



# PTE/2024



Series :

# A

# 750889

Question Booklet No.  
प्रश्न पुस्तिका क्रम संख्या

अनुक्रमांक

Roll No.

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परीक्षार्थी अपना अनुक्रमांक दिए गए खानों में लिखें

Candidate should write his/her Roll No. in the given boxes

मुद्रित पृष्ठों की संख्या/No. of Printed Pages : 40

कुल प्रश्नों की संख्या/Total No. of Questions : 150

समय/Time : 3 घण्टे/3 Hours

पूर्णांक/Total Marks : 450

### परीक्षार्थियों के लिए निर्देश

1. परीक्षा प्रारम्भ होने के तुरन्त बाद, आप इस प्रश्न-पुस्तिका की पड़ताल अवश्य कर लें, कि इसमें कोई बिना छपा, फटा या छूटा हुआ पृष्ठ अथवा प्रश्नांश, आदि न हो। यदि ऐसा है, तो वीक्षक से तत्काल संपर्क कर प्रश्न-पुस्तिका बदल लेवें।
2. यह प्रश्न-पुस्तिका सम्मिलित रूप से दो खण्डों में विभाजित है, खण्ड-‘अ’ तथा खण्ड-‘ब’।
3. खण्ड-‘अ’ के प्रश्न सामान्य अध्ययन से संबंधित है, जिसमें कुल 50 प्रश्न हैं। सभी प्रश्न हिन्दी तथा अंग्रेजी भाषा में हैं। सभी प्रश्न अनिवार्य हैं।
4. खण्ड-‘ब’ के प्रश्न इंजीनियरिंग कौशल विकास और व्यावसायिक प्रशिक्षण विषय से है, जिसमें कुल 100 प्रश्न हैं। सभी प्रश्न अंग्रेजी भाषा में हैं। सभी प्रश्न अनिवार्य हैं। अभ्यर्थी स्वयं यह सुनिश्चित कर लें कि जिस पद हेतु आवेदन किया है वही विषय का प्रश्न-पत्र प्राप्त हुआ है।
5. सभी प्रश्नों के अंक समान हैं। प्रत्येक सही उत्तर के लिए 03 अंक प्रदान किए जायेंगे। परीक्षा योजना के अनुसार ऋणात्मक मूल्यांकन का प्रावधान है। प्रत्येक गलत उत्तर के लिए 01 अंक काटा जायेगा।
6. प्रदत्त उत्तर-पत्र (ओ० एम० आर०) पर दिए गए निर्देशों को ध्यानपूर्वक पढ़ें तथा अपने उत्तर तदनुसार अंकित करें।
7. कृपया उत्तर-पत्र (ओ० एम० आर०) के निर्धारित स्थानों पर आवश्यक प्रविष्टियाँ करें, अन्यत्र स्थानों पर नहीं।
8. परीक्षार्थी सभी रफ़ कार्य प्रश्न-पुस्तिका के अंतिम पृष्ठ पर निर्धारित स्थान पर ही करें, अन्यत्र कहीं नहीं तथा उत्तर-पत्र (ओ० एम० आर०) पर भी नहीं।
9. यदि किसी प्रश्न में किसी प्रकार की कोई मुद्रण या तथ्यात्मक प्रकार की त्रुटि हो, तो प्रश्न के हिन्दी तथा अंग्रेजी रूपांतरों में से हिन्दी रूपांतर को मानक माना जाएगा (खण्ड-‘अ’ के सन्दर्भ में)।

### INSTRUCTIONS TO THE CANDIDATES

1. Immediately after the commencement of the examination, you should check that this Question Booklet **does not** have any unprinted or torn or missing pages or items etc. If so, immediately contact the Invigilator and get it replaced with Question Booklet.
2. This combined Question Booklet is divided in **two** Sections, Section-‘A’ and Section-‘B’.
3. Section-‘A’ contains **50** questions of **General Studies**. All questions are in Hindi and English language. **All** questions are compulsory.
4. Section-‘B’ contains **100** questions of **Engineering Skill Development and Vocational Training** subject. All questions are in English language. **All** questions are compulsory. Candidates should ensure that he/she has got the question paper of the same post for which he/she had applied.
5. **All** questions carry equal marks. **Three (03)** marks will be given for each **correct** answer. There is provision of **Negative Markings** as per examination plan. For each wrong answer, **One (01)** mark will be deducted.
6. Read carefully the instructions given on the Answer Sheet (OMR) supplied and indicate your answers accordingly.
7. Kindly make necessary entries on the Answer Sheet (OMR) at the places indicated and nowhere else.
8. Examinee should do all rough works on the space meant for rough work on pages given at the end of the Question Booklet and nowhere else, not even on the Answer Sheet (OMR).
9. If there is any sort of mistake either of printing or of factual nature in any question, then out of the Hindi and English versions of the question, the Hindi version will be treated as standard (with ref. to Section-A).

PTE/2024

Engineering Skill Development and Vocational Training





### खण्ड—'अ'

#### सामान्य अध्ययन

1. निम्नलिखित कथनों पर विचार कीजिए :



(a) संविधान की बारहवीं (12वीं) अनुसूची में 18 विषय हैं जिन पर पंचायतों को विधि बनाने की शक्ति प्रदान की गई है।

(b) संविधान की ग्यारहवीं (11वीं) अनुसूची में 29 विषय हैं जिनमें नगरपालिकाओं को विधि बनाने की शक्ति प्रदान की गई है।

नीचे दिये विकल्पों से सही उत्तर चुनिए :

[A] केवल (a) सही है

[B] केवल (b) सही है

[C] (a) और (b) दोनों गलत हैं

[D] (a) और (b) दोनों सही हैं

2. मध्य प्रदेश राज्य अनुसूचित जाति आयोग अधिनियम क्रमांक \_\_\_\_\_ के अन्तर्गत गठित किया गया था।



[A] 24, वर्ष – 1993

[B] 25, वर्ष – 1994

[C] 25, वर्ष – 1995

[D] 24, वर्ष – 1994

3. पंचायत अनुसूचित क्षेत्रों तक विस्तार (PESA) अधिनियम, 1996 के संदर्भ में निम्न कथनों पर विचार कीजिए :



(a) पेसा अधिनियम, संविधान के भाग IX A से संबंधित है।

(b) यह पंचायतों से संबंधित है।

(c) यह स्थानीय स्वशासन के प्रावधानों को भारत के अनुसूचित क्षेत्रों तक विस्तारित करता है।

(d) यह स्वशासन की प्राथमिक इकाई के रूप में ग्राम सभा की भूमिका पर जोर देता है।

सही उत्तर का चयन कीजिए :

[A] केवल (a), (b) और (c) सही हैं

[B] केवल (b), (c) और (d) सही हैं

[C] उपर्युक्त सभी सही हैं

[D] उपर्युक्त सभी सही नहीं हैं

4. मध्य प्रदेश में सुमन कार्यक्रम का मुख्य उद्देश्य क्या है?



[A] डिजिटल स्वास्थ्य सेवा रिकॉर्ड को बढ़ावा देना।

[B] उच्च जोखिम वाली गर्भवती महिलाओं और बच्चों की निगरानी।

[C] मुफ्त दवाओं का वितरण।

[D] बीमा कवरेज बढ़ाना।



## SECTION—'A'

### General Studies

1. Consider the following statements :



(a) There are 18 subjects in the Twelfth (12th) Schedule of the Constitution on which the Panchayats have been given the power to make law.

(b) There are 29 subjects in the Eleventh (11th) Schedule of the Constitution in which municipalities have been given the power to make law.

