा सकता है?

A) Hydrogen	A) हाइड्रोजन
B) Helium	B) हीलियम
C) Nitrogen	C) नाइट्रोजन
D) Carbon	D) कार्बन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822207

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation: Pure iron and steel are an inherently soft materials. They are easily formed and quite ductile. The addition of carbon into the melt furnace imparts rigidity to the iron crystal structure resulting in a stronger although more brittle material.

Reference- <https://www.sciencedirect.com/topics/engineering/pure-iron>

Conclusion: The final answer is option D. There is no change in the answer key

45) If a substance or chemical loses hydrogen 45) यदि कोई पदार्थ या रसायन अभिक्रिया के दौरान during reaction, then the substance is said to be हाइड्रोजन त्याग देता है, तो तब उस पदार्थ को कहा जाता है

A) reduced	A) अपचयित
B) melted	B) गलित
C) sublimised	C) ऊर्ध्वपातित
D) oxidised	D) आॅक्सीकृत

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822191

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation: The term “oxidation” is defined as the addition of oxygen/electronegative element to a substance or removal of hydrogen/ electropositive element from a substance.

Reference-<https://ncert.nic.in/textbook/pdf/kech201.pdf> Page no-2/21

Conclusion: The final answer is option D. There is no change in the answer key

46) Which of the following is NOT an allotropic form of carbon? 46) निम्नलिखित में से कौन कार्बन का अपररूप नहीं है?

- A) Graphite
- B) Diamond
- C) Lead
- D) Coal

A) ग्रेफाइट

B) हीरा

C) सीसा

D) कोयला

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822195

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation: The three best-known carbon allotropes are amorphous carbon (such as coal and soot), graphite, and diamond. Lead is not an allotrope of carbon.

Reference-<https://phys.org/news/2011-04-carbon-allotrope-variety-applications.html>

Conclusion: The final answer is option C. There is no change in the answer key

47) The Sun's heat is due to which of the following reactions occurring in the interior of the sun?

- A) Nuclear fission reaction
- B) Displacement reaction
- C) Nuclear fusion reaction
- D) Double displacement reaction

A) नाभिकीय विखंडन अभिक्रिया

B) प्रतिस्थापन अभिक्रिया

C) नाभिकीय संलयन अभिक्रिया

D) द्वि-प्रतिस्थापन अभिक्रिया

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822192

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation: The energy from the Sun - both heat and light energy - originates from a nuclear fusion process that is occurring inside the core of the Sun. The specific type of fusion that occurs inside of the Sun is known as proton-proton fusion.

Reference- https://energyeducation.ca/encyclopedia/Nuclear_fusion_in_the_Sun

Conclusion: The final answer is option C. There is no change in the answer key

48) Allotropic form of carbon which conducts electricity is 48) कार्बन के उस अपररूप का नाम बताइए जो विद्युत का चालन करता है

- A) Graphite
- B) Diamond
- C) Charcoal
- D) Fullerene

- A) ग्रेफाइट
- B) हीरा
- C) चार्कोल
- D) फुलरीन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822203

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation: Graphite is also a very good conductor of electricity because of the presence of free electrons which aids in conduction of electricity.

Reference- <https://ncert.nic.in/textbook/pdf/jesc104.pdf>

Conclusion: The final answer is option A. There is no change in the answer key

49) Number of carbon atoms in a heptane are

- A) 5
- B) 7**
- C) 6
- D) 8

49) एक हेप्टेन में कार्बन परमाणुओं की संख्या है

- A) 5
- B) 7**
- C) 6
- D) 8

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822200

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation: Heptane is a straight-chain alkane with seven carbon atoms. It has been found in Jeffrey pine (*Pinus jeffreyi*). It has a role as a non-polar solvent and a plant metabolite. It is a volatile organic compound and an alkane.

Reference- <https://pubchem.ncbi.nlm.nih.gov/compound/Heptane>

Conclusion: The final answer is option B. There is no change in the answer key

50) Soap fails to give good lather in

- A) distilled water
- B) hard water**
- C) hot water
- D) heavy water

50) साबुन निम्नलिखित में से किसमें अच्छा झाग नहीं दे पाते हैं?

- A) आसुत जल
- B) कठोर जल**
- C) गर्म जल
- D) भारी जल

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822196

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation: Presence of calcium and magnesium salts in the form of hydrogen carbonate, chloride and sulphate in water makes water 'hard'. Hard water does not give lather with soap.

Reference- <https://ncert.nic.in/textbook/pdf/kech202.pdf>

Conclusion: The final answer is option B. There is no change in the answer key

51) Which among the following is a strong acid? 51) निम्नलिखित में से कौन-सा एक प्रबल अम्ल है?

A) Tartaric acid	A) टार्टारिक अम्ल
B) Citric acid	B) सिट्रिक अम्ल
C) Acetic acid	C) एसिटिक अम्ल
<u>D) Sulphuric acid</u>	<u>D) सल्फ्यूरिक अम्ल</u>

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822220

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation: Generally inorganic acids like sulphuric acid, nitric acid, Hydrochloric acid donate proton very easily when dissolved in water whereas organic acids like citric acid, acetic acid, tartaric acid donot generate protons easily.

Reference-

[https://chem.libretexts.org/Bookshelves/Physical_and_Theoretical_Chemistry_Textbook_Maps/Supplemental_Modules_\(Physical_and_Theoretical_Chemistry\)/Equilibria/Acid-Base_Equilibria/2._Strong_and_Weak_Acids](https://chem.libretexts.org/Bookshelves/Physical_and_Theoretical_Chemistry_Textbook_Maps/Supplemental_Modules_(Physical_and_Theoretical_Chemistry)/Equilibria/Acid-Base_Equilibria/2._Strong_and_Weak_Acids)

Conclusion: The final answer is option D. There is no change in the answer key

52) An acid turns

- A) yellow litmus to blue
- B) red litmus to blue
- C) yellow litmus to red
- D) blue litmus to red

52) अम्ल परिवर्तित कर देता है

- A) पीले लिटमस को नीले में
- B) लाल लिटमस को नीले में
- C) पीले लिटमस को लाल में
- D) नीले लिटमस को लाल में

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822210

Number of Claims: 1

Declared Answer Key: D

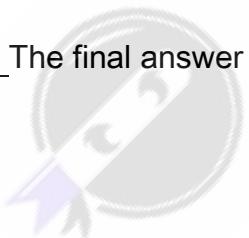
Candidate Claim: A

Final Answer: D

Explanation: Acids are sour in taste and change the colour of blue litmus to red.

Reference: <https://ncert.nic.in/textbook/pdf/jesc102.pdf>

Conclusion: The final answer is option D. There is no change in the answer key



53) Two hydrocarbons differ by $-CH_2$ in their structures are referred as 53) दो हाइड्रोकार्बन अपनी संरचनाओं में $-CH_2$ द्वारा भिन्न हैं, उन्हें कहा जाता है

- A) Homologous series
- B) Heterogenous mixture
- C) Heterogenous series
- D) Homologous mixture

- A) सजातीय श्रेणी
- B) विजातीय मिश्रण
- C) विजातीय श्रेणी
- D) सजातीय मिश्रण

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822201

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation: In a Homologous series, two adjacent hydrocarbons differ by $-CH_2$ group.

Reference- <https://ncert.nic.in/textbook/pdf/jesc104.pdf> page no-9/21

Conclusion: The final answer is option A. There is no change in the answer key

54) Acid used in the removal of the unreacted silicon oxide during the extraction of amorphous silicon is

54) अक्रिस्टलीय सिलिकॉन के निष्कर्षण के दौरान निष्क्रियशील सिलिकॉन ऑक्साइड को हटाने में प्रयुक्त होने वाला अम्ल है

A) Hydrochloric acid

B) Hydrofluoric acid

C) Sulphuric acid

D) Nitric acid

A) हाइड्रोक्लोरिक अम्ल

B) हाइड्रोफ्लोरिक अम्ल

C) सल्फ्यूरिक अम्ल

D) नाइट्रिक अम्ल

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822206

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation: Hydrofluoric acid (HF) and 25% CH₃COOH (60-70°C) to remove the remaining Mg₂SiO₄, unreacted SiO₂ and other metallic impurities.

Reference-

https://tspace.library.utoronto.ca/bitstream/1807/25788/3/Sadique_Sarder_E_201011_MASc_thesis.pdf

Conclusion: The final answer is option B. There is no change in the answer key

55) The smallest amino acid is

- A) Tyrosine
- B) Alanine
- C) Phenylalanine
- D) Glycine

55) सबसे छोटा अमीनो अम्ल है

- A) थायरोसिन
- B) ऐलानाइन
- C) फेनिलऐलानाइन
- D) ग्लाइसिन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822219

Number of Claims: 1

Declared Answer Key: D

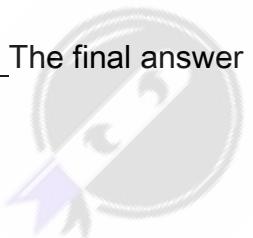
Candidate Claim: B

Final Answer: D

Explanation: Glycine is the simplest and smallest aminoacid.

<https://ncert.nic.in/textbook/pdf/lech205.pdf> Page no- 10/22

Conclusion: The final answer is option D. There is no change in the answer key



56) Reaction of ethanoic acid with ethanol (in 56) ऐथेनॉल (अम्लीय उत्प्रेरक की उपस्थिति में) के साथ presence of acid catalyst) results in the ऐथेनॉइक अम्ल की अभिक्रिया के परिणामस्वरूप formation of निम्नलिखित में से किसका निर्माण होता है?

A) Ester	A) ईथर
B) Ethane	B) ऐथेन
C) Ethene	C) ऐथीन
D) Methane	D) मेथेन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822205

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation: An acid reacts with alcohol and loses water molecule to form esters.

