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Answer key of Town Planning Multipost Recruitment Exam 31st Dec 2024 to 2nd Jan 2025 for Objection Handling Purpose Only

Test Date	02/01/2025
Test Time	9:00 AM - 11:00 AM
Subject	Planning Assistant

Section : Marathi

Q.1 'द्वयी' या शब्दाचा समानार्थी शब्द सांगा.

Ans 1. युगुल
 2. उपनयन
 3. आभरण
 4. प्रचुर

Q.2 खालील वाक्यातील उद्देश्य विस्तार सांगा.

नियमित वाचन करणारे विद्यार्थी अस्खलित वाचतात.

Ans 1. विद्यार्थी अस्खलित
 2. करणारे विद्यार्थी
 3. विद्यार्थी वाचतात.
 4. नियमित वाचन करणारे

Q.3 खालील वाक्यातील म्हणीचा योग्य अर्थ असलेला पर्याय निवडा.

अमेरिकेतील नोकरीची संधी थोडक्यात हुकल्यामुळे अजयची अवस्था दैव नाही लल्लाटी पाऊस पडतो शेताच्या काठी अशी झाली.

Ans 1. दोन गोष्टीवर अवलंबून असणाऱ्या चे काम होत नाही.
 2. नशिबामुळे उकर्ष होतो; पण स्वतःच्या कृत्यामुळे नुकसान होते.
 3. नशिबात नसल्यास जवळ आलेली संधी सुद्धा दूर जाते.
 4. नशिबावर अवलंबून असणारे उपाशी राहतात तर उद्योगी पोटभर खातात.

Q.4 तुम्ही भाषण केले असते तरी चालले असते. (वाक्याचा प्रकार ओळखा.)

Ans 1. विधानार्थी वाक्य
 2. केवल वाक्य
 3. अकरणरूपी वाक्य
 4. संकेतार्थी वाक्य

Q.5 खालीलपैकी स्थलवाचक क्रियाविशेषण असलेला पर्याय ओळखा.

Ans 1. आजकाल
 2. अतिशय
 3. पूर्वी
 4. पलीकडे

Q.6 खालीलपैकी कोणता शब्द स्त्रीलिंगी आहे ?

Ans 1. गुराखी
 2. आरसा
 3. चूल
 4. चित्र

Q.7 'सर्व माकडांनी टोप्या पळवल्या.' या वाक्यातील उद्देश्य ओळखा.

Ans ✗ 1. टोप्या

✗ 2. सर्व टोप्या

✗ 3. पळवल्या

✓ 4. माकडांनी

Q.8 'घरात नाही तीळ पण मिशांना देतो पीळ' या म्हणीचा अर्थ सांगा.

Ans ✗ 1. दिसण्यात सुंदर पण नशिबाने दुर्दैवी

✗ 2. फक्त कामापुरता संबंध

✗ 3. स्वतःच खर्च करून इतरांची कामे करणे.

✓ 4. ऐपत नसताना ऐट मारणे

Q.9 टेबलाखाली वही पडली. या वाक्यातील शब्दयोगी अव्यय ओळखा.

Ans ✗ 1. वही

✓ 2. खाली

✗ 3. टेबल

✗ 4. पडली

Q.10 खालील शब्दसमूह अचूक शब्दाने पूर्ण करा.

तारकांचा पुंज तसा वाद्यांचा.....

Ans ✗ 1. संच

✗ 2. पुंजका

✓ 3. वृंद

✗ 4. कुंज

Q.11 खालीलपैकी 'कंठौष्ठ्य' वर्ण कोणता?

Ans ✗ 1. द

✗ 2. ब

✓ 3. ओ

✗ 4. ऐ

Q.12 गरजेपुरते जवळ असले, की लोक काम करत नाहीत किंवा कोणाची पर्वा करत नाहीत.

या अर्थाची योग्य म्हण असलेला पर्याय शोधा.

Ans ✓ 1. कणगीत दाणा तर भील उताणा

✗ 2. गरजवंताला अक्कल नसते

✗ 3. कधी तुपाशी तर कधी उपाशी

✗ 4. कामापुरता मामा

Section : Marathi

Comprehension:

उतारा वाचून उतान्यावरील प्रश्नांची उत्तरे लिहा.