Choose the **correct** answer from the options given below :

[A] Only (a) is correct

[B] Only (b) is correct

[C] Both (a) and (b) are incorrect

[D] Both (a) and (b) are correct

2. Madhya Pradesh State Scheduled Caste Commission was constituted under Act number

[A] 24, Year – 1993

[B] 25, Year – 1994

[C] 25, Year – 1995

[D] 24, Year – 1994



3. Consider the following statements with reference to the Panchayat Extension to Scheduled Areas (PESA) Act, 1996 :

(a) The PESA Act relates to Part IX A of the Constitution.

(b) This is related to Panchayats.

(c) It extends the provisions of local self-governance to the scheduled areas of India.

(d) It emphasises the role of the Gram Sabha as the primary unit of self-governance.

Choose the **correct** answer :

[A] Only (a), (b) and (c) are correct

[B] Only (b), (c) and (d) are correct

[C] All of the above are correct

[D] All of the above are not correct



4. What is the main objective of the Suman program in Madhya Pradesh?

[A] To promote digital health records.

[B] To monitor high risk pregnant women and children.

[C] To distribute free medicines.

[D] To increase insurance coverage.



5. निम्न में से कौन-सा, SDG लक्ष्य में, मध्य प्रदेश SDG India Index 4.0 के अनुसार, फ्रन्ट स्तर श्रेणी में नहीं है?

- [A] लक्ष्य 1 – गरीबी नहीं
- [B] लक्ष्य 6 – स्वच्छ जल एवं स्वच्छता
- [C] लक्ष्य 8 – अच्छा रोजगार और आर्थिक विकास
- [D] लक्ष्य 15 – भूमि पर जीवन

6. मध्य प्रदेश के राज्यपाल श्री मंगूभाई पटेल ने \_\_\_\_\_ को अपना कार्यभार ग्रहण किया था। उन्हें प्रदेश के मुख्य न्यायाधीश \_\_\_\_\_ ने राज्यपाल की शपथ दिलाई।

( पदभार ग्रहण करने की तिथि ) ( मुख्य न्यायाधीश का नाम )

- [A] 08 जुलाई, 2021 – श्री मोहम्मद रफीक
- [B] 18 जुलाई, 2021 – श्री अजय कुमार मित्तल
- [C] 08 जुलाई, 2022 – श्री रवि मलिमथ
- [D] 18 जुलाई, 2022 – श्री एस. के. सेठ

7. मध्य प्रदेश राज्य सचिवालय वल्लभ भवन की आधारशिला किसके द्वारा और कब रखी गई थी?

( आधारशिला रखने वाले ) ( रखने का वर्ष )

- [A] श्री मोरारजी देसाई – 1957
- [B] श्री जवाहरलाल नेहरू – 1958
- [C] श्री कैलाशनाथ काटजू – 1956
- [D] श्री द्वारका प्रसाद मिश्र – 1959

8. वर्ष 2023-24 में राष्ट्रीय औसत की तुलना में मध्य प्रदेश की प्रति व्यक्ति आय कितने प्रतिशत थी (चालु कीमतों पर)?

- [A] 60.7%
- [B] 63.4%
- [C] 77.4%
- [D] 84.2%

9. निम्नलिखित उत्पादों को उनके संबंधित स्थानों से मिलाएँ :

( उत्पाद ) ( स्थान )

- (a) दादरवाड़ा तुअर दाल (i) नरसिंहपुर जिला
- (b) कुम्भराज धनिया (ii) सिवनी जिला
- (c) वीर शंकर चावल (iii) गुना जिला
- (d) चिन्नौर चावल (iv) महाकौशल

(a) (b) (c) (d)

- [A] (i) (ii) (iii) (iv)
- [B] (iv) (iii) (ii) (i)
- [C] (i) (iii) (ii) (iv)
- [D] (iv) (iii) (i) (ii)



5. According to SDG India Index 4.0, which of the following is **not** among the SDG goals where Madhya Pradesh is a front runner?

- [A] Goal 1 – No poverty  
[B] Goal 6 – Clean water and sanitation  
[C] Goal 8 – Decent work and economic growth  
[D] Goal 15 – Life on land

6. Madhya Pradesh Governor Shri Mangubhai Patel took over as the Governor on \_\_\_\_\_. He was administered the oath of Governor by the Chief Justice of the State \_\_\_\_\_.

( Date of assuming ( Name of the office ) Chief Justice )

- [A] 08th July, 2021 – Shri Mohammad Rafiq  
[B] 18th July, 2021 – Shri Ajay Kumar Mittal  
[C] 08th July, 2022 – Shri Ravi Malimath  
[D] 18th July, 2022 – Shri S. K. Seth

7. By whom and when was the foundation stone of Madhya Pradesh State Secretariat Ballabh Bhavan laid?

( The Foundation ( Year of Stone Layers ) Placement )

- [A] Shri Morarji Desai – 1957  
[B] Shri Jawaharlal Nehru – 1958  
[C] Shri Kailash Nath Katju – 1956  
[D] Shri Dwarka Prasad Mishra – 1959

8. In 2023–24, what was Madhya Pradesh's per capita income as a percentage of the national average (on current prices)?

- [A] 60.7%  
[B] 63.4%  
[C] 77.4%  
[D] 84.2%

9. Match the following products with their places :

| ( Product )             | ( Place )             |
|-------------------------|-----------------------|
| (a) Dadarwara Toor dal  | (i) Narsinghpur Dist. |
| (b) Kumbhraj coriander  | (ii) Seoni Dist.      |
| (c) Veer Shankar Rice   | (iii) Guna Dist.      |
| (d) Chinnor Rice        | (iv) Mahakaushal      |
| (a) (b) (c) (d)         |                       |
| [A] (i) (ii) (iii) (iv) |                       |
| [B] (iv) (iii) (ii) (i) |                       |
| [C] (i) (iii) (ii) (iv) |                       |
| [D] (iv) (iii) (i) (ii) |                       |



10. औद्योगिक प्रोत्साहन नीति 2025 के अनुसार, 2030 तक कितने नए रोजगार सृजित (प्रत्याशित) किए जाएंगे?

- [A] 1.0 मिलियन
- [B] 1.5 मिलियन
- [C] 2.0 मिलियन
- [D] 2.5 मिलियन

11. भारत के किस 20 वर्षीय युवा बैडमिंटन खिलाड़ी ने बी.डब्ल्यू.एफ. वर्ल्ड टूर, यू.एस. ओपन सुपर 300, 2025 का खिताब विश्व के तीसरी वरीयता प्राप्त खिलाड़ी को हरा कर जीता?

- [A] लक्ष्य सेन
- [B] आयुष शेटी
- [C] अंश नेगी
- [D] प्रणव राम एन.

12. पर्यावरण वर्गीकरण के संदर्भ में, यदि किसी पर्यावरण को 'अनिश्चित' कहा जाता है, तो इसका अर्थ है

- [A] यह हमेशा आंशिक रूप से प्रेक्षित होता है या निर्धारक नहीं होता है।
- [B] एजेंट हमेशा परिणामों का सही पूर्वानुमान लगा सकता है।
- [C] सभी परिणामों को समान संभावनाएं मिलती हैं।
- [D] प्रत्येक क्रिया का केवल एक संभव परिणाम होता है।



13. World Wide Web की खोज किसने की?

- [A] बिल गेट्स
- [B] स्टीव जॉब्स
- [C] लेरी पेज
- [D] टीम बर्नर्स-ली

14. गादली नृत्य किस जनजाति का लोक नृत्य है?

- [A] भील
- [B] कोरकू
- [C] मांझी
- [D] अगरिया

15. मझगाँव डॉक शिपबिल्डर्स लिमिटेड द्वारा निर्मित कौन-सा स्टेल्थ फ्रिगेट जहाज़, भारतीय नौसेना को दिनांक 1 जुलाई, 2025 को सौंपा गया?