Reference- <https://ncert.nic.in/textbook/pdf/lech203.pdf> Page no-26/32

Conclusion: The final answer is option A. There is no change in the answer key

57) Formula of carboxylic acid functional group 57) कार्बोक्सिलिक अम्ल के क्रियात्मक समूह का सूत्र है is

- A) OH
- B) CO
- C) CHO
- D) COOH
- D) COOH

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822204

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: D

Final Answer: D

Explanation: Functional group of carboxylic acid is -COOH

Reference- <https://ncert.nic.in/textbook/pdf/lech203.pdf> Page no-1/32

Conclusion: The final answer is option D. There is no change in the answer key

58)) Identify the following statements as TRUE 58) निम्नलिखित कथनों की पहचान सत्य या असत्य के रूप or FALSE. में कीजिए।

(i) Boric acid is used as antiseptic in eye lotions (i) आँखों के लोशन में बोरिक अम्ल का पूतिरोधी के रूप में प्रयोग किया जाता है।

(ii) Hydrofluoric acid is used to prevent scurvy (ii) स्कर्वी की रोकथाम के लिए हाइड्रोफ्लोरिक अम्ल का उपयोग किया जाता है।

(iii) Chromic acid is used for cleaning glass apparatus (iii) काँच के उपकरण की सफाई के लिए क्रोमिक अम्ल का उपयोग किया जाता है।

(iv) Vinegar is used as preservative in pickles (iv) सिरके का अचार में परिरक्षक के रूप में प्रयोग किया जाता है।

A) (i) - TRUE; (ii) - TRUE; (iii) - TRUE; (iv) - FALSE

B) (i) - TRUE; (ii) - TRUE; (iii) - TRUE; (iv) - TRUE

C) (i) - TRUE; (ii) - FALSE; (iii) - TRUE; (iv) - TRUE

D) (i) - TRUE; (ii) - FALSE; (iii) - TRUE; (iv) - FALSE

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822214

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation: Boric acid is used as an antiseptic in eye lotions.

Chromic acid used for cleaning glass apparatus.

Hydrofluoric acid is not used to prevent scurvy. Vitamin C rich foods are used to prevent scurvy.

Vinegar because of its acetic acid content is used as preservative in pickles.

Reference- <https://www.healthline.com/health/boric-acid-eye-wash#about-boric-acid>

<https://www.sciencedirect.com/topics/food-science/vinegar#:~:text=Finally%2C%20because%20of%20its%20acetic,fish%20products%2C%20and%20spiced%20fruits.>

<https://dec.vermont.gov/sites/dec/files/wsm/wastewater/docs/GlassCleaning.pdf>

Conclusion: The final answer is option C. There is no change in the answer key



59) The colour of ferrous sulphate crystals is

A) Blue

B) Green

C) White

D) Black

59) फेरस सल्फेट क्रिस्टल का रंग होता है

A) नीला

B) हरा

C) सफेद

D) काला

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822193

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation: The color of ferrous sulphate crystals is green.

Reference- <https://ncert.nic.in/textbook/pdf/jesc101.pdf> Page no-8/16

Conclusion: The final answer is option B. There is no change in the answer key.

60) If carbon dioxide is passed through lime water, lime water colour changes to
60) यदि कार्बन डाइऑक्साइड को चूने के पानी में प्रवाहित किया जाता है, तो चूने के पानी का रंग किसमें परिवर्तित हो जाता है?

A) brown dye

B) black

C) red

D) white

A) भूरा रंजक

B) काला

C) लाल

D) सफेद

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822212

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation: When carbondioxide is passed into lime water, it turns lime water milky. Basic principle used in white washing of walls.

Reference- <https://ncert.nic.in/textbook/pdf/jesc101.pdf> Page no-7/16

Conclusion: The final answer is option D. There is no change in the answer key

61) Phototropic movements of a plant are generally 61) एक पौधे की प्रकाश-प्रवर्तक गतियाँ सामान्यतः क्या होती हैं

- A)** responsive to light
- B) multidirectional
- C) responsive to gravity
- D) responsive to chemical stimulus

- A)** प्रकाश के प्रति संवेदक
- B) बहुदिशात्मक
- C) गुरुत्वाकर्षण के प्रति संवेदक
- D) रासायनिक उद्दीपन के प्रति संवेदक

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822083

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation: responsive to light is the correct answer,

Phototropism is the growth of an organism in response to a light stimulus., from NCERT Text Book

Conclusion:

The final answer is option A. There is no change in the answer key



62) Which of the following is considered as a chemical method of contraception? 62) निम्नलिखित में से किसे गर्भनिरोधक की रासायनिक विधि माना जाता है?

- A) Birth control pills
- B) Using diaphragm
- C) Menstruation
- D) Grafting

- A) गर्भनिरोधक गोलियाँ
- B) डायाफ्राम का उपयोग करना
- C) ऋतुसाव
- D) ग्राफिंग

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822088

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: None of These

Final Answer: A

Explanation: Birth control pills (BCPs) contain man-made forms of 2 hormones called estrogen and progestin. Chemical barriers or spermicides are sperm-killing substances, available as foams, creams, gels used to kill the sperms

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key



63) In human males, the number of chromosomes are represented as: (Here A--> Autosomes and XY-->a pair of sex chromosomes)

A) 22 pairs of A + XY

B) 22 pairs of A

C) 24 pairs of A + XY

D) 23 pairs of XY

63) मानव पुरुषों में, गुणसूत्रों की संख्या को किस प्रकार दर्शाया जाता है: (यहाँ A--> अलिंग क्रोमोसोम और XY-->सेक्स गुणसूत्रों की एक जोड़ी)

A) A + XY के 22 जोड़े

B) A के 22 जोड़े

C) A + XY के 24 जोड़े

D) XY के 23 जोड़े

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822092

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: C

Final Answer: A

Explanation: Human females have two X **chromosomes** while **males** possess an XY pairing. This XY sex-determination system is found in males. Reference is from NCERT Text Book

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key



64) What is the role of platelets in a human body? 64) मानव शरीर में प्लेटलेट्स की क्या भूमिका है?

- A)** Clotting of blood
- B) Carbon dioxide transport
- C) Oxygen transport
- D) Giving immunity to the body

- A)** रुधिर का थक्का जमना
- B) कार्बन डाइऑक्साइड परिवहन
- C) ऑक्सीजन परिवहन
- D) शरीर को रोग प्रतिरोधक क्षमता प्रदान करना

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822076

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: None of These

Final Answer: A

Explanation: A is correct.. Primary function of the platelet is thought to be hemostasis, thrombosis, and wound healing, which is blood clotting in humans

From NCERT book, Option A is correct

Conclusion: The final answer is option A. There is no change in the answer key



65) Which part of the flower ripens to form a fruit? 65) फूल का कौन सा भाग पक कर फल बनता है?

- A) Ovule
- B) Carpel
- C) Ovary**
- D) Stamen

- A) बीजांड
- B) अंडप
- C) अंडाशय**
- D) पंकेसर

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822084

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation: A fertilized *flower* gives rise to a *fruit*. A *fruit* is defined as a *ripened ovary*. It protects the seeds which helps in its dispersal too.

Option C is correct, from NCERT

Conclusion: The final answer is option C. There is no change in the answer key



66) It is important in Grafting to ensure that both the cambium layers of scion and stock are in contact. Which of the following options is the CORRECT reason for this?

- A) The scion shouldn't get infected by plant diseases
- B) The stock doesn't slip away from the scion
- C) The cambium layer avoids unwanted vegetative growth
- D) The cambium layer in scion is responsible for growth**

66) ग्राफिंग में यह सुनिश्चित करना महत्वपूर्ण है कि स्कोन और स्टॉक की दोनों कैंबियम परतें संपर्क में हैं। निम्नलिखित में से कौन सा विकल्प इसका सही कारण है?

- A) स्कोन पौधों की बीमारियों से संक्रमित नहीं होना चाहिए
- B) स्टॉक स्कोन से फिसल न जाए
- C) कैम्बियम परत अवांछित वनस्पति विकास से बचाती है
- D) स्कोन में कैंबियम परत विकास के लिए जिम्मेदार है**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822097

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation: For successful grafting to take place, the vascular cambium tissues of the stock and scion plants leads to be successful. The cambium produces conductive tissue for the actively growing plant

Option D is correct, NCERT book

Conclusion: The final answer is option D. There is no change in the answer key



67) The released energy obtained by the oxidation of glucose is generally stored as 67) ग्लूकोज के ऑक्सीकरण द्वारा प्राप्त मुक्त ऊर्जा को सामान्यतः किस रूप में संग्रहित किया जाता है?

- A) ATP
- B) NAD+
- C) RNA
- D) DNA

- A) एटीपी
- B) एनएडी+
- C) आरएनए
- D) डीएनए

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822077

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation: ATP is the energy currency of the cell obtained by the oxidation of glucose.

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key



68) The structure which provides nutrition to the developing foetus is 68) विकासशील भ्रूण को पोषण प्रदान करने वाली संरचना कौन सी है

- A) Fallopian Tube
- B) Seminal Vesicle
- C) Placenta**
- D) Ovary

- A) डिंबवाहिनी
- B) शुक्राशय
- C) प्लैसेंटा**
- D) अंडाशय

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822090

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: C

Final Answer: C

Explanation: Yes, correct answer is Placenta. This structure provides oxygen and nutrients to the growing baby and removes waste products from the baby's blood.

Option C is correct, NCERT

Conclusion: The final answer is option C. There is no change in the answer key



69) Fingers in human beings are an example of

- A) inheritance
- B) speciation
- C) variation**
- D) adaptation

69) मनुष्य में उंगलियां किसका उदाहरण हैं

- A) आनुवंशिकी
- B) जाति उद्भवन
- C) विभिन्नता**
- D) अनुकूलन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822093

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation: A characteristic that changes gradually over a range of values shows **continuous variation**. Here Fingers is the correct answer showing variation. It is the modification in structure, form or function in an organism, deviating from other organisms of the same species or group.