मित्रांनो, मराठी भाषेवर माझे अपार प्रेम आहे. बालपणापासून मी तिचा भक्त आहे. मराठी वाड्मयावर मी पोसलेला आहे. मराठीवर प्रेम करण्यात मी कोणाला हार जाणार नाही. ज्याप्रमाणे मराठी भाषेवर माझे प्रेम आहे, त्याप्रमाणे मुलांवर, तरुणांवर, विद्यार्थ्यावर माझा जीव आहे. बंकिम हे साहित्यसम्मान आहेत, मी सामान्य आहे. परंतु मलाही अनेक वेळा असा अनुभव आला आहे की, लिहून झाल्यावर गळून गेल्याप्रमाणे होई. अपार भूक लागे. जणू काही मी माझ्या लिहिण्यात रक्त ओतत होतो. सारे प्राण ओतत होतो. मिल्टनने म्हटले आहे की, थोर वाड्मय रक्ताने लिहिलेले असते! माझे वाड्मय कसेही असो मी त्यात रक्त ओतले आहे. माझ्या वाड्मयाला हात लावाल तर माझ्या हृदयाला हात लावाल. माझे वाड्मय माझी वाड्मयीन मूर्ती आहे. देशबंधू दासांनी 'सागर-संगीत' नावाचे काव्य लिहिले. लांची आई आजारी होती. देशबंधू घरी नक्हते. ती माता म्हणाली, "त्याचे सागर-संगीत आणून दया. ते मी जवळ घेईन. मराठी सारस्वत थोर आहे. त्याचा पायाच मुळी एका ज्ञानवैराग्यसंपन्न युवकाने घातला. ज्ञानेश्वरांनी भावार्थदीपिका लिहिली. एकदा पूज्य विनोबाजी म्हणाले, 'ज्या भाषेत ज्ञानेश्वरी आहे ती माझी मातृभाषा आहे हे माझे परमभाग्य होय.

SubQuestion No : 1

Q.1 उतान्यात साहित्यसम्मान कोणास म्हटले आहे?

Ans

- 1. ज्ञानेश्वर
- 2. मिल्टन
- 3. चित्ररंजन दास
- 4. बंकिमचंद्र

Comprehension:

उतारा वाचून उतान्यावरील प्रश्नांची उत्तरे लिहा.

मित्रांनो, मराठी भाषेवर माझे अपार प्रेम आहे. बालपणापासून मी तिचा भक्त आहे. मराठी वाड्मयावर मी पोसलेला आहे. मराठीवर प्रेम करण्यात मी कोणाला हार जाणार नाही. ज्याप्रमाणे मराठी भाषेवर माझे प्रेम आहे, त्याप्रमाणे मुलांवर, तरुणांवर, विद्यार्थ्यावर माझा जीव आहे. बंकिमचंद्रांविषयी असे सांगतात की ज्या दिवशी ते अत्यंत सुंदर लिहीत, त्या दिवशी ते दुप्पटतिप्पट मागून जेवत! बंकिम हे साहित्यसम्मान आहेत, मी सामान्य आहे. परंतु मलाही अनेक वेळा असा अनुभव आला आहे की, लिहून झाल्यावर गळून गेल्याप्रमाणे होई. अपार भूक लागे. जणू काही मी माझ्या लिहिण्यात रक्त ओतत होतो. सारे प्राण ओतत होतो. मिल्टनने म्हटले आहे की, थोर वाड्मय रक्ताने लिहिलेले असते! माझे वाड्मय कसेही असो मी त्यात रक्त ओतले आहे. माझ्या वाड्मयाला हात लावाल तर माझ्या हृदयाला हात लावाल. माझे वाड्मय माझी वाड्मयीन मूर्ती आहे. देशबंधू दासांनी 'सागर-संगीत' नावाचे काव्य लिहिले. लांची आई आजारी होती. देशबंधू घरी नक्हते. ती माता म्हणाली, "त्याचे सागर-संगीत आणून दया. ते मी जवळ घेईन. मराठी सारस्वत थोर आहे. त्याचा पायाच मुळी एका ज्ञानवैराग्यसंपन्न युवकाने घातला. ज्ञानेश्वरांनी भावार्थदीपिका लिहिली. एकदा पूज्य विनोबाजी म्हणाले, 'ज्या भाषेत ज्ञानेश्वरी आहे ती माझी मातृभाषा आहे हे माझे परमभाग्य होय.

SubQuestion No : 2

Q.2 भावार्थदीपिका कोणी लिहिली?

Ans

- 1. ज्ञानेश्वर
- 2. विनोबा भावे
- 3. तुकाराम
- 4. रामदास खासी

Comprehension:

उतारा वाचून उतान्यावरील प्रश्नांची उत्तरे लिहा.