- [A] आई.एन.एस. अरनाला
- [B] आई.एन.एस. सूरत
- [C] आई.एन.एस. उदयगिरि
- [D] आई.एन.एस. वागशीर

16. 'मंगल दिवस' योजना, मध्य प्रदेश शासन के किस विभाग से संबंधित है?

- [A] महिला एवं बाल विकास विभाग
- [B] स्कूल शिक्षा विभाग
- [C] लोक स्वास्थ्य एवं परिवार कल्याण विभाग
- [D] पंचायत एवं ग्रामीण विकास विभाग



10. How many jobs are expected to be created under the Industrial Promotion Policy 2025 by 2030?

- [A] 1.0 million
- [B] 1.5 million
- [C] 2.0 million
- [D] 2.5 million

11. Which young 20 years old Indian badminton player won the BWF World Tour, U.S. Open Super 300, 2025 title by defeating world's 3rd ranked player?

- [A] Lakshya Sen
- [B] Ayush Shetty
- [C] Ansh Negi
- [D] Pranaav Ram N.

12. In the context of environment classification, what does it mean if an environment is labelled 'uncertain'?

- [A] It is always partially observable or not deterministic.
- [B] The agent can always predict outcomes perfectly.
- [C] All outcomes are assigned equal probabilities.
- [D] Only one possible outcome exists for each action.

13. Who invented the World Wide Web?

- [A] Bill Gates
- [B] Steve Jobs
- [C] Larry Page
- [D] Tim Berners-Lee

14. Gadli dance is the folk dance of which tribe?

- [A] Bhil
- [B] Korku
- [C] Manjhi
- [D] Agariya

15. Which Stealth frigate ship built at Mazagon Dock Shipbuilders Limited was handed over to Indian Navy on 1st July, 2025?

- [A] INS Arnala
- [B] INS Surat
- [C] INS Udaygiri
- [D] INS Vagsheer

16. The 'Mangal Diwas' Yojana of Madhya Pradesh Government is related to which department?

- [A] Women and Child Development Department
- [B] School Education Department
- [C] Public Health and Family Welfare Department
- [D] Panchayat and Rural Development Department



17. वर्ष 2025 के पद्म श्री पुरस्कार से सम्मानित मध्य प्रदेश के चिकित्सक हैं

- [A] श्री बुधेन्द्र कुमार जैन
- [B] श्री जगदीश जोशीला
- [C] श्री सैली होल्कर
- [D] श्री हरचंदन सिंह भट्टी

18. मध्य प्रदेश की पलक शर्मा ने उत्तराखंड में आयोजित राष्ट्रीय खेल 2025 में किस विधा में स्वर्ण पदक प्राप्त किया ?

- [A] 1 मीटर स्प्रिंगबोर्ड गोताखोरी
- [B] मुक्केबाजी
- [C] तीरंदाजी
- [D] निशानेबाजी

19. एक सामान्य वेब सर्च इंजन में आपरेशन्स का सही क्रम क्या है ?

- [A] इंडेक्सिंग → सर्चिंग → क्रॉलिंग
- [B] क्रॉलिंग → सर्चिंग → इंडेक्सिंग
- [C] क्रॉलिंग → इंडेक्सिंग → सर्चिंग
- [D] सर्चिंग → इंडेक्सिंग → क्रॉलिंग



20. क्लाउड पर्यावरण में रैपिड इलास्टिसिटी प्राप्त करने के लिए मुख्य रूप से किस तकनीक का उपयोग होता है ?

- [A] मैनुअल हस्तक्षेप
- [B] ऑटोमेशन और ऑर्केस्ट्रेशन
- [C] स्थैतिक संसाधन आवंटन
- [D] भारी भौतिक अवसंरचना

21. मलंजखंड तांबा क्षेत्र किस जिले में स्थित है ?

- [A] बालाघाट
- [B] रीवा
- [C] सीधी
- [D] कटनी

22. 2011 की जनगणना के अनुसार, मध्य प्रदेश का सबसे कम जनघनत्व वाला जिला कौन-सा है ?

- [A] डिंडोरी
- [B] भिण्ड
- [C] झाबुआ
- [D] सतना



17. The recipient of Padma Shri Award 2025, doctor of Madhya Pradesh is

- [A] Shri Budhendra Kumar Jain
- [B] Shri Jagdish Joshila
- [C] Shri Sally Holkar
- [D] Shri Harchandan Singh Bhatti

18. At the National Games 2025 held in Uttarakhand, Palak Sharma of Madhya Pradesh won the gold medal in which event?

- [A] 1 Meter Springboard Diving
- [B] Boxing
- [C] Archery
- [D] Shooting

19. What is the **correct** order of operations in a typical Web Search Engine?

- [A] Indexing → Searching → Crawling
- [B] Crawling → Searching → Indexing
- [C] Crawling → Indexing → Searching
- [D] Searching → Indexing → Crawling

20. Which technology is mainly used to achieve rapid elasticity in cloud environment?

- [A] Manual intervention
- [B] Automation and Orchestration
- [C] Static resource allocation
- [D] Heavy physical infrastructure

21. In which district is the Malanjkhanda copper field located?

- [A] Balaghat
- [B] Rewa
- [C] Sidhi
- [D] Katni

22. According to the 2011 Census, which district has the lowest population density in Madhya Pradesh?

- [A] Dindori
- [B] Bhind
- [C] Jhabua
- [D] Satna



23. मध्य प्रदेश की कौन-सी नदी, कैमूर-श्रेणी में स्थित तमशाकुण्ड नामक जलाशय से निकलती है?

- [A] टोन्स
- [B] ताप्ती
- [C] सोन
- [D] केन

24. मध्य प्रदेश के चम्बल क्षेत्र में मृदा अपरदन का प्रमुख कारण कौन-सा है?

- [A] वायु अपरदन
- [B] अवनालिका अपरदन
- [C] गुरुत्वीय अपरदन
- [D] मरूस्थलीकरण

25. सिंचाई एवं जल आपूर्ति हेतु बनाई गई माही परियोजना किन दो जिलों के लिए है?

- [A] धार - झाबुआ
- [B] महेश्वर - खण्डवा
- [C] खण्डवा - खरगोन
- [D] उपर्युक्त में से कोई नहीं

26. सतपुड़ा की सबसे ऊँची चोटी धूपगढ़, किस पर्वत श्रेणी पर स्थित है?

- [A] मैकल श्रेणी
- [B] महादेव श्रेणी
- [C] मालवा श्रेणी
- [D] रीवा-पन्ना पठार

27. ताप्ती नदी का उद्गम कौन-से जिले से होता है?

- [A] नर्मदापुरम
- [B] हरदा
- [C] बैतूल
- [D] छिन्दवाड़ा

28. मध्य प्रदेश और उत्तर प्रदेश की अन्तर्राज्यीय बहुउद्देशीय परियोजना कौन-सी है?

- [A] हरसी परियोजना
- [B] भाण्डेर परियोजना
- [C] राजघाट परियोजना
- [D] सिंध परियोजना

29. अमरकंटक तापीय विद्युत केन्द्र किस जिले में स्थित है?

- [A] शहडोल
- [B] मंडला
- [C] उमरिया
- [D] बैतूल

30. मध्य प्रदेश का प्रमुख बॉक्साइट उत्पादक जिला कौन-सा है?

