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सहायक संचालक (तांत्रिक) तंत्ररीक्षण / उपसमिष्ट (तांत्रिक)  
महाराष्ट्र राज्य तंत्ररीक्षण मंडळ, महाराष्ट्र अभियांत्रिकी प्रशासकीय सेवा  
गट - ३७, चाळणी परीक्षा २०१८. परीक्षा दि. ९ डिसेंबर, २०१८  
→ संच क्रमांक 2018 MT2

**A**

प्रश्नपुस्तिका क्रमांक  
BOOKLET NO.

101325

वेळ : १ ( एक ) तास

प्रश्नपुस्तिका  
चाळणी परीक्षा

एकूण प्रश्न : 100

एकूण गुण : 200

**सूचना**

- (1) सदर प्रश्नपुस्तिकेत 100 अनिवार्य प्रश्न आहेत. उमेदवारांनी प्रश्नांची उत्तरे लिहिण्यास सुरुवात करण्यापूर्वी या प्रश्नपुस्तिकेत सर्व प्रश्न आहेत किंवा नाहीत याची खात्री करून घ्यावी. तसेच अन्य काही दोष आढळल्यास ही प्रश्नपुस्तिका समवेक्षकांकडून लगेच बदलून घ्यावी.

परीक्षा-क्रमांक									

↑ केंद्राची संकेताक्षरे

↑ शेवटचा अंक

- (2) आपला परीक्षा-क्रमांक ह्या चौकोनांत न विसरता बॉलपेनने लिहावा.
- (3) वर छापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर विशिष्ट जागी उत्तरपत्रिकेवरील सूचनेप्रमाणे न विसरता नमूद करावा.
- (4) या प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाला 4 पर्यायी उत्तरे सुचविली असून त्यांना 1, 2, 3 आणि 4 असे क्रमांक दिलेले आहेत. त्या चार उत्तरांपैकी सर्वात योग्य उत्तराचा क्रमांक उत्तरपत्रिकेवरील सूचनेप्रमाणे तुमच्या उत्तरपत्रिकेवर नमूद करावा. अशा प्रकारे उत्तरपत्रिकेवर उत्तरक्रमांक नमूद करताना तो संबंधित प्रश्नक्रमांकासमोर छायांकित करून दर्शविला जाईल याची काळजी घ्यावी. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.
- (5) सर्व प्रश्नांना समान गुण आहेत. यास्तव सर्व प्रश्नांची उत्तरे द्यावीत. घाईमुळे चुका होणार नाहीत याची दक्षता घेऊनच शक्य तितक्या वेगाने प्रश्न सोडवावेत. क्रमाने प्रश्न सोडविणे श्रेयस्कर आहे पण एखादा प्रश्न कठीण वाटल्यास त्यावर वेळ न घालविता पुढील प्रश्नांकडे वळावे. अशा प्रकारे शेवटच्या प्रश्नापर्यंत पोहोचल्यानंतर वेळ शिल्लक राहिल्यास कठीण म्हणून वगळलेल्या प्रश्नांकडे परतणे सोईस्कर ठरेल.
- (6) उत्तरपत्रिकेत एकदा नमूद केलेले उत्तर खोडता येणार नाही. नमूद केलेले उत्तर खोडून नव्याने उत्तर दिल्यास ते तपासले जाणार नाही.
- (7) प्रस्तुत परीक्षेच्या उत्तरपत्रिकांचे मूल्यांकन करताना उमेदवाराच्या उत्तरपत्रिकेतील योग्य उत्तरांनाच गुण दिले जातील. तसेच "उमेदवाराने वस्तुनिष्ठ बहुपर्यायी स्वरूपाच्या प्रश्नांची दिलेल्या चार उत्तरांपैकी सर्वात योग्य उत्तरेच उत्तरपत्रिकेत नमूद करावीत. अन्यथा त्यांच्या उत्तरपत्रिकेत सोडविलेल्या प्रत्येक चार चुकीच्या उत्तरांसाठी एका प्रश्नाचे गुण वजा करण्यात येतील".