मित्रांनो, मराठी भाषेवर माझे अपार प्रेम आहे. बालपणापासून मी तिचा भक्त आहे. मराठी वाड्मयावर मी पोसलेला आहे. मराठीवर प्रेम करण्यात मी कोणाला हार जाणार नाही. ज्याप्रमाणे मराठी भाषेवर माझे प्रेम आहे, त्याप्रमाणे मुलांवर, तरुणांवर, विद्यार्थ्यावर माझा जीव आहे. बंकिमचंद्रांविषयी असे सांगतात की ज्या दिवशी ते अत्यंत सुंदर लिहीत, त्या दिवशी ते दुप्पटतिप्पट मागून जेवत! बंकिम हे साहित्यसम्मान आहेत, मी सामान्य आहे. परंतु मलाही अनेक वेळा असा अनुभव आला आहे की, लिहून झाल्यावर गळून गेल्याप्रमाणे होई. अपार भूक लागे. जणू काही मी माझ्या लिहिण्यात रक्त ओतत होतो. सारे प्राण ओतत होतो. मिल्टनने म्हटले आहे की, थोर वाड्मय रक्ताने लिहिलेले असते! माझे वाड्मय कसेही असो मी त्यात रक्त ओतले आहे. माझ्या वाड्मयाला हात लावाल तर माझ्या हृदयाला हात लावाल. माझे वाड्मय माझी वाड्मयीन मूर्ती आहे. देशबंधू दासांनी 'सागर-संगीत' नावाचे काव्य लिहिले. लांची आई आजारी होती. देशबंधू घरी नक्हते. ती माता म्हणाली, "त्याचे सागर-संगीत आणून दया. ते मी जवळ घेईन. मराठी सारस्वत थोर आहे. त्याचा पायाच मुळी एका ज्ञानवैराग्यसंपन्न युवकाने घातला. ज्ञानेश्वरांनी भावार्थदीपिका लिहिली. एकदा पूज्य विनोबाजी म्हणाले, 'ज्या भाषेत ज्ञानेश्वरी आहे ती माझी मातृभाषा आहे हे माझे परमभाग्य होय.

SubQuestion No : 3

Q.3 देशबंधू दासांनी लिहिलेले काव्य कोणते?

Ans

- 1. शुभसंगीत
- 2. सुगमसंगीत
- 3. सागरसंगीत
- 4. साग्रसंगीत

Section : English

Q.1 Select the most appropriate option to fill in the blanks.

He wanted _____ adventure, so he decided to take _____ spontaneous trip.

Ans 1. an; a
 2. an; the
 3. a; a
 4. a; an

Q.2 Select the most appropriate synonym of the given word.

Approbation

Ans 1. Repudiation
 2. Disobligation
 3. Approval
 4. Abhorrence

Q.3 Select the most appropriate synonym of the given word.

Arduous

Ans 1. Simple
 2. Effortless
 3. Taxing
 4. Easy

Q.4 Select the most appropriate proverb that can substitute the underlined word segment in the given sentence.

Every successful enterprise in this world trusts the truth that great things may come from small beginnings.

Ans 1. a closed mouth catches no flies
 2. punctuality is the politeness of kings
 3. mighty oaks from little acorns grow
 4. you can't unscramble eggs

Q.5 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. They had gone fishing in a creek deep inside the forest.
B. A tiger killed two fishermen in the Sunderbans last Monday.
C. But there was no trace of the missing fishermen.
D. At last, the party decided to search the creeks, where they discovered their mauled half-eaten bodies.
E. The search party combed the regular fishing areas for two days.
F. When they didn't return home in the evening, a search party was formed by the villagers.

Ans 1. ABFEC
 2. BAEFCD
 3. BAFEC
 4. ABCDEF

Q.6 Select the most appropriate article to fill in the blank. If no article is required, select 'No article required'.

Mayank is _____ university student pursuing his Master's Degree in Economics.

Ans 1. the
 2. a
 3. an
 4. No article required

Q.7 The following sentence contains three highlighted words that are misspelt. Rectify the sentence by choosing the correct spellings of these words from the options.

The subserviant employee's salubrious work environment was shattered by the invenctive and insulting tone of the new manager.

Ans

- 1. subserveint, salebrous, invactive
- 2. subservient, salubrious, invective
- 3. subsevient, saloubrous, innvenctive
- 4. subserviant, sallubrious, invectice

Q.8 Select the most appropriate option to fill in the blank.

Sheetal's _____ smile illuminated the room, bringing a sense of peace and joy to everyone present.

Ans

- 1. seraphic
- 2. repugnant
- 3. grotesque
- 4. macabre

Q.9 Select the correct option that can substitute the underlined group of words in the given sentence.

The state of poverty in our country makes me feel deep sadness or pity.

Ans

- 1. lymphatic
- 2. sympathetic
- 3. antipathic
- 4. pathetic

Q.10 Select the most appropriate option to fill in the blank.

While Radha _____ dinner, the phone rang three times.

Ans

- 1. was cooked
- 2. had cooking
- 3. was cooking
- 4. cooking

Section : English

Comprehension:

Read the given passage and answer the questions that follow.

Young children are often overwhelmed by the intensity of their physiological reaction to the moment and do not have the ability to control what they feel. They need us for that. They need us to respond with warmth and love and to provide the support they need to help settle their high level of arousal. We can do this by coming close, using a soft and loving voice, commenting on their feeling ('Oh goodness, you are so angry right now.') and offering some support ('Would you like a hug right now?' or 'Can I sit beside you while you work on this frustrating puzzle?'). When we help soothe their emotional arousal and help them use words to express their emotions, we are also helping to build the 'thinking part' of their brains. Once calmed, solutions to the problem are possible.