Option C is correct, NCERT

Conclusion: The final answer is option C. There is no change in the answer key



70) Which of the following is NOT a part of the female reproductive system in human beings? 70) निम्नलिखित में से कौन सा मानव में मादा प्रजनन प्रणाली का हिस्सा नहीं है?

- A) Fallopian tube
- B) Uterus
- C) Vas deferens**
- D) Ovary

- A) डिंबवाहिनी
- B) गर्भाशय
- C) शुक्रवाहिका**
- D) अंडाशय

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822089

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation: Vasa deferens is the part of the male reproductive system.

Option C is correct, NCERT

Conclusion: The final answer is option C. There is no change in the answer key



71) Movement of food through oesophagus is due to 71) ग्रसिका के माध्यम से भोजन की गति किसके कारण होती है

- A) gravitational pull
- B) enzymes
- C) lubrication by saliva
- D) peristalsis**

A) गुरुत्वीय खिंचाव

B) एंजाइम

C) लार द्वारा स्नेहन

D) क्रमाकुंचन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822071

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation: Yes, Peristalsis is right. Peristaltic waves occur in the esophagus, stomach, and intestines., involuntary movements of the longitudinal and circular muscles leading to the movement.

Option D is correct, NCERT

Conclusion: The final answer is option D. There is no change in the answer key



72) Most of the fat digestion occurs in the

- A) rectum
- B) duodenum
- C) small intestine**
- D) stomach

72) वसा का अधिकांश पाचन कहाँ होता है

- A) मलाशय
- B) ग्रहणी
- C) छोटी आंत**
- D) आमाशय

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822078

Number of Claims: 2

Declared Answer Key: C

Candidate Claim: None of These

Final Answer: C

Explanation: The bulk of fat digestion takes place in the small intestine with the release of bile from the gallbladder and enzymes from the pancreas which leads to emulsification of fats

Option C is correct, NCERT

Conclusion: The final answer is option C. There is no change in the answer key



73) The 'testes' that is the male reproductive organ in a human body performs which of the following functions?

- A) Production of testosterone only
- B) Production of sperms only
- C) Production of both sperms and testosterone**
- D) Production of both sperms and progesterone

- A) केवल टेस्टोस्टेरोन का उत्पादन
- B) केवल शुक्राणुओं का उत्पादन
- C) शुक्राणु और टेस्टोस्टेरोन दोनों का उत्पादन**
- D) शुक्राणु और प्रोजेस्टेरॉन दोनों का उत्पादन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822085

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation: Yes the option is correct. The testes are responsible for making testosterone, the primary male sex hormone, and for producing sperm which is the male gamete in males.

Option C is correct, NCERT

Conclusion: The final answer is option C. There is no change in the answer key



74) Hydra is an organism that reproduces asexually 74) हाइड्रा एक जीव, अलैंगिक रूप से प्रजनन कैसे करता है by

- A) Vegetative propagation
- B) Multiple fission
- C) Binary fission
- D) Budding**

- A) कायिक प्रवर्धन
- B) बहुखंडन
- C) द्विखंडन
- D) मुक्लन**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822086

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: D

Final Answer: D

Explanation: Yes **Hydra produces asexual reproduction by budding.** Budding is the reproduction technique which produces new young hydra from the small part of the parent body seen in this organism.

Option D correct, NCERT

Conclusion: The final answer is option D. There is no change in the answer key



75) Renal cortex contains cup like structures termed as: 75) वृक्क क्षेत्र में कप जैसी संरचनाएं होती हैं उन्हें क्या कहा जाता है:

- A) Renal capsule
- B) Glomerulus capsule
- C) Loop of Henle
- D) Bowman's capsule**

- A) वृक्क कैप्सूल
- B) ग्लोमेरुलस कैप्सूल
- C) हेनले लूप
- D) बोमन कैप्सूल**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822073

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: D

Final Answer: D

Explanation: Bowman's capsule, Bowman capsule, glomerular capsule, renal corpuscular capsule, or capsular glomeruli, double-walled cuplike structure that makes up part of the nephron and renal cortex contains this structure.

Option D is correct, NCERT

Conclusion: The final answer is option D. There is no change in the answer key



76) Chlamydiosis is related with

- A)** urethra
- B) gonorrhoea
- C) syphilis
- D) HIV

76) क्लैमाइडियोसिस किसके साथ संबंधित है

- A)** मूत्रमार्ग
- B) गोनेरिया
- C) सिफ्लिस
- D) एचआईवी

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822091

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation: Chlamydia is a common sexually transmitted disease in both men woman. It is caused by bacteria called Chlamydia trachomatis.. Women can get chlamydia in the cervix, rectum and vagina.

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key



77) A gland which is a dual gland that has both exocrine and endocrine functions is:

- A) Thymus gland
- B) Pancreas**
- C) Adrenal
- D) Pineal gland

- A) थाइमस ग्रंथि
- B) अग्न्याशय**
- C) अधिवृक्क
- D) पिनियल ग्रंथि

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822080

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation: Pancreas is a dual gland. The pancreas is a mixed or heterocrine gland. It has both an endocrine and a digestive exocrine function. 99% of the pancreas is exocrine and 1% is endocrine. Pancreas located in the abdomen behind the stomach and functions as a gland.

Option B is correct, NCERT

Conclusion: The final answer is option B. There is no change in the answer key



78) Which of the following statements is FALSE with reference to characteristic features of root hairs? 78) मूल रोमों की विशिष्ट विशेषताओं के संदर्भ में निम्नलिखित में से कौन सा कथन गलत है?

- A) They are always unbranched
- B)** They are heavily cutinised
- C) They are generally unicellular
- D) They are short lived

- A) वे हमेशा अशाखित होते हैं
- B)** वे भारी क्यूटिनमय होते हैं
- C) वे आम तौर पर एककोशिकीय होते हैं
- D) वे अल्पकालिक हैं

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822094

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: D

Final Answer: B

Explanation: Option B correct. Root hairs are tubular outgrowths of epiblema cells, and are not cutinised.

Option B, NCERT

Conclusion: The final answer is option B. There is no change in the answer key



79) The term juvenile phase of a plant represents 79) पौधे का किशोर चरण शब्द निम्नलिखित में से किस चरण
which phase among the following? का प्रतिनिधित्व करता है?

- A) Birth**
- B) Stationary
- C) Lag
- D) Death

- A) जन्म**
- B) स्थिर
- C) पिछड़ना
- D) मृत्यु

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822087

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: C

Final Answer: A

Explanation: Yes, Juvenile phase is the first phase of the 3 phases, and the birth phase of the plant

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key



80) Which of the following is a part of the brain that controls thinking? 80) निम्नलिखित में से कौन-सा मस्तिष्क का वह भाग है जो सोच को नियंत्रित करता है?

- A) Forebrain
- B) Midbrain
- C) Spinal cord
- D) Hindbrain

- A) अग्र मस्तिष्क
- B) मध्य मस्तिष्क
- C) मेरुरज्जु
- D) पश्च मस्तिष्क

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822082

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: C

Final Answer: A

Explanation: The cerebrum is the *thinking part of the brain* and it *controls* your voluntary muscles and it is in the forebrain

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key



81) The structure associated with both, the nervous system and endocrine system is 81) तंत्रिका तंत्र और अंतःसावी तंत्र दोनों से जुड़ी संरचना कौन सी है

A) Hypothalamus

B) Spinal cord

C) Cerebellum

D) Pons

A) हाइपोथालेमस

B) मेरुरज्जु

C) अनुमस्तिष्क

D) पॉस

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822079

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation: Hypothalamus of the nervous system is integrated with endocrine system via the pituitary gland. So associated with both nervous system and endocrine system. It has autonomic nerves which have direct control over the gland

A option correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key



82) This is an autoimmune disease that occurs when the adrenal cortex is damaged and fails to produce enough of the steroid hormones cortisol and aldosterone. Identify the disease.

- A) Graves' disease
- B) Addison's disease**
- C) Cushing's syndrome
- D) AIDS

82) यह एक स्वप्रतिरक्षा रोग है जो तब होता है जब अधिवृक्क वल्कुट क्षतिग्रस्त हो जाता है और पर्याप्त स्टेरॉयड हार्मोन कोर्टिसोल और एल्डोस्टेरोन का उत्पादन करने में विफल रहता है। रोग की पहचान करें।

- A) ग्रीव्ज रोग
- B) एडिसन का रोग**
- C) कुशिंग सिंड्रोम
- D) एड्स

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822095

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation: Option B. This is called an autoimmune disorder. Addison's disease can develop if the immune system attacks the adrenal glands and severely damages the adrenal cortex

Option B, NCERT

Conclusion: The final answer is option B. There is no change in the answer key



83) Which of the following secretes Testosterone? 83) निम्नलिखित में से कौन टेस्टोस्टरोन का साव करता है?

- A) Granulosa cells
- B) Leydig cells**
- C) Gonadotropic cells
- D) Sertoli cells

- A) ग्रेनुलोसा कोशिकाएँ
- B) लीडिंग कोशिकाएँ**
- C) गोनौडोट्रोपिक कोशिकाएँ
- D) सर्टोली कोशिकाएँ

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822100

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation: Testosterone secretes Leydig cells. Testosterone is secreted by cells that lie between the seminiferous tubules, called Leydig or interstitial cells

Option B correct, NCERT

Conclusion: The final answer is option B. There is no change in the answer key



84) Why do some animals not respond to moving or approaching vehicles on the road?

- A) Reflex arcs are not evolved
- B) Poor eye sight
- C) Undeveloped autonomic nervous system
- D) Complex impulse co-ordination

84) कुछ जानवर सड़क पर चलने या आने वाले वाहनों पर प्रतिक्रिया क्यों नहीं करते हैं?