**ताकीद**

ह्या प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपेपर्यंत ही प्रश्नपुस्तिका आयोगाची मालमत्ता असून ती परीक्षाकक्षात उमेदवारांला परीक्षेसाठी वापरण्यास देण्यात येत आहे. ही वेळ संपेपर्यंत सदर प्रश्नपुस्तिकेची प्रत/प्रती, किंवा सदर प्रश्नपुस्तिकेतील काही आशय कोणत्याही स्वरूपात प्रत्यक्ष वा अप्रत्यक्षपणे कोणत्याही व्यक्तीस पुरविणे, तसेच प्रसिद्ध करणे हा गुन्हा असून अशी कृती करणाऱ्या व्यक्तीवर शासनाने जारी केलेल्या "परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचा अधिनियम-82" यातील तरतुदीनुसार तसेच प्रचलित कायद्याच्या तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.

तसेच ह्या प्रश्नपत्रिकेसाठी विहित केलेली वेळ संपण्याआधी ही प्रश्नपुस्तिका अनधिकृतपणे बाळगणे हा सुद्धा गुन्हा असून तसे करणारी व्यक्ती आयोगाच्या कर्मचारीवृंदापैकी, तसेच परीक्षेच्या पर्यवेक्षकीयवृंदापैकी असली तरीही अशा व्यक्तीविरुद्ध उक्त अधिनियमानुसार कारवाई करण्यात येईल व दोषी व्यक्ती शिक्षेस पात्र होईल.

**पुढील सूचना प्रश्नपुस्तिकेच्या अंतिम पृष्ठावर पहा**

पर्यवेक्षकांच्या सूचनेविना हे सील उघडू नये

कच्चा कामासाठी जागा/SPACE FOR ROUGH WORK



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1. The main aim of BOAT is :
  - (1) To improve the capabilities of fresh engineers through on the job training
  - (2) To conduct CEP for working professionals
  - (3) To train the faculty of ITI and Polytechnics
  - (4) To conduct examination of apprentice engineers

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2. As per training policy of Government, the duration of foundation training for Group A Gazetted Officers is \_\_\_\_\_.
  - (1) Six weeks
  - (2) Eight weeks
  - (3) Ten weeks
  - (4) Twelve weeks

---

3. As per MCSR-1981, the family means the following dependent members residing with Government servant :
  - (1) Wife or husband + legitimate children and step-children
  - (2) Wife or husband + legitimate children and step-children + parents
  - (3) Wife or husband + legitimate children and step-children + parents + sisters and brothers
  - (4) Wife or husband + legitimate children and step-children + parents + sisters and minor brothers

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4. The institutes participated from Maharashtra State in Phase-I of TEQIP and funds disbursed to those institutes were \_\_\_\_\_ and \_\_\_\_\_ respectively.
  - (1) 17 institutes and 162.5 crores
  - (2) 15 institutes and 152.5 crores
  - (3) 16 institutes and 145 crores
  - (4) 18 institutes and 172 crores

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5. Which one of the following can not be a marketing strategy for Polytechnic ?
  - (1) Publishing institute information on website
  - (2) Publishing institute brochure every year
  - (3) Advertisement in industry bulletin
  - (4) Providing top class academic environment

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6. The 'regions' specified for functioning of MSBTE, as per its 1997 Act includes :
  - (1) Mumbai, Aurangabad, Nagpur and Pune
  - (2) Aurangabad, Nagpur and Pune
  - (3) Mumbai, Nagpur, Pune, Aurangabad and Nashik
  - (4) Mumbai, Nagpur, Amravati, Aurangabad, Pune and Nashik

कच्चा कामासाठी जागा/SPACE FOR ROUGH WORK

P.T.O.

7. Match the following.

Committees on Technical Education in India		Period of Committee	
(a)	Dr. Anil Kakodkar	(i)	1976
(b)	The Yashpal	(ii)	1996-1998
(c)	Dr. Kelkar	(iii)	2008-2009
(d)	Dr. Mashelkar	(iv)	2010-2011

Choose the correct combination :

	(a)	(b)	(c)	(d)
(1)	(i)	(ii)	(iii)	(iv)
(2)	(iv)	(iii)	(i)	(ii)
(3)	(iii)	(iv)	(ii)	(i)
(4)	(iv)	(iii)	(ii)	(i)