Connection is the key to so many things in our parenting, and it is very true when it comes to helping our little ones manage their big emotions — they need us to be available to them, to be calm and loving, and to help them regain control.

SubQuestion No : 1

Q.1 What is the central theme of the passage?

Ans

- 1. The challenges of parenting young children
- 2. The significance of teaching children problem-solving skills
- 3. The necessity of parental involvement in children's emotional development
- 4. The impact of physiological responses on children's behaviour

Comprehension:

Read the given passage and answer the questions that follow.

Young children are often overwhelmed by the intensity of their physiological reaction to the moment and do not have the ability to control what they feel. They need us for that. They need us to respond with warmth and love and to provide the support they need to help settle their high level of arousal. We can do this by coming close, using a soft and loving voice, commenting on their feeling ('Oh goodness, you are so angry right now.') and offering some support ('Would you like a hug right now?' or 'Can I sit beside you while you work on this frustrating puzzle?'). When we help soothe their emotional arousal and help them use words to express their emotions, we are also helping to build the 'thinking part' of their brains. Once calmed, solutions to the problem are possible.

Connection is the key to so many things in our parenting, and it is very true when it comes to helping our little ones manage their big emotions — they need us to be available to them, to be calm and loving, and to help them regain control.

SubQuestion No : 2

Q.2 Which of the following can be inferred from the passage?

Ans

- 1. The significance of academic achievement for young children
- 2. The role of parental support in helping children manage their emotions
- 3. The importance of discipline in parenting
- 4. The effects of physiological reactions on children's behaviour

Comprehension:

Read the given passage and answer the questions that follow.

Young children are often overwhelmed by the intensity of their physiological reaction to the moment and do not have the ability to control what they feel. They need us for that. They need us to respond with warmth and love and to provide the support they need to help settle their high level of arousal. We can do this by coming close, using a soft and loving voice, commenting on their feeling ('Oh goodness, you are so angry right now.') and offering some support ('Would you like a hug right now?' or 'Can I sit beside you while you work on this frustrating puzzle?'). When we help soothe their emotional arousal and help them use words to express their emotions, we are also helping to build the 'thinking part' of their brains. Once calmed, solutions to the problem are possible.

Connection is the key to so many things in our parenting, and it is very true when it comes to helping our little ones manage their big emotions — they need us to be available to them, to be calm and loving, and to help them regain control.

SubQuestion No : 3

Q.3 Select the most appropriate one-word summary of the passage.

Ans

- 1. Connection
- 2. Regulation
- 3. Sentiment
- 4. Discipline

Comprehension:

Read the given passage and answer the questions that follow.

Young children are often overwhelmed by the intensity of their physiological reaction to the moment and do not have the ability to control what they feel. They need us for that. They need us to respond with warmth and love and to provide the support they need to help settle their high level of arousal. We can do this by coming close, using a soft and loving voice, commenting on their feeling ('Oh goodness, you are so angry right now.') and offering some support ('Would you like a hug right now?' or 'Can I sit beside you while you work on this frustrating puzzle?'). When we help soothe their emotional arousal and help them use words to express their emotions, we are also helping to build the 'thinking part' of their brains. Once calmed, solutions to the problem are possible.

Connection is the key to so many things in our parenting, and it is very true when it comes to helping our little ones manage their big emotions — they need us to be available to them, to be calm and loving, and to help them regain control.

SubQuestion No : 4

Q.4 Select the most appropriate ANTONYM of the word 'frustrating' as used in the given passage.

Ans

- 1. Confusing
- 2. Captivating
- 3. Satisfying
- 4. Prickly

Comprehension:

Read the given passage and answer the questions that follow.

Young children are often overwhelmed by the intensity of their physiological reaction to the moment and do not have the ability to control what they feel. They need us for that. They need us to respond with warmth and love and to provide the support they need to help settle their high level of arousal. We can do this by coming close, using a soft and loving voice, commenting on their feeling ('Oh goodness, you are so angry right now.') and offering some support ('Would you like a hug right now?' or 'Can I sit beside you while you work on this frustrating puzzle?'). When we help soothe their emotional arousal and help them use words to express their emotions, we are also helping to build the 'thinking part' of their brains. Once calmed, solutions to the problem are possible.

Connection is the key to so many things in our parenting, and it is very true when it comes to helping our little ones manage their big emotions — they need us to be available to them, to be calm and loving, and to help them regain control.

SubQuestion No : 5**Q.5 What is the tone of the passage?**

Ans 1. Empathetic
 2. Critical
 3. Indifferent
 4. Authoritative

Section : General Knowledge**Q.1 In December 2023, Professor Savita Ladage received a notable award for her work in chemistry education. What is the name of the prize she won?**

Ans 1. Perkin Medal for outstanding work in applied chemistry
 2. Royal Society of Chemistry's Nyholm Prize for education
 3. Lavoisier Medal for significant contributions to the field of chemistry
 4. Copley Medal for exceptional contributions to science

Q.2 What were the dates for India's largest tribal festival, Sammakka-Saralamma Jatara, in 2024, which was held in Medaram, Mulugu district, Telangana?