- A) प्रतिवर्ती चाप विकसित नहीं हुए हैं
- B) खराब दृष्टि
- C) अविकसित स्वायत्त तंत्रिका तंत्र
- D) जटिल आवेग समन्वय

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822096

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

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Some animals do not respond to moving or approaching vehicles on the road because their reflex arcs have not evolved and hence the thinking process of the brain is not fast enough.

https://books.google.co.in/books?id=l0JjDwAAQBAJ&pg=PA101&lpg=PA101&dq=some+animals+do+not+respond+to+moving+or+approaching+vehicles+on+the+road&source=bl&ots=ziO-F0eKRR&sig=ACfU3U0SEJDTURyDBoatn_xBddR1Yfy03A&hl=en&sa=X&ved=2ahUKEwj1xZri-e7nAhWg6XMBHXgOCPMQ6AEwCnoECAwQAAQ#v=onepage&q=some%20animals%20do%20not%20respond%20to%20moving%20or%20approaching%20vehicles%20on%20the%20road&f=falsehttps://books.google.co.in/books?id=fj0_DAAAQBAJ&pg=SL6-PA112&lpg=SL6-PA112&dq=some+animals+do+not+respond+to+moving+or+approaching+vehicles+on+the+road&source=bl&ots=CkrYjbZzhG&sig=ACfU3U304vO9KhdvH8EDdAGoLrZuKg6bSA&hl=en&sa=X&ved=2ahUKEwj1xZri-e7nAhWg6XMBHXgOCPMQ6AEwAHoECAgQAQ#v=onepage&q=some%20animals%20do%20not%20respond%20to%20moving%20or%20approaching%20vehicles%20on%20the%20road&f=false

Option A is correct

Conclusion: The final answer is option A. There is no change in the answer key

85) Why are Detritus feeders necessary for long-term survival of any ecosystem?

- A) To accumulate dead organisms and waste products
- B)** To recycle important elements such as potassium, nitrogen and phosphorus present in dead organisms
- C) To provide food and oxygen to all the organisms present in the different trophic levels of an ecosystem
- D) To stop release of more inorganic molecules and mineral salts

85) किसी भी पारिस्थितिक तंत्र के दीर्घकालिक अस्तित्व के लिए अपरद फीडर क्यों आवश्यक हैं?

- A) मृत जीवों और अपशिष्ट उत्पादों को जमा करने के लिए
- B)** मृत जीवों में मौजूद पोटैशियम, नाइट्रोजन और फास्फोरस जैसे महत्वपूर्ण तत्वों का पुनर्वर्करण करने के लिए
- C) पारिस्थितिक तंत्र के विभिन्न पोषी स्तरों में मौजूद सभी जीवों को भोजन और ऑक्सीजन प्रदान करने के लिए
- D) अधिक अकार्बनिक अणुओं और खनिज लवणों के निकास को रोकने के लिए

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822099

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: None of These

Final Answer: B

Explanation: Option B correct., Detritus feeders or detritus eaters are heterotrophs that obtain nutrients by consuming detritus (decomposing plant and animal parts including feces). By doing so, all these detritivores contribute to decomposition and the nutrient cycles like Potassium, nitrogen, carbon etc.

B correct, NCERT

Conclusion: The final answer is option B. There is no change in the answer key



86) Haemoglobin is associated with which of the following metals? 86) हीमोग्लोबिन निम्नलिखित में से किस धातु से संबंधित है?

- A) Calcium
- B) Aluminium
- C) Iron**
- D) Potassium

- A) कैल्शियम
- B) अल्युमीनियम
- C) लोहा**
- D) पोटैशियम

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822075

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: C

Final Answer: C

Explanation: Yes. Haemoglobin is associated with Iron for carrying oxygen to RBC. Iron is an essential element for blood production. Hemoglobin is essential for transferring oxygen in your blood from the lungs to the tissues.

Option C, NCERT

Conclusion: The final answer is option C. There is no change in the answer key



87) Which of the following options are the recessive traits obtained by Mendel, in F2 segregating progenies in pea?

- A) White seed coat colour and Yellow pod colour
- B) Green Pod colour and Axial flower position
- C) Inflated pod form and Dwarf stem length
- D) Round seed and Yellow cotyledon colour

87) निम्नलिखित में से कौन से विकल्प मैडल द्वारा, F2 में मटर में संततियों को अलग करने में प्राप्त किए गए अप्रभावी लक्षण हैं?

- A) सफेद बीज कोट रंग और पीला फली रंग
- B) हरा फली का रंग और अक्षीय फूल की स्थिति
- C) फूली हुई फली का रूप और तने की बौनी लंबाई
- D) गोल बीज और पीला बीजपत्र रंग

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822098

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation: Mendel exhibited this F2 generation and found that White seed coat and yellow pod colour were recessive traits in his experiment on *Pisum sativum*. Monohybrid cross between two pure breeding varieties always obtained hybrid progeny exhibiting one parental trait while the opposite trait was never expressed in the F1 generation. F2 hybrid follows law of independent assortment.

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key



88) The action of the bile can be termed as.

- A) esterification
- B) hydrogenation
- C) emulsification**
- D) oxidation

88) पित्त की क्रिया को क्या कहा जा सकता है.

- A) एस्टरीकरण
- B) हाइड्रोजनीकरण
- C) पायसीकरण**
- D) ऑक्सीकरण

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822074

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation: Yes. Bile is secreted by the liver, its salts namely sodium glycocholate and sodium taurocholate, reduces the surface tension of large fat droplets and break them into many small ones. This process is called **emulsification**, as it produces a fine emulsion of fats in the aqueous intestinal contents.

Option C , NCERT

Conclusion: The final answer is option C. There is no change in the answer key



89) Pituitary gland, pineal gland and hypothalamus 89) पीयूष ग्रंथि, पिनियल ग्रंथि और हाइपोथैलेमस मानव are located in which part of the human body? शरीर के किस भाग में स्थित होते हैं?

- A) Thoracic cavity
- B) Kidney
- C) Brain**
- D) Neck

- A) वक्ष गुहा
- B) वृक्क
- C) मस्तिष्क**
- D) गर्दन

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822081

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: C

Final Answer: C

Explanation: Yes, The hypothalamus is located on the undersurface of the brain. It lies just below the thalamus and above the pituitary gland, to which it is attached by a stalk..Pineal gland located in the midline of the brain.

Option C correct, NCERT

Conclusion: The final answer is option C. There is no change in the answer key



90) Which of the following enzymes is present in the salivary glands of human beings?

- A) Amylase
- B) Trypsin
- C) Pepsin
- D) Lipase

90) निम्नलिखित में से कौन सा एंजाइम मनुष्य की लार ग्रंथियों में मौजूद होता है?

- A) एमाइलेस
- B) ट्रिप्सिन
- C) पेप्सिन
- D) लाइपेज

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822072

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation: Yes. Saliva is produced in and secreted from salivary glands. Secretory units of salivary glands are clusters of cells called an acini. These cells secrete a fluid that contains water, electrolytes, mucus and enzymes. Which act on starch.

Option A is correct, NCERT

Conclusion: The final answer is option A. There is no change in the answer key



91) A person buys a circular plot of land for ₹ 91) एक व्यक्ति ₹ 3,200/- प्रति वर्ग मीटर की दर से ₹ 4,92,800/- at the rate of ₹ 3,200/- per square 4,92,800/- में एक वृत्ताकार भूखंड खरीदता है। भूखंड की meter. The radius of the plot is त्रिज्या है

A) 7 meters	A) 7 मीटर
B) 12 meters	B) 12 मीटर
C) 9 meters	C) 9 मीटर
D) 6 meters	D) 6 मीटर

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822417

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

area of plot = $492800/3200 = 154$. $\pi r^2 = 154$, $r = 7$

Total area of the plot = $4,92,800/3,200 = 154$ square meters.

$(22/7) \times R^2 = 154$. Thus $R = 7$ meters.

Conclusion: The final answer is option A. There is no change in the answer key

92) The slant height of a cone whose base radius is 5 cms and height is 12 cms is 92) उस शंकु की तिर्यक ऊँचाई ज्ञात कीजिए, जिसकी आधार त्रिज्या 5 सेमी और ऊँचाई 12 सेमी है।

- A) 12 cms
- B) 15 cms
- C) 11 cms
- D) 13 cms**

- A) 12 सेमी
- B) 15 सेमी
- C) 11 सेमी
- D) 13 सेमी**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822414

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation:

$$\text{slant height} = (25+144)^{(1/2)} = 13$$

$$\text{The slant height} = \sqrt{144+25} = 13$$

Conclusion: The final answer is option D. There is no change in the answer key

93) If one root of the equation $5x^2-8x+3=0$ is $3/5$, the other root is
93) यदि समीकरण $5x^2-8x+3=0$ का एक मूल $3/5$ है, तो
फिर उसका दूसरा मूल है

A) $2/5$	A) $2/5$
<u>B) 1</u>	<u>B) 1</u>
C) $1/5$	C) $1/5$
D) -1	D) -1

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822402

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation:

$$5x^2-8x+3=0, (5x-3)(x-1)=0, x=3/5, 1$$

Product of the roots $=(c/a)=3/5$. If one of the roots is $3/5$, then the other root will be 1.