8. PERT is a technique for \_\_\_\_\_ developed by U.S. Navy.

- |                     |                     |
|---------------------|---------------------|
| (1) Work study      | (2) Fatigue study   |
| (3) System analysis | (4) Job description |

9. As per MSBTE Act, 1997, Polytechnic is defined as :

- (1) Institution imparting Diploma or Post Diploma in Engineering or Technology Education
- (2) Institution imparting Diploma or Post Diploma or Post Graduate Diploma in Engineering or Technology or Management Education
- (3) Institution imparting Diploma or Post Diploma or Post Graduate Diploma or Advanced Diploma in Engineering or Technology Education
- (4) Institution imparting Diploma or Post Diploma or Post Graduate Diploma or Advanced Diploma in Engineering or Technology or Management Education

10. "Buffer Stock" is the level of stock :

- (1) Half of the actual stock
- (2) At which the ordering process should start
- (3) Minimum stock level below which actual stock should not fall
- (4) Maximum stock in inventory

11. Polytechnics in Maharashtra were benefited from which of the following World Bank Assisted Projects ?

- |                                  |                                |
|----------------------------------|--------------------------------|
| (1) TECH. Ed. I and TECH. Ed. II | (2) TECH. Ed. I, II and III    |
| (3) TEQIP I and II               | (4) TECH. Ed. II and TEQIP - I |

कच्चा कामसाठी जागा/SPACE FOR ROUGH WORK

12. The Govt. Polytechnic Institute can do Revenue Generation through :

- (a) Providing consultancy to the industry.
- (b) Arranging training programmes for Industry employees.
- (c) Charging monitory fine to the students.
- (d) Selling of learning materials to the students.

Answer options :

- (1) (a) and (b) only
- (2) (a), (b), (c) and (d)
- (3) (a) only
- (4) (a), (b) and (d)

13. The periodic verification of B class stores at Government offices is done by Directorate of Accounts and Treasuries :

- (1) Once in 2 years
- (2) Once in 3 years
- (3) Once in 4 years
- (4) Once in 5 years

14. Read the Strategic Institutions of Technician Education System and the Role of Strategic Institutions. Match the Roles.

Strategic Institutions	Role
(a) Ministry of Technical Education	(i) To prepare budget and acquire the grants, disburse the grants to other Strategic Institutions
(b) Directorate of Technical Education	(ii) To lay down the policy necessary for upliftment of technical manpower
(c) Maharashtra State Board of Technical Education	(iii) To impart instructions as per curriculum document and conduct student evaluations
(d) The Polytechnics	(iv) To design and implement qualitative students evaluation system for awarding certificates to the students

Choose the correct combination :

- |     |      |       |       |       |
|-----|------|-------|-------|-------|
|     | (a)  | (b)   | (c)   | (d)   |
| (1) | (i)  | (ii)  | (iii) | (iv)  |
| (2) | (ii) | (i)   | (iv)  | (iii) |
| (3) | (i)  | (ii)  | (iv)  | (iii) |
| (4) | (iv) | (iii) | (ii)  | (i)   |

कच्चा कामासाठी जागा/SPACE FOR ROUGH WORK

P.T.O.

15. Which of the following are the objectives of MHRD ?

- (a) Formulating the National Policy on Education
- (b) Paying special attention to disadvantaged groups like poor, female and minorities
- (c) Encouraging international cooperation in the field of Education
- (d) Planned development of educational institutes throughout country

Answer options :

- |                      |                           |
|----------------------|---------------------------|
| (1) (a), (b) and (c) | (2) (a), (b) and (d)      |
| (3) (a), (c) and (d) | (4) (a), (b), (c) and (d) |

16. As per MSBTE Act of 1997, which of the following is **not** the condition of affiliation ?

- (1) There shall be a separate local managing committee.
- (2) There shall be suitable and adequate physical facilities.
- (3) The change or transfer of management is allowed without permission of Board.
- (4) The institute shall not be closed without previous permission of the Board.

17. The assumption of Mc Gregor's Theories of Motivation that, "Individuals who lack ambition, dislike responsibility and prefer to be fed" is related to \_\_\_\_\_.