Ans 1. 10-13 March
 2. 21-24 January
 3. 21-24 February
 4. 1-4 February

Q.3 Who among the following started the Vidhava Vivaha Uttejaka Mandal (Society for Encouragement of Widow Marriage) in 1865?

Ans 1. Vishnu Parashram Shastri Pandit
 2. Vishnushastri Chiplunkar
 3. Narayan Mahadev Permanand
 4. Ramkrishna Gopal Bhandarkar

Q.4 Which of the following Amendments of the Constitution of India added fundamental duties to the Indian constitution to remind Indians that while enjoying their rights as citizens, they should also perform their duties, as rights and duties are correlative?

Ans 1. 24th Amendment
 2. 35th Amendment
 3. 42nd Amendment
 4. 48th Amendment

Q.5 Who received the prestigious Aryabhatta Award from the Astronautical Society of India (ASI) in April 2024?

Ans 1. K Sivan
 2. Sunil Bharti Mittal
 3. S Somanath
 4. Subba Rao Pavuluri

Q.6 Which district of Maharashtra experienced the maximum deficiency of rain from January to December 2023?

Ans 1. Sangli
 2. Akola
 3. Pune
 4. Jalna

Q.7 What is the texture of coastal alluvium soils, found all along the coastal area of Maharashtra?

Ans 1. Sandy
 2. Silt
 3. Coarse
 4. Loamy

Q.8 Which of the following is correct about the distribution of legislative powers, as per the Indian Constitution?

Ans 1. It divides legislative powers between the central and state governments.
 2. It grants all legislative powers to the central government.
 3. It allows states to override central laws.
 4. It centralises legislative powers in the judiciary.

Q.9 Which city hosted the Krishnaveni Sangeetha Neerajanam festival in December 2023 organised by the Ministry of Tourism?

Ans 1. Chennai
 2. Hyderabad
 3. Vijayawada
 4. Bengaluru

Q.10 During which season does Maharashtra witness the withdrawal of the monsoon?

Ans 1. Summer
 2. Winter
 3. Spring
 4. Autumn

Q.11 What was the name of the Commissioner who ordered the company of the Regiment at Sitabuldi fort to take charge of the situation of the Nagpur Revolt of 1857?

Ans 1. Henry Evan Murchison James
 2. Henry Lawrence
 3. William Tayler
 4. Mr. Plowden

Q.12 Fundamental Duties were included in the Indian Constitution by which of the following Amendments?

Ans 1. 44th Amendment, 1976
 2. 42nd Amendment, 1976
 3. 41st Amendment, 1976
 4. 43rd Amendment, 1976

Q.13 Which of the following is defined as a controlled process involving microbial decomposition of organic matter?

Ans 1. Bio-methanation
 2. Aerobic digestion
 3. Composting
 4. Sanitary land filling

Q.14 In which of the following years were the Solid Waste Management Rules notified by the Ministry of Environment, Forest and Climate Change?

Ans 1. 2014
 2. 2010
 3. 2016
 4. 2012

Q.15 Who has been appointed as the Assistant Secretary-General and Special Representative of the Secretary-General for Disaster Risk Reduction, United Nations Office for Disaster Risk Reduction (UNDRR) by Antonio Guterres in 2024?

Ans 1. Rohan Sharma
 2. Priya Desai
 3. Kamal Kishore
 4. Arjun Mehta

Section : Intelligence Test

Q.1 If '+' means 'subtraction', '-' means 'multiplication', 'x' means 'division' and '÷' means 'addition', then what will come in place of the question mark (?) in the following equation?

$$36 \times 6 - 25 + 3 - 12 \div 42 \times 7 + 5 = ?$$

Ans 1. 15
 2. 7
 3. 115
 4. 123

Q.2 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

Statements:

All mouse are pointer. All stick are pointer.

Conclusions (I): Some mouse are stick.

Conclusions (II): Some pointer are stick.

Ans 1. Neither conclusion (I) nor (II) follows.
 2. Both conclusions (I) and (II) follow.
 3. Only conclusion (I) follows.
 4. Only conclusion (II) follows.

Q.3 Rekha, Sanjay, and Poonam invested in a business in the ratio 20:8:14. They invested their capitals for 9 months, 1 months and 10 months, respectively. What was the ratio of their profits?

Ans 1. 45:2:35
 2. 48:2:35
 3. 47:2:35
 4. 43:2:35

Q.4 Find the simple interest (in ₹) on ₹2000 at 5.5% per annum rate of interest for the period from 6 February 2023 to 20 April 2023

Ans 1. 20

2. 21

3. 23

4. 22

Q.5 What should come in place of the question mark ‘?’ in the given series?
231 232 229 234 227 236 225 ?