Conclusion: The final answer is option B. There is no change in the answer key

94) The value of $(1/\sin^2 A) + (1/\cos^2 A)$ is

- A) $\sec A \cosec A$
- B) $\sec^2 A \cosec^2 A$**
- C) $\sin^2 A \cos^2 A$
- D) $\sin A \cos A$

94) $(1/\sin^2 A) + (1/\cos^2 A)$ का मान है

- A) $\sec A \cosec A$
- B) $\sec^2 A \cosec^2 A$**
- C) $\sin^2 A \cos^2 A$
- D) $\sin A \cos A$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822408

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation:

$(1/\sin^2 A) + (1/\cos^2 A) = 1/\sin^2 A \cos^2 A$ = required answer

After simplification, we get $(1/\sin^2 A) \times (1/\cos^2 A) = \sec^2 A \times \cosec^2 A$

Conclusion: The final answer is option B. There is no change in the answer key

95) If $3^x/27=1$ then $x=$

- A) 3
- B) -3
- C) 2
- D) -2

95) यदि $3^x/27=1$ है, तब $x=$

- A) 3
- B) -3
- C) 2
- D) -2

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822398

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

$3x=27, 3x=3^3, x=3$

: $3^x=27=3^3$

Conclusion: The final answer is option A. There is no change in the answer key

96) A rectangular field is 160 meters by 80 meters. It has a footpath 3 meters wide all round it on the inside. The area of the footpath is

96) एक आयताकार मैदान की माप 160 मीटर x 80 मीटर है। इसके अंदर से चारों ओर 3 मीटर चौड़ा एक फुटपाथ बनाया है। फुटपाथ का क्षेत्रफल होगा

- A) 1756 sq mts
- B) 1404 sq mts
- C) 1825 sq mts
- D) 1865 sq mts

- A) 1756 वर्ग मीटर
- B) 1404 वर्ग मीटर
- C) 1825 वर्ग मीटर
- D) 1865 वर्ग मीटर

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822411

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation:

The area of the footpath will be $(12800-11396)$ sq.meters.

Conclusion: The final answer is option B. There is no change in the answer key

97) If the equation $x^2+2x-3=0$ and $x^2+3x-k=0$ 97) यदि समीकरण $x^2+2x-3=0$ तथा $x^2+3x-k=0$ का have a common root, then the non zero value of एक उभयनिष्ठ मूल है, तो फिर k का शून्येतर मान है k is

A) 2
B) 1
C) 3
D) 4

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822404

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

The equation $x^2+2x-3=0$ has two roots which are -3 and 1. For 1 to be the root of 2nd equation, the value of K has to be 4.

Conclusion: The final answer is option D. There is no change in the answer key

98) If $A+B+C=\pi$ then the value of $\sin(A+B)$ 98) यदि $A+B+C=\pi$ है, तब $\sin(A+B) + \sin C$ का मान है $+\sin C$ is

- A) $\cos A$
- B) $2\cos C$
- C) $\sin 2C$
- D) $2 \sin C$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822409

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

$$\sin(\pi - C) = \sin C$$

Thus the sum is $2 \sin C$

Conclusion: The final answer is option D. There is no change in the answer key

99) The value of k for which the roots p,q of the equation $x^2 - 7x + k = 0$ satisfy the relation $5p+3q=25$ is

99) k का वह मान ज्ञात कीजिए जिसके लिए समीकरण $x^2 - 7x + k = 0$ के मूल p,q संबंध $5p+3q=25$ को संतुष्ट करते हैं।

A) -6	A) -6
B) 8	B) 8
C) 6	C) 6
D) 10	D) 10

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822403

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation:

From the equation, we can deduce that $p+q=7$ and $pq=k$

$3p+3q+2p=25$. Thus $21+2p=25$. $p=2$ and $q=5$. Thus pq will be 10.

Conclusion: The final answer is option D. There is no change in the answer key

100) If 1 cm³ of silver weights 12 grams and 6 cm³ of silver cost ₹ 40, then the cost of silver cube of edge 6cm is

100) यदि 1 cm³ चाँदी का भार 12 ग्राम और 6 ग्राम के घन की कीमत ₹ 40 है, तो फिर 6 सेमी किनारे वाली चाँदी

A) ₹ 17,280	A) ₹ 17,280
B) ₹ 17,820	B) ₹ 17,820
C) ₹ 17,028	C) ₹ 17,028
D) ₹ 17,500	D) ₹ 17,500

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822415

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation:

The total volume=216 cm³.

The price of that silver is $(216 \times 12 \times 40)/6=17,280$

Conclusion: The final answer is option A. There is no change in the answer key

101) If A and B are mutually exclusive events 101) यदि A और B परस्पर अपवर्जी घटनाएँ हैं और such that $P(A)=0.4$ and $P(B)=0.6$ then $P(A \cup B)=$ $P(A)=0.4$ तथा $P(B)=0.6$ है, तो फिर $P(A \cup B)=$

A) 1	A) 1
B) 1.2	B) 1.2
C) 0.8	C) 0.8
D) 0.6	D) 0.6

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822424

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

$$P(A \cup B)=0.4+0.6=1$$

If the events are mutually exclusive their their union is certainly 1

Conclusion: The final answer is option A. There is no change in the answer key

102) In a rhombus, whose area is 169 sq cm, 102) एक समचतुर्भुज में, जिसका क्षेत्रफल 169 वर्ग सेमी है, one of the diagonals is twice as long as the other. The length of its diagonals are एक विकर्ण की लंबाई दूसरे की दोगुनी है। इसके विकर्णों की लंबाई हैं

- A) 13 cms and 26 cms
- B) 12 cms and 24 cms
- C) 11 cms and 22 cms
- D) 15 cms and 30 cms

- A) 13 सेमी और 26 सेमी
- B) 12 सेमी और 24 सेमी
- C) 11 सेमी और 22 सेमी
- D) 15 सेमी और 30 सेमी

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822416

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

$(1/2)(x)(2x)=169$, $x=13$, thus diagonals are 13 and 26

Let the diagonals be x and $2x$

$(1/2) x X x 2X=169$. Thus $x=13$ and $2x=26$

Conclusion: The final answer is option A. There is no change in the answer key

103) The diameter of a wheel is 35 cms . The 103) किसी पहिए का व्यास 35 सेमी है। यदि वह 50 चक्र दूरी है तो फिर पहिए द्वारा तय की गई दूरी है

revolutions is

- A) 52 मीटर
- B) 55 मीटर**
- C) 58 मीटर
- D) 43 मीटर

A) 52 metres

B) 55 metres

C) 58 metres

D) 43 metres

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822413

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation:

distance covered in one revolution $=(22/7)(35)=110\text{cms}$. Distance covered in 50 revolutions is $(110\times 50)/100=55\text{ meters}$

Distance travelled by the wheel when it makes 50 revolutions is $2 \times (22/7) \times 17.5 \times 50=55\text{ metres}$.

Conclusion: The final answer is option B. There is no change in the answer key

104) In a simultaneous throw of three coins, the probability of getting at least two tails is 104) तीन सिक्कों को एक साथ उछालने पर कम-से-कम दो पट आने की प्रायिकता है

A) 2/3	A) 2/3
B) 3/4	B) 3/4
<u>C) 1/2</u>	<u>C) 1/2</u>
D) 1/3	D) 1/3

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822421

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:

$S=\{HHH, HHT, HTH, THH, TTH, THT, HTT, TTT\}$ $E=\{TTH, THT, HTT, TTT\}$ $P(E)=4/8=1/2$

There are 8 possibilities out of which 4 are favourable. Thus the probability is 1/2.

Conclusion: The final answer is option C. There is no change in the answer key

105) The equation whose roots are 8 and -5 is

- A) $x^2-3x-40=0$
- B) $x^2-3x+40=0$
- C) $x^2+3x+40=0$
- D) $x^2+3x-40=0$

105) वह समीकरण ज्ञात कीजिए, जिसके मूल 8 और -5 हैं।

- A) $x^2-3x-40=0$
- B) $x^2-3x+40=0$
- C) $x^2+3x+40=0$
- D) $x^2+3x-40=0$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822401

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

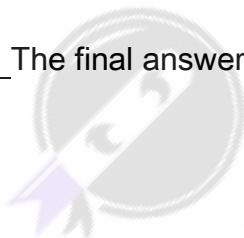
Final Answer: A

Explanation:

$$(x-8)(x+5)=0, x^2-3x-40=0$$

The equation is $(x-8)(x+5) = (x^2-3x-40)$

Conclusion: The final answer is option A. There is no change in the answer key



106) The GCD of x^2-x-2 and x^2+6x+5 is

- A) $x+5$
- B) $x-2$
- C) $x+1$
- D) $(x+1)(x-2)(x+5)$

106) x^2-x-2 और x^2+6x+5 का महत्तम समापवर्तक है

- A) $x+5$
- B) $x-2$
- C) $x+1$
- D) $(x+1)(x-2)(x+5)$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822399

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation:

$x^2-x-2=(x+1)(x-2)$, $x^2+6x+5=(x+1)(x+5)$. Thus GCD is $x+1$

The factors of x^2-x-2 are $(x+1)$ and $(x-2)$

The factors of x^2+6x+5 are $(x+1)$ and $(x+5)$

The GCD is $(x+1)$

Conclusion: The final answer is option C. There is no change in the answer key

107) If $\tan A = 3/4$, A is acute, then $\sin 2A =$

- A) $12/25$
- B) $21/25$
- C) $4/25$
- D) $24/25$

107) यदि $\tan A = 3/4$ है, और A न्यूनकोण है, तो तब $\sin 2A =$

- A) $12/25$
- B) $21/25$
- C) $4/25$
- D) $24/25$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822407

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation:

$$\sin 2A = 2 \sin A \cos A = 2(3/5)(4/5) = 24/25$$

$$\sin 2A = 2 \sin A \cos A = 2 \times (4/5) \times (3/5) = 24/25$$

Conclusion: The final answer is option D. There is no change in the answer key

108) The solution set of the equation $5^{(x+3)} + 108$ समीकरण $5^{(x+3)} + 5^{(x+2)} = 150$ का हल $5^{(x+2)} = 150$ is समुच्चय है

A) {0,1}	A) {0,1}
<u>B)</u> {0}	<u>B)</u> {0}
C) {0,-1}	C) {0,-1}
D) {0,1,2}	D) {0,1,2}

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822405

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

Final Answer: B

Explanation:

$$5^x(125+25)=150, 5^x=1, x=0$$

$$5^x[125+25]=150$$

Thus $5^x=1$. The value of $x=0$.