- [A] सतना
- [B] रीवा
- [C] शहडोल
- [D] छिन्दवाड़ा



**23.** Which river of Madhya Pradesh originates from the reservoir named Tamsakund located in the Kaimur range?

- [A] Tons
- [B] Tapti
- [C] Sone
- [D] Ken

**24.** Which is the main cause of soil erosion in the Chambal region of Madhya Pradesh?

- [A] Wind erosion
- [B] Gully erosion
- [C] Gravitational erosion
- [D] Desertification

**25.** Mahi project is the irrigation and water supply project for which two districts?

- [A] Dhar - Jhabua
- [B] Maheshwar - Khandwa
- [C] Khandwa - Khargone
- [D] None of the above

**26.** On which mountain range is the highest peak of Satpura, Dhoopgarh situated?

- [A] Maikal range
- [B] Mahadev range
- [C] Malwa range
- [D] Rewa-Panna range

**27.** From which district does the Tapti river originate?

- [A] Narmadapuram
- [B] Harda
- [C] Betul
- [D] Chhindwara

**28.** Which is the inter-State multipurpose project of Madhya Pradesh and Uttar Pradesh?

- [A] Harsi project
- [B] Bhandar project
- [C] Rajghat project
- [D] Sindh project

**29.** In which district is the Amarkantak thermal power station located?

- [A] Shahdol
- [B] Mandla
- [C] Umaria
- [D] Betul

**30.** Which district is the major bauxite producing district of Madhya Pradesh?

- [A] Satna
- [B] Rewa
- [C] Shahdol
- [D] Chhindwara



31. जनजातीय क्रांतिकारी स्व. श्री भभूत सिंह की जागीरदारी मध्य प्रदेश के किस जिले में थी?

- [A] नर्मदापुरम
- [B] बैतूल
- [C] छिन्दवाड़ा
- [D] मण्डला

32. 'राष्ट्रीय मानव संग्रहालय' कहाँ स्थित है?

- [A] जबलपुर
- [B] इन्दौर
- [C] भोपाल
- [D] मण्डला

33. 'धरती आबा' जनजातीय ग्राम उत्कर्ष अभियान के अन्तर्गत चयनित ग्राम की अनुसूचित जनजाति आबादी कितनी होनी चाहिए?

- [A] कम से कम 40%
- [B] कम से कम 50%
- [C] कम से कम 60%
- [D] कम से कम 70%

34. वन अधिकार अधिनियम, 2006, मध्य प्रदेश में कब से लागू हुआ है?

- [A] 1 जनवरी, 2006
- [B] 1 जनवरी, 2007
- [C] 1 जनवरी, 2008
- [D] 1 जनवरी, 2009



35. मध्य प्रदेश जनजातीय अनुसंधान एवं विकास संस्था का मुख्यालय वर्तमान में कहाँ स्थित है?

- [A] जबलपुर
- [B] इन्दौर
- [C] भोपाल
- [D] छिन्दवाड़ा

36. जनजातीय बोलियों एवं हिन्दी माध्यम से प्रसारित वन्या सामुदायिक रेडियो केन्द्रों का संचालन निम्न में से किस स्थान से नहीं किया जाता है?

- [A] मेघनगर
- [B] अलीराजपुर
- [C] खालवा
- [D] बैहर

37. 'कोल' जनजाति का निवास मुख्यतः मध्य प्रदेश के किस अंचल में है?

- [A] चंबल
- [B] निमाड़
- [C] बघेलखण्ड
- [D] मालवा



31. In which district of Madhya Pradesh was the Jagirdari of tribal revolutionary late Shri Bhabhut Singh?

- [A] Narmadapuram
- [B] Betul
- [C] Chhindwara
- [D] Mandala

32. Where is the 'Rashtriya Manav Sangrahalaya' located?

- [A] Jabalpur
- [B] Indore
- [C] Bhopal
- [D] Mandala

33. What should be the Scheduled Tribe population of the village selected under 'Dharti Aaba' Tribal Village Utkarsh Abhiyan?

- [A] At least 40%
- [B] At least 50%
- [C] At least 60%
- [D] At least 70%

34. When has the Forest Rights Act, 2006 been implemented in Madhya Pradesh?

- [A] 1st January, 2006
- [B] 1st January, 2007
- [C] 1st January, 2008
- [D] 1st January, 2009

35. Where is the headquarters of Madhya Pradesh Tribal Research and Development Institute located at present?

- [A] Jabalpur
- [B] Indore
- [C] Bhopal
- [D] Chhindwara

36. Vanya Community Radio Station's broadcasting in Tribal dialects and Hindi medium are **not** operated from which of the following places?

- [A] Meghnagar
- [B] Alirajpur
- [C] Khalwa
- [D] Baihar

37. In which region of Madhya Pradesh does the 'Kol' tribe mainly reside?

- [A] Chambal
- [B] Nimar
- [C] Baghelkhand
- [D] Malwa



**38.** अनुसूचित जाति और अनुसूचित जनजाति (अत्याचार निवारण) नियम, 1995 के नियम 16 के अनुसार, राज्य स्तरीय सतर्कता एवं निगरानी समिति की अध्यक्षता किसके द्वारा की जाती है?

- [A] राज्य के मुख्यमंत्री के द्वारा
- [B] गृह मंत्री के द्वारा
- [C] अनुसूचित जाति, जनजाति के मंत्री द्वारा
- [D] मुख्य सचिव के द्वारा

**39.** वर्ष 2025 में किस जनजातीय पर्व/उत्सव को मध्य प्रदेश शासन द्वारा राजकीय पर्व/उत्सव घोषित किया गया है?

- [A] गोटमार
- [B] मेघनाद
- [C] भगोरिया
- [D] करमा

**40.** IoT मॉडल का कौन-सा स्तर, संचार और प्रोसेसिंग यूनिट्स से संबंधित होता है?

- [A] स्तर 2 – संयोजकता
- [B] स्तर 4 – डेटा संचय
- [C] स्तर 6 – अनुप्रयोग
- [D] स्तर 7 – सहयोग



**41.** प्रसिद्ध गोंड दुर्ग देवगढ़ किस जिले में स्थित है?

- [A] छिन्दवाड़ा
- [B] सिवनी
- [C] अनूपपुर
- [D] सोहागपुर

**42.** प्रतिहारों के पतन के पश्चात जेजाकभुक्ति (मध्य प्रदेश) में कौन-सा राजवंश स्वतन्त्र शक्ति के रूप में उभरा?

- [A] परिव्राजक
- [B] राजर्षितुल्य
- [C] आभिर
- [D] चन्देल

**43.** 1980 में जनजातीय कल्याण विभाग (मध्य प्रदेश) द्वारा \_\_\_\_\_ स्थापित किया गया था।

- [A] कर्मा
- [B] वन्या
- [C] परम्परा
- [D] प्रयोग



38. According to Rule 16 of the Scheduled Caste and Scheduled Tribes (Prevention of Atrocities) Act, 1995, who is the Chairman of the State Level Vigilance and Monitoring Committee?

- [A] The Chief Minister of the State
- [B] The Home Minister
- [C] The Minister of Scheduled Caste and Scheduled Tribes
- [D] The Chief Secretary

39. Which tribal festival has been declared as the State festival by the Madhya Pradesh Government in the year 2025?

- [A] Gotmar
- [B] Meghnad
- [C] Bhagoria
- [D] Karma

40. Which level of IoT model deals with communication and processing units?

- [A] Level 2 – Connectivity
- [B] Level 4 – Data accumulation
- [C] Level 6 – Application
- [D] Level 7 – Collaboration

41. In which district is the famous Gond fort Devgarh located?

- [A] Chhindwara
- [B] Seoni
- [C] Anuppur
- [D] Sohagpur

42. Which dynasty emerged as an independent power in Jejakabhukti (Madhya Pradesh) after the decline of Pratiharas?

- [A] Parivrajak
- [B] Rajarshitulya
- [C] Aabhira
- [D] Chandelas

43. In 1980, Tribal Welfare Department in Madhya Pradesh established

- [A] Karma
- [B] Vanya
- [C] Parampara
- [D] Prayog



44. मध्य प्रदेश के किस स्थान से सम्राट अशोक के अभिलेख प्राप्त नहीं हुए हैं?

- [A] साँची
- [B] गुर्जरा
- [C] पानगुराडिया
- [D] सागर

45. निम्न में से कौन-सा युग्म सुमेलित नहीं है?