Ans 1. 227

2. 223

3. 230

4. 238

Q.6 The list price of a home theatre is ₹64000. It is sold to a retailer after two successive discounts of 5% and 42%. The retailer wants to earn a profit of 50% on his cost after allowing a 36% discount (on its new list price) to the customer. At what price should he list the home theatre?

Ans 1. ₹82781

2. ₹82660

3. ₹82650

4. ₹82747

Q.7 There are two sections A and B of a group, consisting of 22 and 44 students, respectively. If the average weight of students in section A is 46 kg and that of section B is 36 kg, find the average weight of the whole group (in kg). (correct to two decimal places)

Ans 1. 39.33

2. 38.83

3. 40.33

4. 39.83

Q.8 A can complete a piece of work in 25 days and B can complete it in 29 days. If they work on alternate days, starting with B on first day, then in how many days will the work be finished?

Ans 1. $26\frac{23}{25}$

2. $27\frac{23}{25}$

3. 26

4. 27

Q.9 What will be difference in population 3 years ago and 2 years ago of a town, whose current population is 120000 and which is increasing at a rate of 25% every year?

Ans 1. 14610

2. 15360

3. 14810

4. 15710

Q.10 Simplify the given expression.

$$(15^2 - 9^2)^{\frac{3}{2}} \times 64^{\frac{2}{3}} \div \left(\frac{1}{8}\right)^{-3}$$

Ans 1. 51

2. 54

3. 62

4. 53

Q.11 Refer to the following letter-symbol series and answer the given question.

(Left) B Ω G O H K F P # % G ψ Z \$ π λ T R A μ δ D L Y σ η (Right)

How many letters are there that are immediately preceded by a symbol and immediately followed by a vowel?

Ans 1. Four

2. None

3. Three

4. One

Q.12 EF starts from Point A and drives 15 km towards the east. He then takes a right turn, drives 17 km, turns right and drives 27 km. He then takes a right turn and drives 29 km. He takes a final right turn, drives 12 km and stops at Point P.

How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90° turns only, unless specified)

Ans 1. 12 km, to the south

2. 12 km, to the east

3. 12 km, to the north

4. 12 km, to the west

Q.13 In this question, a statement given is followed by two assumptions numbered I and II. You have to assume everything in the statement to be true and decide which of the assumptions is/are implicit in the statement.

Statement:

The government has mandated that all new vehicles must meet the stringent emission standards by 2025.

Assumptions:

I. Older vehicles may not meet the new emission standards.

II. The government is concerned about environmental pollution caused by vehicles.

Ans 1. Only assumption I is implicit.

2. Only assumption II is implicit.

3. Both assumptions I and II are implicit.

4. Neither assumption I nor II is implicit.

Q.14 In the following triad, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one which follows the same logic.

FACT – AFTC – CAFT

GAME – AGEM – MAGE

Ans 1. EXAM – EAXM – MEAX

2. HERB – EHBR – REHB

3. ITEM – TIME – IMET

4. GOAT – OGTA – AOTG

Q.15 What time (in seconds) is required for a 779 m long train to cross a 766 m long tunnel, if the train travels at a speed of 54 km/h?

Ans 1. 100
 2. 103
 3. 99
 4. 93

Section : Technical

Q.1 Consider the following activity predecessor relationship.

ACTIVITY	PREDECESSOR
M	-
N	M
O	M, N
P	O, Q
Q	N
R	M, N, P

The minimum number of dummy activities required to draw an AON network diagram is _____.

Ans 1. 2
 2. 3
 3. 0
 4. 1

Q.2 Salvage value is most closely associated with which stage in the life cycle of an asset?

Ans 1. Acquisition stage
 2. Middle of the asset's productive life
 3. Initial valuation stage
 4. End of the asset's useful life

Q.3 Which of the following materials, when transported in bulk quantities (e.g., 100 cubic metres), typically incurs higher transportation charges due to its bulkiness?

Ans 1. Sand
 2. Cement
 3. Steel rod
 4. Paint

Q.4 In the gravity dam, for the full reservoir condition, the normal stress _____.

where w = weight of the dam

U = Uplift pressure

b = base width of elementary profile of gravity dam

Ans

✓ 1. $P_n = \frac{2(w - U)}{b}$

✗ 2. $P_n = \frac{2(w)}{b}$

✗ 3. $P_n = \frac{2(U)}{b}$

✗ 4. $P_n = \frac{2(w + U)}{b}$

Q.5 In an orthographic projection, how are the projection lines related to the projection planes?

Ans

✗ 1. Oblique

✗ 2. Tangential

✓ 3. Perpendicular

✗ 4. Parallel

Q.6 What is the term used for the temporary support utilised when fresh concrete is poured for construction of floors?

Ans

✓ 1. Shuttering

✗ 2. Reinforcement laying

✗ 3. Concreting

✗ 4. Shoring

Q.7 Which of the following is a common output device used in CAD systems for producing hard copies?