Conclusion: The final answer is option B. There is no change in the answer key

109) The circumference of the base of a cylindrical hollow pipe is 65 cm and length is 12 सेमी और लंबाई 12 मीटर है। पाइप का पृष्ठीय क्षेत्रफल है mts. The surface area of the pipe is

A) 7.5 वर्ग मीटर
B) 7.2 वर्ग मीटर
C) 7.8 वर्ग मीटर
D) 6.4 वर्ग मीटर

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822418

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:

$2\pi r = 65 \text{ cms}$, $h = 1200 \text{ cms}$. LSA = $65 \times 1200 = 78000 \text{ sq cms} = 7.8 \text{ mts}$

The surface area of the pipe is $0.65 \times 12 = 7.8 \text{ sq.mts}$

Conclusion: The final answer is option C. There is no change in the answer key

110) Four circular pieces, each of radius 14 cms 110) चार वृत्ताकार टुकड़े जिनमें से प्रत्येक की त्रिज्या 14 are placed in such a way that each piece cms है, को इस प्रकार रखा गया है कि जिसका प्रत्येक टुकड़ा touches two other pieces. The area of the space दो अन्य टुकड़ों को स्पर्श करता है। चारों टुकड़ों से घिरे हुए enclosed by the four pieces is स्थान का क्षेत्रफल है

A) 174 cm ²	A) 174 cm ²
<u>B)</u> 168 cm ²	<u>B)</u> 168 cm ²
C) 156 cm ²	C) 156 cm ²
D) 162 cm ²	D) 162 cm ²

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822420

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation:

$$\text{required area} = [(28 \times 28) - 4 \times ((1/4)(22/7)(14)(14))] = 168 \text{ cm}^2$$

The area enclosed by four circular pieces is $28^2 - (22/7) \times 14 \times 14 = 784 - 616 = 168 \text{ cm}^2$.

Conclusion: The final answer is option B. There is no change in the answer key

111) If $\tan A = 12/5$, A is acute, then the value of $\sin A \sec A + \cos A \cosec A$ is

- A) $165/75$
- B) $144/75$
- C) $169/60$
- D) $75/245$

111) यदि $\tan A = 12/5$ है, और A न्यूनकोण है, तो फिर $\sin A \sec A + \cos A \cosec A$ का मान है

- A) $165/75$
- B) $144/75$
- C) $169/60$
- D) $75/245$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822406

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:

$$\sin A \sec A + \cos A \cosec A = (12/13)(13/5) + (5/13)(13/12) = 169/60$$

$$\sin A \sec A + \cos A \cosec A = (12/5) + (5/12) = 169/60$$

Conclusion: The final answer is option C. There is no change in the answer key

112) The probability of a certain event is

A) 0.5

B) 1

C) 0

D) 0.3

112) किसी निश्चित घटना की प्रायिकता है

A) 0.5

B) 1

C) 0

D) 0.3

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822426

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: A

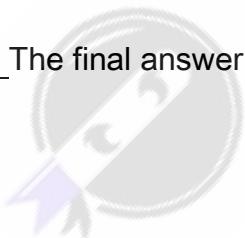
Final Answer: B

Explanation:

$P(\text{certain event})=1$

Certain event is definitely going to happen . Thus it's probability is 1.

Conclusion: The final answer is option B. There is no change in the answer key



113) The length of a rectangle is thrice its width. 113) किसी आयत की लंबाई उसकी चौड़ाई की तीन गुनी है। If the length of its diagonal is $4\sqrt{10}$ cms, the यदि इसके विकर्ण की लंबाई $4\sqrt{10}$ सेमी है, तो फिर इसके perimeter of the rectangle is आयत का परिमाप है

- A) 36 cms
- B) 42 cms
- C) 32 cms
- D) 45 cms

- A) 36 सेमी
- B) 42 सेमी
- C) 32 सेमी
- D) 45 सेमी

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822412

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation:

length=12, width =4, thus perimeter=32

let width be "x" and length be "3x".

$\text{Sqrt}(x^2+9x^2)=4\sqrt{10}$. Thus $x=4$ cms. Perimeter=8 x 4=32 cms.

Conclusion: The final answer is option C. There is no change in the answer key

114) A bag contains 5 red balls, 8 black balls and 10 white balls. One ball is drawn at random. What is the probability that the ball drawn is not white ?

114) एक थैले में 5 लाल गेंदें, 8 काली गेंदें और 10 सफेद गेंदें हैं। इसमें से एक गेंद यादृच्छिक रूप से निकाली जाती है। इस बात की क्या प्रायिकता है कि निकाली गई गेंद सफेद न हो?

A) 12/13	A) 12/13
B) 3/8	B) 3/8
<u>C) 13/23</u>	<u>C) 13/23</u>
D) 1/2	D) 1/2

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822423

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:

$$P(\text{white}) = 10/(5+8+10) = 10/23 \quad P(\text{not white}) = 1 - (10/23) = 13/23$$

There are 13 balls out of 23 balls which are not white. Thus the probability of picking a non white ball is 13/23.

Conclusion: The final answer is option C. There is no change in the answer key

115) If the lateral surface area of a cylinder is 115) यदि किसी बेलन का पार्श्व पृष्ठीय क्षेत्रफल 1232 वर्ग 1232 sq cms and radius is 14 cms, then the सेमी और त्रिज्या 14 सेमी है, तो फिर उस बेलन की ऊँचाई height of the cylinder is है

A) 13 cms	A) 13 सेमी
B) 15 cms	B) 15 सेमी
<u>C) 14 cms</u>	<u>C) 14 सेमी</u>
D) 12 cms	D) 12 सेमी

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822419

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: A

Final Answer: C

Explanation:

$$LS = 2(22/7)(14)h = 1232. h = 14$$

$$2 \times (22/7) \times R \times H = 1232$$

Here R=14 cms.

Thus H=14 cms.

Conclusion: The final answer is option C. There is no change in the answer key

116) Two dices are thrown simultaneously. The probability of getting the sum as odd number is

116) दो पासे एक साथ फेंके जाते हैं। ऐसे में आने वाली संख्याओं के योग का एक विषम संख्या होने की प्रायिकता है

A) 2/3	A) 2/3
B) 3/4	B) 3/4
C) 1/3	C) 1/3
D) 1/2	D) 1/2

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822422

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

$$n(S)=36, n(E)=18, P(E)=1/2$$

the probability of getting the sum as odd number is same as the probability of getting the sum as even=1/2

Conclusion: The final answer is option D. There is no change in the answer key

117) What must be subtracted from $4x^2-7x+9$ 117) x^2+5x-4 प्राप्त करने के लिए $4x^2-7x+9$ में से क्या घटाया जाना चाहिए?

A) $3x^2+12x +13$	A) $3x^2+12x +13$
B) $3x^2-12x-13$	B) $3x^2-12x-13$
<u>C) $3x^2- 12x +13$</u>	<u>C) $3x^2- 12x +13$</u>
D) $3x^2+12x -13$	D) $3x^2+12x -13$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822400

Number of Claims: 1

Declared Answer Key: C

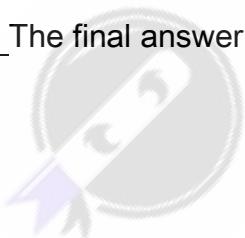
Candidate Claim: A

Final Answer: C

Explanation:

$$(4x^2-7x+9)-(x^2+5x-4)=3x^2-12x+13$$

Conclusion: The final answer is option C. There is no change in the answer key



118) A box has 3 red and 5 white balls. 2 balls are drawn one after one from the box. What is the probability that the 2 balls drawn are red if the ball drawn first is returned to the box before the second ball is drawn?

118) एक बॉक्स में 3 लाल और 5 सफेद गेंदें हैं। बॉक्स से एक के बाद एक 2 गेंदें निकाली जाती हैं। इसकी क्या प्रायिकता है कि निकाली गई 2 गेंदें लाल होंगी यदि दूसरी गेंद के निकाले जाने से पहले, पहली गेंद को बॉक्स में वापस रख दिया जाता है?

A) 3/86	A) 3/86
<u>B) 9/64</u>	<u>B) 9/64</u>
C) 6/65	C) 6/65
D) 3/8	D) 3/8

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822427

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: B

Final Answer: B

Explanation:

The probability that the two balls drawn would be red=(3/8) x (3/8)=9/64

Conclusion: The final answer is option B. There is no change in the answer key

119) A group of children has 4 boys and 2 girls, 119) बच्चों के एक समूह A में 4 लड़के और 2 लड़कियाँ हैं, group B has 5 boys and 3 girls, group C has 3 समूह B में 5 लड़के और 3 लड़कियाँ हैं, समूह C में 3 लड़के boys and 6 girls. One child is selected from each और 6 लड़कियाँ हैं। इन तीनों समूहों में से प्रत्येक से एक बच्चे of these three groups. What is the probability का चयन किया जाता है। इस बात की क्या प्रायिकता है कि that all the three selected children are girls? चुने गए सभी तीन बच्चे लड़कियाँ होंगी?

A) $1/12$	A) $1/12$
B) $1/6$	B) $1/6$
C) $1/4$	C) $1/4$
D) $5/12$	D) $5/12$

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822425

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

The probability that a girl is selected from all the three groups is $(2/6) \times (3/8) \times (6/9) = 1/12$

Conclusion: The final answer is option A. There is no change in the answer key

120) If triangle ABC is a right angled triangle, 120) यदि त्रिभुज ABC एक समकोण त्रिभुज है, जहाँ कोण where angle C =90 degrees then the value of cot C =90 डिग्री है, तो तब cot A +cot B का मान है A +cot B is

A) $(a-b)/(a+b)$
 B) a^2-b^2
 C) $(a^2+b^2)/(ab)$
 D) 1

A) $(a-b)/(a+b)$
 B) a^2-b^2
 C) $(a^2+b^2)/(ab)$
 D) 1

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2822410

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:

120) ΔABC $\angle C = 90^\circ$

$$\cot A + \cot B$$

$$\Rightarrow \frac{b}{a} + \frac{a}{b}$$

$$= \frac{b^2 + a^2}{ab} = \frac{a^2 + b^2}{ab}$$

$$= \frac{a^2 + b^2}{ab} = \frac{a^2 + b^2}{ab}$$

$$\cot B = \frac{BC}{AC}$$

$$\cot A = \frac{AC}{BC}$$

Conclusion: The final answer is option C. There is no change in the answer key

121) Choose the correct verb to fill in the blank:

By this time next year, I _____ for ten years at this company.