- [A] तिगवा — विष्णु मंदिर
- [B] खरवई — प्रागैतिहासिक शैल चित्र
- [C] नचना कुठारा — पार्वती मंदिर
- [D] भूमरा — रामगुप्त अभिलेख

46. मत्तमयूर सम्प्रदाय का सम्बन्ध \_\_\_\_\_ से था।



- [A] शैव
- [B] वैष्णव
- [C] बौद्ध
- [D] जैन

47. कौन-सा ताम्रपाषाणकालीन स्थल मध्य प्रदेश में नहीं है?



- [A] कायथा
- [B] नवदाटोली
- [C] एरण
- [D] इनामगाँव

48. अकबर के आक्रमण के समय असीरगढ़ दुर्ग किस वंश के अधिकार में था?



- [A] गोंड
- [B] फारूकी
- [C] खिलजी
- [D] परमार

49. 1854 में बुन्देलखण्ड एवं बघेलखण्ड को मालवा में सम्मिलित कर \_\_\_\_\_ का निर्माण हुआ।



- [A] सागर नर्मदा एजेन्सी
- [B] विन्ध्य प्रदेश एजेन्सी
- [C] इन्दौर एजेन्सी
- [D] सेन्ट्रल इण्डिया एजेन्सी

50. गोंडकालीन प्रसिद्ध साहित्यिक ग्रन्थ गद्देश नृपवर्णनम् एवं रामविजय महाकाव्य के लेखक कौन थे?



- [A] हृदयशाह
- [B] रूपनाथ झा
- [C] वैद्यनाथ झा
- [D] निजाम शाह



44. From which place of Madhya Pradesh have Emperor Ashok's inscriptions **not** been found?

- [A] Sanchi
- [B] Gurjara
- [C] Panguradiya
- [D] Sagar

45. Which of the following pairs is **not correctly** matched?

- [A] Tigwa — Vishnu Temple
- [B] Kharwai — Prehistoric rock paintings
- [C] Nachna Kuthara — Parvati Temple
- [D] Bhumara — Ramagupta inscription

46. The Mattamayura sect was associated with

- [A] Shaiva
- [B] Vaishnav
- [C] Buddhist
- [D] Jain

47. Which chalcolithic site is **not** in Madhya Pradesh?

- [A] Kaytha
- [B] Navdatoli
- [C] Eran
- [D] Inamgaon

48. At the time of Akbar's invasion, which dynasty had control over the Asirgarh fort?

- [A] Gond
- [B] Farooqui
- [C] Khilji
- [D] Parmar

49. In 1854, Bundelkhand and Baghelkhand were merged with Malwa and \_\_\_\_\_ was formed.

- [A] Sagar Narmada Agency
- [B] Vindhya Pradesh Agency
- [C] Indore Agency
- [D] Central India Agency

50. Who was the author of the famous literary works Gadesha Nripavarnanam and Ramvijay Mahakavya during the Gond period?

- [A] Hridayshah
- [B] Rupnath Jha
- [C] Vaidyanath Jha
- [D] Nizam Shah

**SECTION—'B'****ENGINEERING SKILL DEVELOPMENT AND VOCATIONAL TRAINING**

- 51.** Permeability of a moulding sand is increased with
- [A] Increasing the moisture content.
- [B] Coarse grain size.
- [C] Increasing the compacting pressure.
- [D] Fine grain size.
- 52.** Which type of furnace is suitable only for quenching and tempering steel parts up to 260 °C?
- [A] Lead bath furnace
- [B] Oil bath furnace
- [C] Externally heated bath furnace
- [D] Immersed electrode bath furnace
- 53.** Which gauges are used for checking external threads?
- [A] Plug screw gauge
- [B] Ring screw gauge
- [C] Thread caliper gauge
- [D] No-go gauge
- 54.** Which instrument is used for measuring furnace temperature?
- [A] Thermometer
- [B] Thermo-pyrometer
- [C] Optical pyrometer
- [D] Electric pyrometer
- 55.** Higher cutting speed can be used in case of
- [A] Negative rake angle
- [B] Positive rake angle
- [C] Zero rake angle
- [D] None of the above
- 56.** The process, in which the cutter rotates in the same direction as that in which work is fed, is called
- [A] Plain Milling
- [B] Up Milling
- [C] Down Milling
- [D] Both Up Milling and Down Milling
- 57.** What is the order of temperature of the inner white cone, used for directly melting the steel joint?
- [A] 3100 °C
- [B] 3200 °C
- [C] 2800 °C
- [D] 2900 °C
- 58.** Which of the following is **not** a type of single-point cutting tool?
- [A] Ground type
- [B] Drill type
- [C] Tipped type
- [D] Bit type



59. A file with 20 teeth in 25 mm is called as

- [A] Rough file
- [B] Bastard file
- [C] Smooth file
- [D] Dead smooth file

60. Filler rod used in welding mild steel plate using Gas Metal ARC welding is made up of

- [A] Mild steel
- [B] Low-carbon steel
- [C] Medium-carbon steel
- [D] No filler rod is used

61. Which one is the **correct** statement regarding the dry friction?

- [A] Total friction is independent of the area in contact.
- [B] Total friction is proportional to the normal reaction.
- [C] Force required to start the motion is greater than the force required to maintain the motion.
- [D] All of the above

62. Regarding the location of the centre of gravity of a hemisphere of radius  $R$ , which of the following is **true**?

- [A] It would be at a distance  $\frac{3R}{8}$  from its base.
- [B] It would be at a distance  $\frac{R}{2}$  from its base.
- [C] It would be at a distance  $\frac{4R}{3\pi}$  from its base.
- [D] None of the above

63. Generally for most of the metals, the value of the Poisson's ratio lies between

- [A] 0.10 to 0.65
- [B] 0.25 to 0.85
- [C] 0.10 to 0.30
- [D] 0.25 to 0.34

64. When is any plane perpendicular to Vertical Plane (VP) and parallel to Horizontal Plane (HP)?

- [A] Its projection on the VP is of true shape and size.
- [B] Its projection on the HP is of true shape and size.
- [C] Its projection will be straight line on the HP and VP.
- [D] Neither of its two views shows true shape and size.



**65.** Match the following :



- |                   |                                                 |
|-------------------|-------------------------------------------------|
| (a) Pyramid       | (i) All the edges of base are equal in length   |
| (b) Cylinder      | (ii) Polyhedron                                 |
| (c) Regular solid | (iii) Solid of revolution                       |
| (d) Right solid   | (iv) Axis of solid is perpendicular to its base |

(a) (b) (c) (d)

- [A] (ii) (iii) (i) (iv)  
 [B] (i) (ii) (iii) (iv)  
 [C] (iv) (iii) (ii) (i)  
 [D] (iii) (ii) (iv) (i)

**66.** The power transmitted through the belt is maximum when the centrifugal tension is \_\_\_\_\_ of the maximum permissible tension in the belt.



- [A]  $2/3$   
 [B]  $1/4$   
 [C]  $4/3$   
 [D]  $1/3$

**67.** Lami's theorem is applied to



- [A] Four concurrent forces  
 [B] Two concurrent forces  
 [C] Three concurrent forces  
 [D] None of the above



**68.** The point on the stress-strain curve at which appreciable elongation occurs without any corresponding increase in the load is called



- [A] Yield point  
 [B] Fracture point  
 [C] Rupture point  
 [D] Elastic point

**69.** Which of the following statements is **true** ?



- I. Hidden lines consist of the short dashes.  
 II. Centre lines are represented by long and short dashes.  
 III. Outlines are thin and continuous.