Ans

✗ 1. Keyboard

✓ 2. Plotter

✗ 3. Monitor

✗ 4. Mouse

Q.8 During the track construction of railways, which of the following factors is NOT considered?

Ans

✓ 1. Longest route

✗ 2. Track Alignment

✗ 3. Number of tracks

✗ 4. Type of gauge

Q.9 Which method is most effective for ensuring that quality assurance procedures are followed throughout a construction project?

Ans

✗ 1. Random inspections by the project manager

✓ 2. Routine audits and monitoring by Quality Assurance Consultants

✗ 3. Frequent changes in project leadership

✗ 4. Regular training sessions for workers

Q.10 Different stages in construction of cement concrete pavement is mentioned below. Arrange them in correct order, as per the construction process.

- a: Placing forms
- b: Preparation of subgrade and sub base
- c: Compaction and finishing
- d: Transportation and placing of concrete

Ans

- 1. b-d-a-c
- 2. b-c-a-d
- 3. a-b-c-d
- 4. b-a-d-c

Q.11 What is the purpose of transferring dimensions from a pictorial view to orthographic views?

Ans

- 1. To simplify the drawing process
- 2. To provide a realistic perspective
- 3. To ensure accurate representation of an object's size
- 4. To provide a 3D view of the object

Q.12 When sewage is disposed of in water bodies, which of the following processes is crucial to prevent eutrophication?

Ans

- 1. Reduction of nitrogen and phosphorus
- 2. Removal of dissolved oxygen
- 3. Increase in total suspended solids
- 4. Addition of chemical oxidants

Q.13 What is the purpose of the aeration process in water treatment plants?

Ans

- 1. To coagulate the particles
- 2. To remove suspended solids
- 3. To disinfect the water
- 4. To add oxygen and remove volatile substances

Q.14 A project has a scheduled completion time of 50 days and a standard deviation of 10 days. The probability of completion of the project for a delay of 24 days after its scheduled completion time is _____ (close to two decimal places).

Take normal deviation vs % completion values as:

Normal Deviation	% Completion
+2.3	1.1
+2.4	0.8

Ans

- 1. 0.80%
- 2. 11.00%
- 3. 1.10%
- 4. 8.00%

Q.15 In which type of contract does the contractor bear the highest risk for cost overruns?

Ans

- 1. Cost-plus contract
- 2. Unit price contract
- 3. Time and materials contract
- 4. Fixed-price contract

Q.16 Which type of line is sketched downward with the movement of fingers in freehand drawings of machine elements?

Ans 1. Horizontal lines
 2. Inclined lines
 3. Curved lines
 4. Vertical lines

Q.17 The electronic staircase which is used for transportation of passengers or goods is known as _____.

Ans 1. ventilator
 2. lift
 3. ramp
 4. escalator

Q.18 The type of cement concrete pavement which posses noteworthy flexural strength and is capable of transmitting the wheel load stresses by slab action belongs to the category of _____.

Ans 1. rigid pavement
 2. composite pavement
 3. semi-rigid pavement
 4. flexible pavement

Q.19 Study the following statements regarding bar charts and select the correct option.

Statements:

- 1: Bar charts are not useful in a project where there are uncertainties in determining activity duration.
- 2: The interdependency between the activities cannot be clearly depicted using a bar chart.

Ans 1. Neither statement 1 nor 2 is true
 2. Only statement 2 is true
 3. Only statement 1 is true
 4. Both statements 1 and 2 are true

Q.20 Which hazardous chemical is commonly found in electronic waste and poses significant environmental and health risks?

Ans 1. Neon
 2. Sodium chloride
 3. Mercury
 4. Carbon monoxide

Q.21 Which of the following fields of engineering is NOT relevant to railways?

Ans 1. Aeronautical Engineering
 2. Civil Engineering
 3. Mechanical Engineering
 4. Electrical Engineering

Q.22 The type of pointing process that is produced by providing a V-shaped groove at the head centre in cohesive mortar joints is called _____.