A) shall have been working

B) worked

C) have worked

D) will be working

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819305

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

Option B is incorrect because it is in past tense. The sentence requires to be filled with a verb in future continuous tense. Option C is incorrect because the subject 'I' does not agree with the plural verb 'have worked'. Option D is wrong because the preposition 'for' which denotes a period needs to be collocated with a verb in the perfect tense. 'Will be working' in future continuous tense is incorrect. The correct option is A

The future perfect continuous is composed of two elements

the future perfect of the verb "to be" (will have been) + the present participle of the main verb (base + ing) Like the future perfect simple, this form is used to project ourselves forward in time and to look back. It refers to events or actions that are currently unfinished but will be finished at some future time. It is most often used with a time expression.

Reference:

<https://www.ef.com/wwen/english-resources/english-test/>

Conclusion:

The final answer is option A. There is no change in the answer key.



Teachingninja.in

122) Fill in the blanks with the correct relative clause.:

The greengrocers are the shop -----
- you can buy fruits and vegetables

A) Which you can buy fruits and vegetables

B) Where you can buy fruits and vegetables

C) When you can buy fruits and vegetables

D) Why you can buy fruits and vegetables

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819325

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: None of These

Final Answer: B

Explanation:

The blank needs to be filled using an adverb clause of place. Adverbial clauses of place often provide information about where something occurs. Use this type of adverb clause when you're trying to explain the location of something so that you're being very clear on the exact place.

Therefore, option B is correct. Option A is an adjective clause. It is incorrect. The adverbial clauses answer the question where. We use this type of adverb clause when we are discussing time. Option C is incorrect. The adverb clauses that answer the question why are used when you're providing an explanation of the cause or purpose for something, both of which provide explanations or justifications for the outcome. So Option D is incorrect.

An adverb clause is a group of words that function as an adverb in a sentence. Adverb clauses can be used to add explanatory detail to your writing and explain how or why things happen. To

identify adverb clauses, you'll need to understand what an adverb does as well as how a clause is formed.

Reference: <https://grammar.yourdictionary.com/parts-of-speech/adverbs/adverb-clauses.html>

Conclusion:

The final answer is option B. There is no change in the answer key.



123) Fill in the blanks with the correct form of the verb:

The thieves ----- from the place leaving the stolen car at the mall itself.

A) Fleeing

B) Flees

C) Flee

D) Fled

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819319

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

The blank needs to be filled with a verb in the simple past tense form so as to balance the tense indicated in the sentence. Option A is a present participle. It is incorrect. Option b is incorrect because there is no subject-verb agreement between the plural noun 'thieves' and the singular verb 'flees' Option C is in correct because the verb is in the simple present tense. Option d is the correct option.

Reference: Dictionary.com

Conclusion:

The final answer is option D. There is no change in the answer key.

124) Fill in the blanks with the correct option:

She is _____ in whatever she says so, she is
----- from all of you.

A) discrete, discrete

B) discreet, discrete

C) discrete, discreet

D) discreet, discreet

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819303

Number of Claims: 2

Declared Answer Key: B

Candidate Claim: A,C

Final Answer: B

Explanation:

Discreet and discrete are **homophones**. They sound the same but they have different definitions.

Discreet means careful or intentionally unobtrusive. Discrete means distinct or unconnected.

Reference:

[When To Use Discrete vs Discreet | Merriam-Webster](https://www.merriam-webster.com/words-at-play/discrete)

<https://www.merriam-webster.com/words-at-play/discrete>

Conclusion:

The final answer is option B. There is no change in the answer key.

125) Which of the following are parts of an essay?

- A) Salutation, title, address
- B) Date, heading, subscription
- C) Paragraphs, topic sentence, complimentary close
- D) Introduction, body and conclusion**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819315

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: None of These

Final Answer: D

Explanation:

The main parts (or sections) to an essay are **the intro, body, and conclusion**. In a standard short essay, five paragraphs can provide the reader with enough information in a short amount of space.

Reference:

Components of a Good Essay

<https://www.evansville.edu › downloads › parts>

Conclusion:

The final answer is option D. There is no change in the answer key.

126) Identify the sentence that is correctly punctuated.

A) The servant said to the master, "Pardon my fault, Sir".

B) The servant said to the master pardon my fault sir.

C) The servant said to the master, Pardon my fault, sir.

D) the servant said to the master "Pardon my fault,sir".

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819309

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation:

The framing of the question and the answer options is appropriate to arrive at the correct answer. Since, there is no discrepancy found between the claimed answer option and the declared answer key, there is no change in the answer key.

Conclusion:

The final answer is option A. There is no change in the answer key.

127) Fill in the blanks with the correct form of the verb:

The dog ----- to death in the highway accident.

A) Bleeds

B) Bleed

C) Bleeding

D) Bleed

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819320

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation:

The option B in the simple past tense is the correct verb that can fill the given blank. Option A and D are the simple present tense forms so are incorrect. Option C is in the continuous form.

Conclusion:

The final answer is option B. There is no change in the answer key.

128) Identify the meaning of the underlined phrase:

Ravi's mother turns a blind eye to his habit of stealing.

- A) becomes angry
- B) secretly supports
- C) looks like a blind person
- D) pretends not to notice**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819299

Number of Claims: 2

Declared Answer Key: D

Candidate Claim: A,B

Final Answer: D

Explanation:

You use the term 'Turn a Blind Eye' to refer to the act of ignoring or failing to acknowledge something you know to be real. Example of use: "She knows he's lying to her, but she's choosing to turn a blind eye to the situation."

Reference:

Turn a Blind Eye | Phrase Definition, Origin & Examples

<https://www.gingersoftware.com/content/turn-a-blind-eye-meaning-definition-usage-examples/>

Conclusion:

The final answer is option D. There is no change in the answer key.

129) Identify the sentence that is correctly punctuated.

A) It was a Doctors conference attended by Physicians', Surgeons' who had master's degree like M.S and M.D in various fields.

B) It was a doctor's conference attended by Physicians, Surgeons who had masters degree like MS and MD in various fields.

C) It was a Doctor's conference attended by Physicians, Surgeons who had master's degree like M.S and M.D in various fields.

D) It was a Doctors conference attended by Physicians, Surgeons who had masters degree like M.S and M.D in various fields.

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819324

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:

Only option C is correctly punctuated. Option A is incorrect because of 'Physicians', wrong usage of apostrophe. Option B is incorrect because of 'doctor's' in lower case. Option D is incorrect because 'masters; without an apostrophe is incorrect.

Reference:

dictionary.com

Conclusion: The final answer is option C. There is no change in the answer key.

130) Fill in the blanks with the correct articles:

French is _____ language of _____ people of France.

A) an; the

B) a; the

C) the; the

D) the: a

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819311

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:

Both the blanks need to be filled using the definite article. The definite article is **used before singular and plural nouns when the noun is specific or particular**. This signals that the noun is definite, that it refers to a particular member of a group. For example: "The dog that bit me ran away." Here, we're talking about a specific dog, the dog that bit me.

Reference:

Purdue Online Writing Lab

https://owl.purdue.edu/owl/grammar/using_articles

Conclusion:

The final answer is option C. There is no change in the answer key.

131) Fill in the blank with the correct pronoun:

He likes you more than _____.

- A) it
- B) me**
- C) you
- D) she

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819300

Number of Claims: 4

Declared Answer Key: B

Candidate Claim: A,B

Final Answer: B

Explanation:

Use the pronoun "I" when the person speaking is doing the action, either alone or with someone else. Use the pronoun "me" when the person speaking is receiving the action of the verb in some way, either directly or indirectly.

Reference:

When should I use "me" and when should I use "I"? - Learner's ...

<https://www.learnersdictionary.com/when-to-use-me-a...>

Conclusion:

The final answer is option B. There is no change in the answer key.

132) Fill in the blanks with the correct articles:

_____ little girl was eating _____ ice-cream.

- A) A; an
- B) An;a
- C) The: the
- D) The;an**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819310

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation:

The first blank needs to be filled using 'The' a definite article. The definite article is used before singular and plural nouns when the noun is specific or particular. It signals that the noun is definite, that it refers to a particular member of a group. For example: "The dog that bit me ran away." Here, we're talking about a specific dog, the dog that bit me.

The second blank needs to be filled with an indefinite article The definite article is used before singular and plural nouns when the noun is specific or particular. It signals that the noun is definite, that it refers to a particular member of a group. For example: "The dog that bit me ran away." Here, we're talking about a specific dog, the dog that bit me.

Reference:

Indefinite article Definition & Meaning - Merriam-Webster

<https://www.merriam-webster.com/dictionary/indefinite>

Conclusion:

The final answer is option D. There is no change in the answer key.

133) Choose the correct verb to fill in the blanks:

The examination _____ at 9 a.m. tomorrow.

A) will begin

B) had begun

C) has begun

D) began

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819304

Number of Claims: 2

Declared Answer Key: A

Candidate Claim: A

Final Answer: A

Explanation:

The framing of the question and the answer options is appropriate to arrive at the correct answer. Since, there is no discrepancy found between the claimed answer option and the declared answer key, there is no change in the answer key.

Conclusion:

The final answer is option A. There is no change in the answer key.

134) Choose the correct word to complete the sentence:

Meera has a passion _____ music.

A) for

B) of

C) into

D) with

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819312

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: D

Final Answer: A

Explanation:

The noun 'Passion' collocates with the preposition 'for'.

Reference:

<https://www.freecollocation.com/search?word=passion>

Conclusion:

The final answer is option A. There is no change in the answer key.

135) Identify the sentence that is correctly punctuated.

A) One by one a flock of sheep, scrambled down into the roadway.

B) One by one, a flock of sheep, scrambled down, into the roadway.