- [A] Only I  
 [B] Only II  
 [C] Only III  
 [D] All of the above

**70.** As per the Bureau of Indian Standard (BIS), the trimmed size of A2 drawing sheet in mm is



- [A]  $450 \times 625$   
 [B]  $594 \times 841$   
 [C]  $297 \times 420$   
 [D]  $420 \times 594$



71. The base signal in a CRO is a



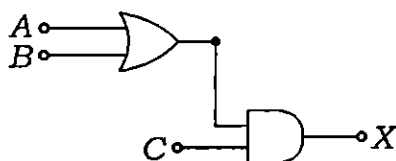
- [A] Sawtooth signal.
- [B] Sinusoidal signal.
- [C] Triangular wave signal.
- [D] Square wave signal.

72. The advantage of bridge-type full-wave rectifier over the conventional circuit lies with the



- [A] Efficiency of rectification.
- [B] Ripple factor.
- [C] Peak inverse voltage.
- [D] DC value.

73. To get an output 1 from the circuit as shown in the figure, the input ABC must be



- [A] 101
- [B] 100
- [C] 110
- [D] 010

74. The standard internet protocol is



- [A] TCP/IP
- [B] UDP
- [C] FTP
- [D] WWW

75. Which topology requires a central controller or hub?



- [A] Mesh
- [B] Star
- [C] Bus
- [D] Ring

76. Frequency of failure and network recovery time after a failure are measures of



- [A] Performance of a network.
- [B] Reliability of a network.
- [C] Security of a network.
- [D] Feasibility of a network.

77. The reverse saturation current  $I_0$  of a Ge diode varies as (where  $T$  is temperature)



- [A]  $T^3$
- [B]  $T^2$
- [C]  $T$
- [D]  $T^{1.5}$

78. Which of the following materials can be used to produce infrared LED?



- [A] GaAs
- [B] GaP
- [C] Si
- [D] PbS



79. Which of the following statements is **false** regarding electronic instruments?

- [A] Input impedance is high.
- [B] They can operate over a wide range of frequency.
- [C] They can detect low implied signals.
- [D] Power consumption, from circuit under test, of electronic instrument is high.

80. What is the term for the data communication system within a building or campus?

- [A] LAN
- [B] WAN
- [C] PAN
- [D] MAN

81. Three-phase currents of a balanced supply system produces a resultant flux of constant magnitude in the air gap of a three-phase induction motor. The magnitude of the flux at every instant is

- [A]  $\frac{\sqrt{3}}{2} \phi_m$
- [B]  $\frac{3}{2} \phi_m$
- [C]  $\frac{2}{\sqrt{3}} \phi_m$
- [D]  $\frac{2}{3} \phi_m$



82. A moving-coil milli-voltmeter has a resistance of  $200\Omega$  and the full-scale deflection is reached when a Pd of 100 mV is applied across the terminals. The moving coil has effective dimensions of  $30\text{ mm} \times 25\text{ mm}$  and is wound with 100 turns. The flux density in the gap is  $0.2\text{ Wb/m}^2$ . What will be the value of deflecting torque?

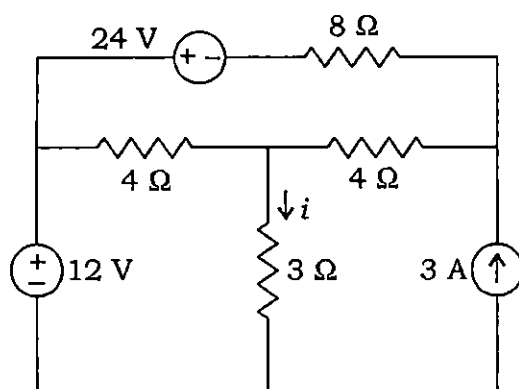
- [A]  $30 \times 10^{-5}\text{ N-m}$
- [B]  $75 \times 10^{-7}\text{ N-m}$
- [C]  $15 \times 10^{-4}\text{ N-m}$
- [D]  $6 \times 10^{-2}\text{ N-m}$

83. Which among the following statements is **not true**?

- [A] Resistance and conductance are positive quantities.
- [B] Power dissipated in a resistor is always positive.
- [C] Power dissipated in a resistor is a linear function of either voltage or current.
- [D] A resistor always absorbs power from the circuit.

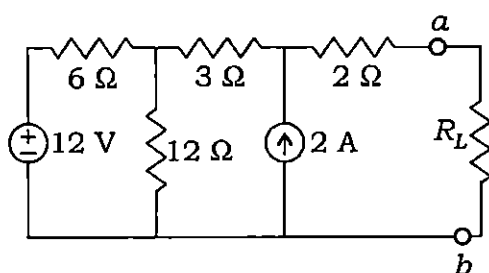


84. The value of the current  $i$ , as shown in the following circuit will be



- [A] 2 A  
[B] 2.5 A  
[C] 1 A  
[D] -2 A

85. The value of  $R_L$  for maximum power transfer in the following circuit is



- [A] 9 Ω  
[B] 12 Ω  
[C] 2 Ω  
[D] 6 Ω

86. A 230/110 V, 1- $\phi$  transformer takes an input of 350 VA at no-load and at rated voltage. Assume the core loss as 110 W. What is the magnetizing component of the no-load current?

- [A] 1.25 A  
[B] 0.478 A  
[C] 1.44 A  
[D] 1.042 A

87. Why is additional resistance connected in the rotor circuit of a three-phase wound rotor induction motor?

- [A] To reduce copper losses in the stator.  
[B] To decrease the magnetic flux.  
[C] To reduce the frequency of the rotor current.  
[D] To increase the starting torque and control the speed.



**88.** The flux in a magnetic core is alternating sinusoidally at a frequency of 600 Hz. The maximum flux density is 2 tesla and the eddy-current loss is 15 watts. What will be the eddy-current loss in the core, if the frequency is raised to 800 Hz and the maximum flux density is reduced to 1.5 tesla?

- [A] 20 watts
- [B] 26.67 watts
- [C] 15 watts
- [D] 8.44 watts

**89.** Why is each winding in a core-type transformer divided equally between the two legs of the core?

- [A] To keep the leakage flux to a minimum.
- [B] To reduce the number of turns required.
- [C] To simplify the winding process.
- [D] All of the above



**90.** Which of the following shape combinations are typically used to form the core of shell-type transformers?

- (i) L shape
- (ii) T shape
- (iii) E shape
- (iv) I shape
- (v) U shape
- [A] (iv) and (v) only
- [B] (iii) and (iv) only
- [C] (i) and (iv) only
- [D] (ii) and (iv) only

**91.** Who awards the National Craft Instructor Certificate (NCIC)?

- [A] Ministry of Labour (MoL)
- [B] Directorate General of Employment (DGE)
- [C] National Council for Vocational Education and Training (NCVET)
- [D] National Testing Agency (NTA)

**92.** The Craftsmen Training Scheme (CTS), introduced by Govt. of India in 1950, primarily aims to

- [A] Provide advanced research opportunities in industrial engineering.
- [B] Ensure a steady supply of skilled workers for domestic industries through systematic training.
- [C] Promote international trade and exports of Indian industrial goods.
- [D] Offer financial aid to small-scale industries.



**93.** Who is responsible for formulating National Occupational Standards (NOS) and Qualification Pack (QP) for different job roles under National Skills Qualification Framework (NSQF)?

- [A] District Skill Agency under Ministry of Labour
- [B] Sector Skill Councils (SSCs)
- [C] National Testing Agency (NTA)
- [D] University Grants Commission (UGC)

**94.** When was the Skills Acquisition and Knowledge Awareness for Livelihood Promotion (SANKALP) scheme launched and which platform is developed under SANKALP to capture skilling data?