Ans 1. V-pointing
 2. flush pointing
 3. ruled pointing
 4. stuck pointing

Q.23	Which of the following is a characteristic of 'Straight Through Flow' type of layout in stores management?
Ans	<p><input checked="" type="checkbox"/> 1. The layout is arranged depending on how the materials are stored.</p> <p><input checked="" type="checkbox"/> 2. Materials move in one direction along the length of the store which has same entry and exit point.</p> <p><input checked="" type="checkbox"/> 3. Materials move in one direction along the length of the store which has entry and exit points at the opposite ends.</p> <p><input checked="" type="checkbox"/> 4. Speed of material movement is one of the factors for selection of this type of layout.</p>
Q.24	What is the definition of 'Duty of water'?
Ans	<p><input checked="" type="checkbox"/> 1. The relationship between irrigation water and the area of the crop that matures fully with the given amount of water.</p> <p><input checked="" type="checkbox"/> 2. The relationship between irrigation water and the depth of the water table.</p> <p><input checked="" type="checkbox"/> 3. The relationship between irrigation water and the amount of crop produced.</p> <p><input checked="" type="checkbox"/> 4. The relationship between irrigation water and the time required for the crop to mature.</p>
Q.25	What is the first step in the land acquisition process under the Land Acquisition Act, 1894?
Ans	<p><input checked="" type="checkbox"/> 1. Payment to affected parties</p> <p><input checked="" type="checkbox"/> 2. Publication of preliminary notification</p> <p><input checked="" type="checkbox"/> 3. Final declaration of acquisition</p> <p><input checked="" type="checkbox"/> 4. Determination of compensation</p>
Q.26	What is the full form of E-waste in the context of solid waste?
Ans	<p><input checked="" type="checkbox"/> 1. Engineering waste</p> <p><input checked="" type="checkbox"/> 2. Economical waste</p> <p><input checked="" type="checkbox"/> 3. Environmental waste</p> <p><input checked="" type="checkbox"/> 4. Electronic waste</p>
Q.27	During the construction of concrete pavements, which of the following materials acts as a binder, resulting in increase in the pavement strength?
Ans	<p><input checked="" type="checkbox"/> 1. Granular bases</p> <p><input checked="" type="checkbox"/> 2. Coarse aggregates</p> <p><input checked="" type="checkbox"/> 3. Sand</p> <p><input checked="" type="checkbox"/> 4. Cement</p>
Q.28	Which type of sewer pipe material is most resistant to corrosion from acidic soil and wastewater?
Ans	<p><input checked="" type="checkbox"/> 1. Concrete</p> <p><input checked="" type="checkbox"/> 2. Brick</p> <p><input checked="" type="checkbox"/> 3. Vitrified clay</p> <p><input checked="" type="checkbox"/> 4. Cast iron</p>
Q.29	What is the maximum permissible value (limiting value) of superelevation on broad gauge (Group A,B ,and C) tracks of Indian railways, under normal conditions ?
Ans	<p><input checked="" type="checkbox"/> 1. 200 mm</p> <p><input checked="" type="checkbox"/> 2. 165 mm</p> <p><input checked="" type="checkbox"/> 3. 100 mm</p> <p><input checked="" type="checkbox"/> 4. 150 mm</p>
Q.30	The width of broad gauge in Indian railways is _____ .
Ans	<p><input checked="" type="checkbox"/> 1. 1476 mm</p> <p><input checked="" type="checkbox"/> 2. 1376 mm</p> <p><input checked="" type="checkbox"/> 3. 1576 mm</p> <p><input checked="" type="checkbox"/> 4. 1676 mm</p>

Q.31 The concept of Free Float in a CPM Network is based on the assumption that _____.

Ans 1. predecessor activities start as late as possible and successor activities start as early as possible
 2. all activities start as early as possible
 3. all activities start as late as possible
 4. predecessor activities start as early as possible and successor activities start as late as possible

Q.32 The main factor that is further driving the growth of wind energy in India is:

Ans 1. decreasing pollution by coal-based power plants
 2. increasing off-shore wind potential
 3. increasing wind storms
 4. increasing area of Thar desert

Q.33 Which of the following types of sloping roof is used for increasing the height of a room?

Ans 1. Collar beam roof
 2. Couple roof
 3. Lean-to roof
 4. Closed couple roof

Q.34 Which variable is affected directly when you change the dimension style in AutoCAD?

Ans 1. DIMSCALE
 2. DIMDLI
 3. DIMSTYLE
 4. DIMORDINATE

Q.35 Which factor significantly affects the settling velocity of particles during sedimentation?

Ans 1. Colour of water
 2. Temperature of water
 3. Density of the tank
 4. Volume of water

Q.36 Which command is used to initiate the change of dimension variables for a selected dimension in AutoCAD?

Ans 1. Dimoverride
 2. Properties
 3. Dimedit
 4. Dimstyle

Q.37 What is the primary purpose of the bid security included with the bid?

Ans 1. To protect the owner if the bidder refuses to sign the contract after winning
 2. To provide funds for project start-up costs
 3. To guarantee the lowest bid
 4. To ensure that the bid complies with state laws

Q.38 How does an earthquake impact the stability of a gravity dam?

Ans 1. It increases the weight of the dam.
 2. It creates additional hydrostatic forces in the reservoir.
 3. It enhances the stability of the dam due to vibration.
 4. It can cause sliding along weak planes in the foundation.

Q.39 The Trim command is used for:

Ans 1. extending a line to a specific point
 2. rotating the drawing
 3. changing the scale of the drawing
 4. erasing unwanted parts of lines that extend beyond a cutting edge

Q.40 What is typically adopted as the standard for determining labour wages in construction projects?

Ans 1. The total cost of the project
 2. Local construction company rates
 3. Recommendations from suppliers
 4. Minimum wages notified by the Ministry of Labour & Employment