C) one by one a flock of sheep scrambled down into the roadway.

D) One by one, a flock of sheep scrambled down into the roadway.

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819308

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: B

Final Answer: D

Explanation:

In option the comma is missing after the phrase 'one by one'. In option B a comma is include incorrectly after the adverb 'down'. Option C is incorrect because of the use of lower case with the first word of the sentence.

Conclusion:

The final answer is option D. There is no change in the answer key.

136) Choose the correct word to complete the sentence:

It is believed that the cashier _____ have stolen the money.

A) should

B) would

C) might

D) may

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819313

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: B

Final Answer: C

Explanation:

We use might when we are not sure about something **in the present** or future: I might see you tomorrow. It looks nice, but it might be very expensive. It's quite bright. It might not rain today.

Reference:

['may' and 'might' | - | LearnEnglish - British Council](#)

<https://learnenglish.britishcouncil.org/grammar/may-a...>

Conclusion:

The final answer is option C. There is no change in the answer key.

137) Fill in the blanks with the correct option:

We ----- the project by the end of this year.

- A) would finish
- B) will have been finishing
- C) have finished
- D) will finish**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819328

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: D

Final Answer: D

Explanation:

The framing of the question and the answer options is appropriate to arrive at the correct answer. Since, there is no discrepancy found between the claimed answer option and the declared answer key, there is no change in the answer key.

Conclusion:

The final answer is option D. There is no change in the answer key.

138) Who is the audience of the following prompt: You want to go on an educational trip.
Write a letter requesting for an educational trip.

A) The Chief Minister

B) Your Teacher

C) Students

D) Administrator

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819316

Number of Claims: 1

Declared Answer Key: B

Candidate Claim: C

Final Answer: B

Explanation:

Since it is an educational trip the letter has to be written to the teacher.

Conclusion:

The final answer is option B. There is no change in the answer key.

139) Identify the meaning of the underlined phrase:

She looks down upon her poor neighbours.

- A) despises
- B) shows animosity towards
- C) watches from an elevated position
- D) behaves rudely with**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819298

Number of Claims: 8

Declared Answer Key: D

Candidate Claim: A,B,C,None of These

Final Answer: D

Explanation:

(look down on someone/something) to think that you are better or more important than someone else, or to think that something is not good enough for you. She looks down on anyone who hasn't had a university education.

Reference:

[Look-down-upon Meaning - YourDictionary](#)

<https://www.yourdictionary.com/look-down-upon>

Conclusion:

The final answer is option D. There is no change in the answer key.

140) Fill in the blank with the correct pronoun:

Please listen to _____ he says.

A) what

B) which

C) that

D) them

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819301

Number of Claims: 3

Declared Answer Key: A

Candidate Claim: C,D

Final Answer: A

Explanation:

The blank needs to be filled with the relative pronoun 'what'. You use what when you are asking for information about something. You can use what as a pronoun or a determiner. When you use what as a pronoun, it can be the subject, object, or complement of a verb

Reference:

What - definition of what by The Free Dictionary

<https://www.thefreedictionary.com/what>

Conclusion:

The final answer is option A. There is no change in the answer key.

141) Fill in the blanks with the correct option:

The children ----- outside in the garden.

A) is playing

B) play

C) will play

D) are playing

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819327

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation:

The blank needs to be filled using the present continuous form of the verb Since the subject is in the plural the verb needs to be in plural form. The present continuous is made from the present tense of the verb be and the -ing form of a verb: We use the present continuous to talk about:

- activities at the moment of speaking:

I'm just leaving work. I'll be home in an hour.

Please be quiet. The children are sleeping.

Reference:

<https://learnenglish.britishcouncil.org/grammar/english-grammar-reference/present-continuous>

Conclusion: The final answer is option D. There is no change in the answer key.

142) Fill in the blanks with the correct option:

Our ----- advised us that dedication should be
the _____ on which we must work.

A) principle,principal

B) principal,principle

C) principal,principal

D) principle,principle

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819302

Number of Claims: 2

Declared Answer Key: B

Candidate Claim: B,C

Final Answer: B

Explanation:

Principle vs. ... A principle is a rule, a law, a guideline, or a fact. A principal is the headmaster of a school or a person who's in charge of certain things in a company. Principal is also an adjective that means original, first, or most important.

Reference

[Principle vs Principle - Learn The Difference | IELTS Australia](https://ielts.com.au/learn-the-difference-principle-vs-principal/)

[https://ielts.com.au › Articles › Preparation](https://ielts.com.au/articles/preparation/)

Conclusion:

The final answer is option B. There is no change in the answer key.

143) Identify the kind of clause underlined in the sentence:

I am very disappointed that you could not come to the wedding.

- A) Noun clause
- B) Adverb clause of manner
- C) Adjective clause
- D) Adverb clause of reason

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819307

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: B

Final Answer: A

Explanation:

A noun clause is a **dependent clause** that takes the place of any noun in the sentence, whether they are subjects, objects, or subject complements. For example: She was saddened by what she had read. Simply put, a noun clause is a **dependent clause** that takes the place of a noun in the sentence. A dependent clause is a phrase that can't stand on its own as a complete sentence. If a dependent clause can stand in for a person, place, or thing, then it's a noun clause.

Conclusion:

The final answer is option A. There is no change in the answer key.

144) Identify the kind of clause underlined in the sentence:

He could not come to school because he was ill.

A) Adverb clause of reason

B) Noun Clause

C) Adverb clause of manner

D) Adjective clause

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819306

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: C

Final Answer: A

Explanation:

An adverbial clause of reason is directly connected to the main clause of the sentence. It explains and gives reason for the main idea. ... An adverbial clause of reason usually starts with the following subordinators: because, since, as, in case, for, seeing (that), as long as, with, what with, in that and while

Reference:

Adverb clauses of cause or reason - English Grammar

<https://www.englishgrammar.org/Adverbs>

Conclusion: The final answer is option A. There is no change in the answer key.

145) Identify the Independent clause in the sentence:

Ann ate a bucket of ice cream, after she finished her exam

- A) Icecream after she finished her exam
- B) Bucket ice cream after she finished her exam
- C) After she finished her exam
- D) Ann ate a bucket ice cream**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819326

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: A

Final Answer: D

Explanation:

A clause that can form a complete sentence standing alone, having a subject and a predicate.
"the more important of the two ideas is placed in the independent clause"

In this context in the given sentence the independent clause is "Ann ate a bucket of ice cream"

Reference: Dictionary.com

Conclusion:

The final answer is option D. There is no change in the answer key.

146) Identify the sentence that is correctly punctuated.

A) Anna is everyone's favourite though she is quiet and shy natured.

B) Anna is everyones favourite though she quiet and shy natured.

C) Anna is everyone's favourite, though she is quiet and shy natured.

D) Anna is everyones favourite, though she is quiet and shy natured.

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819323

Number of Claims: 1

Declared Answer Key: C

Candidate Claim: C

Final Answer: C

Explanation:

The framing of the question and the answer options is appropriate to arrive at the correct answer. Since, there is no discrepancy found between the claimed answer option and the declared answer key, there is no change in the answer key.

Conclusion:

The final answer is option C. There is no change in the answer key.

147) Fill in the blanks with the correct form of the verb:

It ----- since last night.

A) Has been raining

B) Is Raining

C) Rain

D) Rains

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819318

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: C

Final Answer: A

Explanation:

We use *for* with a period of time in the past, present or future.

We use *since* with a point in time in the past.

When since is used for talking about time, the verb in the main clause of the sentence is usually in **the present perfect or past perfect tense**: It hasn't rained since the end of July. He had been composing music since he was ten years old.

Reference:

For or since ? - English Grammar Today - Cambridge Dictionary

<https://dictionary.cambridge.org › british-grammar › for-...>

Conclusion: The final answer is option A. There is no change in the answer key.

148) Fill in the blanks with the appropriate option:

I got ----- umbrella to take if it rains, but forgot to take ----- same, when it actually rained.

- A) The, A
- B) A, An
- C) The, The
- D) An, The**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819322

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: None of These

Final Answer: D

Explanation:

In English there are three articles: *a*, *an*, and *the*. Articles are used before nouns or noun equivalents and are a type of adjective. The definite article (*the*) is used before a noun to indicate that the identity of the noun is known to the reader. The indefinite article (*a*, *an*) is used before a noun that is general or when its identity is not known. There are certain situations in which a noun takes no article.

Reference:

<http://www.butte.edu/departments/cas/tipsheets/grammar/articles.html>

Conclusion: The final answer is option D. There is no change in the answer key.

149) Fill in the blanks with the appropriate options:

----- University of Delhi released a controversial statement against students' rights.

- A) an
- B) a
- C) No article required
- D) The,**

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819321

Number of Claims: 1

Declared Answer Key: D

Candidate Claim: C

Final Answer: D

Explanation:

In English there are three articles: *a*, *an*, and *the*. Articles are used before nouns or noun equivalents and are a type of adjective. The definite article (*the*) is used before a noun to indicate that the identity of the noun is known to the reader. The indefinite article (*a*, *an*) is used before a noun that is general or when its identity is not known. There are certain situations in which a noun takes no article.

Reference:

<http://www.butte.edu/departments/cas/tipsheets/grammar/articles.html>

Conclusion:

The final answer is option D. There is no change in the answer key.

150) Identify the sentence which is correct.

- A) The poor flower-seller entreated us to buy some flowers.
- B) The poor flower-seller said to us to buy some flowers.
- C) The poor flower-seller told buy some flowers to us.
- D) The poor flower-seller said buy some flowers to us.

Domain Name	Batch	Question No
JCECEB_ANM or GNM	Batch 2	Q2819314

Number of Claims: 1

Declared Answer Key: A

Candidate Claim: C

Final Answer: A

Explanation:

Only Option A maintains the subject+ Verb+ object structure correctly. All the other sentences are incorrectly structure.

Conclusion:

The final answer is option A. There is no change in the answer key.