- [A] 24th July 2018, Bharat Skills Portal
- [B] 19th January 2018, Skill India Portal
- [C] 8th March 2018, Indian Skills Portal
- [D] 25th October 2018, e-Skill Academy



**95.** Match the following achievements (SANKALP under PMKVY 3.0) under Directorate General of Training (DGT) with their correct details :

**( Particulars ) ( Facts / Data )**

(i) Number of new seats created in 2021

(a) 4000 seats

(b) 3500 seats

(ii) New ITIs accredited with seating capacity

(a) 11 New ITIs

(b) 21 New ITIs

(iii) Meetings convened by the Standing Committee on Accreditation and Affiliation during 2021

(a) 5 meetings

(b) 3 meetings

(i) (ii) (iii)

[A] (a) (a) (b)

[B] (b) (b) (a)

[C] (b) (b) (b)

[D] (a) (b) (b)



96. Which organisation is responsible for implementing Skill Strengthening for Industrial Value Enhancement (STRIVE) scheme?

- [A] National Skill Development Corporation (NSDC)
- [B] Directorate General of Training (DGT), Ministry of Skill Development and Entrepreneurship
- [C] Ministry of Human Resource Development
- [D] NITI Aayog



97. Which of the following is **not** a feature of the Pradhan Mantri Kaushal Vikas Yojana (PMKVY) Scheme, 2015?

- [A] Rewarding candidates with an average of ₹ 8,000 for skill training.
- [B] Benefiting 24 lakhs youth at a cost of ₹ 1,500 crores.
- [C] Enhancing the productivity of the existing workforce.
- [D] Offering financial support for setting up new start-ups.



98. What is the maximum monthly stipend amount shared by the Government under the NAPS scheme per apprentice and what is the maximum amount reimbursed for basic training costs per trainee under the National Apprenticeship Promotion Scheme (NAPS)?

- [A] ₹ 1,000, ₹ 5,000
- [B] ₹ 1,200, ₹ 6,500
- [C] ₹ 1,500, ₹ 7,500
- [D] ₹ 2,000, ₹ 8,000

99. Match the following training institutions with their numbers under Craft Instructor Training Scheme (CITS) :

( Training Institutions ) ( Numbers )

- |                                                |          |
|------------------------------------------------|----------|
| (a) National Skill Training Institutes (NSTIs) | (i) 11   |
| (b) Private Institute of Training of Trainers  | (ii) 06  |
| (c) State Government Institute of ToTs         | (iii) 33 |
| (d) Converted Govt. IToTs                      | (iv) 76  |

- |     | (a)   | (b)   | (c)   | (d)   |
|-----|-------|-------|-------|-------|
| [A] | (iii) | (i)   | (ii)  | (iv)  |
| [B] | (ii)  | (i)   | (iii) | (iv)  |
| [C] | (iv)  | (iii) | (ii)  | (i)   |
| [D] | (i)   | (ii)  | (iv)  | (iii) |



**100.** How many women are targeted to be trained annually under the Kaushalya Yojana in Madhya Pradesh since 2017-18? What is the minimum employment placement target after training under this scheme?

- [A] ₹ 50,000, 40%
- [B] ₹ 1,00,000, 50%
- [C] ₹ 1,50,000, 60%
- [D] ₹ 2,00,000, 70%

**101.** Which department oversees the functioning of Government ITIs in Madhya Pradesh?

- [A] Department of Higher Education
- [B] Directorate of Skill Development
- [C] Department of Technical Education
- [D] Directorate of Vocational Education

**102.** Which of the following is **not** listed as an eligible applicant for opening an ITI?

- [A] Sole Proprietary Companies
- [B] Private coaching centres without legal registration
- [C] Trusts or societies
- [D] Government administered institutions



**103.** What is identified as a major component of strategic development in libraries?

- [A] Staffing
- [B] Planning
- [C] Cataloguing
- [D] Budgeting

**104.** The technique, that involves repeatedly asking 'why' to reach the fundamental Season of a problem, is

- [A] SWOT analysis
- [B] Brainstorming
- [C] Root cause analysis
- [D] Pareto chart

**105.** A Government servant must get prior sanction to approach a court to defend an official act when

- [A] It affects his private life.
- [B] It has been defamed publicly.
- [C] It is unrelated to work.
- [D] It involves the media.



**106.** The Ministry of Skill Development and Entrepreneurship launched the STRIVE project. What does STRIVE stand for?

- [A] Skill Training and Research for Industrial Value Empowerment
- [B] Skill and Technology for Rural and Industrial Vocational Education
- [C] Skill Strengthening for Industrial Value Enhancement
- [D] Strategic Training Reform for Inclusive Vocational Empowerment



**107.** Who is responsible for the training of craft instructors and what is the main objective of this training?

- [A] State Governments; to promote entrepreneurship among instructors.
- [B] Ministry of Education; to enhance research capabilities of instructors.
- [C] Directorate General of Training (DGT); to provide instructors with skills and training methodology.
- [D] National Skill Development Corporation; to prepare instructors for administrative roles.



**108.** Mukhyamantri Kaushal Samvardhan Yojana has an aim of training \_\_\_\_\_ youths every year since 2017-18.

- [A] 2.5 lakhs
- [B] 5 lakhs
- [C] 50,000
- [D] 1 lakh

**109.** Strategic thinking in the context of library leadership involves which of the following elements?



- [A] Only managing daily operations.
- [B] Focusing on book purchases alone.
- [C] Formulating a future mission, developing strategy and structuring resources.
- [D] Outsourcing all services to external vendors.

**110.** Planning is considered to be at the heart of management activities because



- [A] It is the easiest function to perform.
- [B] It requires no analytical skills.
- [C] Its effectiveness is reflected across the organization's development.
- [D] It involves only top-level managers.



111. One poise is equal to



- [A]  $1/10 \text{ Ns/m}^2$
- [B]  $1/10 \text{ Nm/s}^2$
- [C]  $1 \text{ cm}^2/\text{sec}$
- [D]  $10^{-4} \text{ m}^2/\text{s}$

112. Match the item with its fluid type :



( Item )

( Fluid type )

(a) Printing ink (i) Dilatant fluid

(b) Sewage sludge (ii) Bingham plastic fluid

(c) Milk (iii) Pseudoplastic fluid

(d) Air (iv) Newtonian fluid

(a) (b) (c) (d)

[A] (i) (ii) (iii) (iv)

[B] (i) (iii) (iv) (ii)

[C] (iii) (ii) (iv) (i)

[D] (iv) (i) (ii) (iii)

113. Which probability distribution fits well in PERT analysis to estimate project activity duration?



- [A] Normal distribution
- [B] Poisson distribution
- [C] Exponential distribution
- [D] Beta distribution

114. A ridge canal is also known as



- [A] Contour canal
- [B] Side slope canal
- [C] Perennial canal
- [D] Watershed canal

115. Which method is used for converting observed rainfall values at various stations over a catchment?



- [A] Geometric mean method
- [B] Thiessen polygon method
- [C] Hexagon method
- [D] Conveyance method

116. Class-I brick, when immersed in water bath for 24 hours, should not absorb more than



- [A] 25% of its saturated weight.
- [B] 20% of its dry weight.
- [C] 30% of its saturated weight.
- [D] 40% of its dry weight.



117. Which method is used for removing the error due to non-parallelism in levelling?

- [A] Fly levelling.
- [B] Levelling by equalising the distance of backsight and foresight.
- [C] Check levelling.
- [D] Precise levelling.

118. Which contract is **not** suitable for projects susceptible to unpredicted hazards and variations and may have excavation of uncertain character?

- [A] Schedule contract
- [B] Turn-key contract
- [C] Lumpsum contract
- [D] Item rate contract

119. Water used for washing of clothes is not giving sufficient foam. Which test can be used to check the water quality?

- [A] Dissolved oxygen test
- [B] Hardness test
- [C] Total solids and dissolved solids
- [D] Residual chlorine by DPD test



120. Which gas caused serious air pollution in Bhopal, 1984?

- [A] Methyl isocyanide
- [B] Peroxy-acyl-nitrate
- [C] Ozone
- [D] Carbon monoxide

121. In agreement with the Government of India, five States have been taken into consideration for evaluation for skill development. One of these States is Madhya Pradesh. Name one other State.