- |                         |                       |
|-------------------------|-----------------------|
| (1) Theory X            | (2) Theory Y          |
| (3) Both theory X and Y | (4) None of the above |

18. "Granting of Affiliation to the Diploma institutions in the Maharashtra State."

The above function belongs to which organisation out of the followings ?

- (1) Different Universities in the State.
- (2) Director of Technical Education.
- (3) Joint Director of Technical Education Regional Office of concern office.
- (4) Maharashtra State Board of Technical Education.

19. About two bid tender system read the following statements :

- (a) Two separate envelopes are used for Technical bid and Commercial bid.
- (b) Both the envelopes are open at a time.
- (c) The Technical bid is open first and Commercial bid is open afterward.
- (d) The Commercial bid is open first and the Technical bid is open afterward.

Which statements are correct ?

- |              |                 |                 |                 |
|--------------|-----------------|-----------------|-----------------|
| (1) Only (a) | (2) (a) and (b) | (3) (a) and (c) | (4) (a) and (d) |
|--------------|-----------------|-----------------|-----------------|

कच्चा कामासाठी जागा/SPACE FOR ROUGH WORK



20. In the State of Maharashtra regarding establishment of Private Polytechnics and other Private Engineering Colleges (professional colleges), read the following statements and choose correct statement :
- (1) Hon. CM Vasantdada Patil resolved in the year 1983
  - (2) Hon. CM Yashwantrao Chavan resolved in the year 1960
  - (3) Hon. CM Sharad Pawar resolved in the year 1980
  - (4) Hon. CM Shankarrao Chavan resolved in the year 1986
- 
21. Technical Education Quality Improvement Programme was envisaged for transformation of Technical Education System with World Bank assistance as a long-term programme to be implemented in \_\_\_\_\_.
- (1) Five phase
  - (2) Four phase
  - (3) Three phase
  - (4) Two phase
- 
22. The financial power delegated to Principal, Government Polytechnics for Procurement of Books for Library is :
- (1) Full power
  - (2) ₹ 2.00 Lakh per year
  - (3) ₹ 5.00 Lakh per year
  - (4) ₹ 10.00 Lakh per year
- 
23. Read the following terms :  
facts, concept, principle, procedure, problem solving.  
Choose the correct title for the group of above terms :
- (1) Types of objectives
  - (2) Strategies for learning
  - (3) Organise body of knowledge
  - (4) Ways of getting knowledge
- 
24. The appointing authority for Support Staff (Class III and Class IV) of Polytechnic is \_\_\_\_\_.
- (1) Maharashtra Public Service Commission
  - (2) Director, Technical Education
  - (3) Director, M.S.B.T.E.
  - (4) Joint Director of respective region (Technical Education)
- 

कच्चा कामासाठी जागा/SPACE FOR ROUGH WORK

P.T.O.

25. Non-plan grants means \_\_\_\_\_.
- (1) Grants received without planning
  - (2) Grants received to the schemes coming under Non-plan
  - (3) Grants received to newly established Polytechnics in first year
  - (4) None of the above
- 
26. As per AICTE approval process handbook, the State Government/Affiliating Board shall forward their views to AICTE on the application for approval of new Polytechnic within a period of \_\_\_\_\_ from the date of receipt of application.
- (1) 30 days
  - (2) 15 days
  - (3) 45 days
  - (4) 25 days
- 
27. The recommendation of AICTE high-power committee headed by Prof. D. Swaminadhan, on mobilization of resources for Technical Education include :
- (1) Setting up an Educational Development Bank of India and to set-up National Loan Scholarship Scheme
  - (2) Levy of educational cess on industries
  - (3) Tuition fee to be revised to cover at least 20% of the annual recurring cost per student
  - (4) All the above
- 
28. Institute having at least 50% of eligible courses accredited by NBA shall be eligible for approval from the Competent Authority for the period of \_\_\_\_\_.
- (1) 5 years
  - (2) 2 years
  - (3) 3 years
  - (4) 10 years
- 
29. Who is the Chairman of the Selection Committee, as per MSBTE's faculty approval procedure ?
- (1) Joint Director of Technical Education of the concerned region
  - (2) Chairman/Vice Chairman/Representative of Governing Body of the Institute
  - (3) Director, MSBTE
  - (4) Representative of MSBTE not below rank of Principal
- 