- [A] Andhra Pradesh
- [B] Maharashtra
- [C] Tamil Nadu
- [D] West Bengal

122. National Skills Development Corporation (NSDC) was started in

- [A] 2008
- [B] 2010
- [C] 2012
- [D] 2014



**123.** The Gross Enrolment Ratio (GER) in 2021-22, which was achieved by the Mukhya Mantri Seekho Kamao Yojana, was

- [A] 28.9%
- [B] 25%
- [C] 17%
- [D] 13.8%

**124.** \_\_\_\_\_% of the population in Madhya Pradesh aged 15 and older in the State have received any formal vocational training (as per 2019-2020).

- [A] 1.2
- [B] 5
- [C] 3.4
- [D] 0.6

**125.** NVEQF stands for



- [A] National Vocational Exam Quest Framework
- [B] National Vocational Education Qualification Framework
- [C] Natural Victory Edition Qualifying Framework
- [D] Natural Vice Education Quest Foundation

**126.** MPCVET stands for



- [A] Madhya Pradesh Council for Vocational Education and Training
- [B] Maharashtra Committee for Vacation Exam Training
- [C] Madhya Pradesh Committee for Vacation Education and Transformation
- [D] Member of Parliament for Conduct of Vocational Exam and Training

**127.** Who is responsible for defining the norms related to instructor deployment in ITIs?



- [A] Ministry of HRD
- [B] NCERT
- [C] Directorate General of Training (DGT)
- [D] NASSCOM

**128.** Mukhya Mantri Seekho Kamao Yojana (MMSKY) was started in the year



- [A] 2021
- [B] 2023
- [C] 2022
- [D] 2024



**129.** The National Council for Vocational Education and Training (NCVET) was established on

- [A] 13th March, 2005
- [B] 15th October, 2008
- [C] 23rd April, 2012
- [D] 5th December, 2018

**130.** A heat source at 800 K loses 2000 kJ of heat to a sink at 500 K. The entropy generated during the process is

- [A] 0
- [B] -2.5 kJ/K
- [C] 4 kJ/K
- [D] 1.5 kJ/K

**131.** Which of the following statements is **false** regarding Carnot's theorem?

- [A] No real engine can be more efficient than a Carnot engine.
- [B] Efficiency of a Carnot engine depends on the substance used.
- [C] A Carnot engine is reversible engine.
- [D] All Carnot engines operating between the same two temperatures have the same efficiency.



**132.** A Carnot engine absorbs 200 J of heat from a reservoir at the temperature of the normal boiling point of water and rejects heat to a reservoir at the temperature of the triple point of water. The work done by the engine is

- [A] 200 J
- [B] 0
- [C] 53.6 J
- [D] 273.2 J



**133.** Enthalpy of an ideal gas depends upon

- [A] Temperature only
- [B] Volume only
- [C] Pressure only
- [D] None of the above

**134.** The NCVET has taken over the roles held by

- [A] NSDA and NCVT
- [B] NSDL and NECT
- [C] UGC and AICTE
- [D] Madhya Pradesh University and UGC



135. A rigid tank contains air at 500 kPa and 150 °C. As a result of heat transfer to the surroundings, the temperature and pressure inside the tank drop to 65 °C and 400 kPa respectively. The boundary work done during this process is

- [A] 42 MJ
- [B] 15 MJ
- [C] 0
- [D] -42 MJ

136. The term 'surroundings' in thermodynamics refers to

- [A] The entire universe
- [B] Everything external to the system
- [C] The system boundary
- [D] The control volume

137. For the same compression ratio and same heat addition, which relation of efficiency is **correct**?

- [A]  $\eta_{\text{Otto}} > \eta_{\text{Diesel}} > \eta_{\text{Dual}}$
- [B]  $\eta_{\text{Diesel}} > \eta_{\text{Otto}} > \eta_{\text{Dual}}$
- [C]  $\eta_{\text{Otto}} > \eta_{\text{Dual}} > \eta_{\text{Diesel}}$
- [D]  $\eta_{\text{Dual}} > \eta_{\text{Diesel}} > \eta_{\text{Otto}}$



138. In a vapour compression refrigeration cycle, the component which produces the refrigerating effect is the

- [A] Evaporator
- [B] Compressor
- [C] Condenser
- [D] Expansion valve

139. The dry bulb temperature is

- [A] The temperature at which water vapour starts condensing.
- [B] Measured by a thermometer covered in wet cloth.
- [C] The actual air temperature measured by an ordinary thermometer.
- [D] Always lower than wet bulb temperature.

140. For a given value of  $r$  (ratio of specific heat), efficiency of Otto cycle

- [A] Decreases with increase in  $r$ .
- [B] Increases with increase in  $r$ .
- [C] Is not affected.
- [D] None of the above



**141.** Which of the following is a feature that makes Skill India Initiative unique?

- [A] No emphasis has been given to new areas like real estate, textile etc.
- [B] Aiming to make an aging population in India skillful.
- [C] Training programmes are not on the lines of International level.
- [D] None of the above



**142.** As per the Periodic Labour Force Survey (PLFS), 2023-24 report, what percentage of the workforce did not receive any form of vocational training?

- [A] 65.3
- [B] 45.4
- [C] 54.5
- [D] 75.2



**143.** The main objective of establishing the five National Centers of Excellence for skilling as announced in 2024 Indian Budget is

- [A] To achieve Khelo India.
- [B] To achieve Make for India, Make for World in manufacturing.
- [C] To centralize all vocational trainings in one region.
- [D] To replace ITIs with digital-only courses.



**144.** Which of the following Commissions recommended the introduction of work experience as an integral part of school curriculum?

- [A] Mudaliar Commission
- [B] Yashpal Committee
- [C] Kothari Commission
- [D] NSDC Commission



**145.** As per NEP-2020 report, what is the primary reason for small number of students receiving vocational education in India?

- [A] Vocational education in the past focused largely on grades 11 and 12.
- [B] Vocational education focused on the primary school education.
- [C] Previous Governments have not given importance to vocational education.
- [D] Vocational education benefits are minimum.

**147.** Name the campaign launched by India on the occasion of the first ever World Youth Skill Day on 15th July, 2015.

- [A] Namami Ganga Campaign
- [B] Yuva Kalyan Kosh
- [C] Skill India Campaign
- [D] Sab Health Campaign

**146.** As per NEP-2020, why vocational education in India has not received importance compared to developed countries?

- [A] Vocational education is promoted only by private institutions.
- [B] Vocational education is perceived to be inferior to mainstream education.
- [C] Vocational education is not provided in local/mother tongue/ native language training.
- [D] Vocational education is only for rich population.

**148.** Which initiative has been launched by the National Policy on Skill Development and Entrepreneurship, 2015?

- [A] Skill India Mission
- [B] Khelo India
- [C] Mission Yuva
- [D] Ayushman Bharat Digital Mission



**149.** Which of the following are the reasons for launching Skill India Initiative?

- (a) Support for industrial and agricultural growth.
- (b) Promotion of entrepreneurship.
- (c) Promotion of vocational education in India.

Select the most appropriate option.

- [A] (a) and (b) only
- [B] (b) and (c) only
- [C] (a) and (c) only
- [D] (a), (b) and (c)

**150.** Which of the following challenges is/are faced by the skill development initiative in India?

- (a) Increasing capacity and capability of existing system to ensure equitable access to all.
- (b) Promoting lifelong learning as per emerging knowledge economy.
- (c) Creating effective convergence among all the systems i.e. school education Govt. and private initiatives.

Select the most appropriate option.

- [A] Only (a)
- [B] Only (a) and (b)
- [C] Only (c)
- [D] (a), (b) and (c)



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