कच्चा कामासाठी जागा/SPACE FOR ROUGH WORK

30. What constitutes the digital library ?

- (1) Books and Journals
- (2) Online Journals
- (3) e-books, e-journals, educational CD's and DVD
- (4) All of the above

31. Training policies for faculty and staff depend on Training Need Analysis (TNA) which involves

- (1) monitoring current performance through observation, interviews and feedback
- (2) anticipating future shortfalls
- (3) identifying the type and level of training required and analysing how this can be provided
- (4) All of the above

32. In case of Diploma admission, the "TFWS" scheme is approved and made mandatory by which organisation out of following ?

- (1) Director of Technical Education M.S.
- (2) Higher and Technical Education Deptt.
- (3) Maharashtra State Board of Technical Education.
- (4) All India Council for Technical Education.

33. Read the following functions of Polytechnic and the classification of functions within the Polytechnic :

Functions	Classification
(a) Appointment of faculty and staff	(i) Financial
(b) Sanction of loan to faculty	(ii) Academic
(c) Deriving Annual Plans from long-term perspectives	(iii) Administrative
(d) Starting career counselling cell	(iv) Managerial

Choose the correct combination :

- |     |      |       |       |       |
|-----|------|-------|-------|-------|
|     | (a)  | (b)   | (c)   | (d)   |
| (1) | (i)  | (ii)  | (iii) | (iv)  |
| (2) | (ii) | (iv)  | (i)   | (iii) |
| (3) | (ii) | (i)   | (iv)  | (iii) |
| (4) | (iv) | (iii) | (ii)  | (i)   |

कच्चा कामासाठी जागा/SPACE FOR ROUGH WORK

P.T.O.

34. Which of the following statements are true for Strategic Planning ?

- (a) Strategic Planning is Situational
- (b) Strategic Planning is Proactive
- (c) Strategic Planning is Research based
- (d) Strategic Planning is Customer oriented

Answer options :

- (1) (a) and (b)
- (2) (b), (c) and (d)
- (3) (a), (b) and (d)
- (4) (a), (b), (c) and (d)

35. The difference between mission and vision statement of institute can be described by \_\_\_\_\_.

- (1) Vision statement focuses on PRESENT while mission statement concentrates on FUTURE
- (2) Vision statement outlines WHERE you want to be and mission talks about HOW will you get to where you want to be
- (3) Vision lists broad goals of organisation while mission lists where you see yourself from now
- (4) None of the above

36. The Government office can purchase the single item through Rate Contract approved by DGS & D costing upto certain limit only in a year.

Choose the correct limit only :

- (1) ₹ 1,00,000
- (2) ₹ 2,00,000
- (3) ₹ 3,00,000
- (4) ₹ 5,00,000

37. What should be the first action of the Principal when he finds short cash in cash box as per cash book ?

- (1) Recover the cash
- (2) Suspend the cashier
- (3) Hand over the cashier to police
- (4) None of the above

कच्चा कामासाठी जागा/SPACE FOR ROUGH WORK

38. Regarding maternity leave read following statements :

- (a) Maximum maternity leave is 180 days only and it is not deducted from the balance earned leave.
- (b) Maximum maternity leave is 120 days only and it is deducted from the balance earned leave.
- (c) The leave is treated as medical leave and only half pay is entitled.
- (d) The leave is full pay leave.

Which statements are correct ?

- (1) (a) and (c)      (2) (a) and (d)      (3) (b) and (c)      (4) (b) and (d)

39. The National Policies of Education of 1968 and 1986/92 had recommended \_\_\_\_\_ % of GDP as the norm for the national outlay on education.

- (1) 4      (2) 5      (3) 6      (4) 7

40. Which of the following are mandate of NEERI ?

- (a) To conduct R & D studies in Environmental Science and Engineering
- (b) To render assistance to industries, local bodies in solving problems of environmental pollution through S & T intervention
- (c) To interact and collaborate with academic and research institutions on Environmental Science and Engineering for mutual benefits
- (d) To participate in CSIR thrust area and national mission projects

Answer options :

- (1) (a), (b) and (c)      (2) (b), (c) and (d)  
 (3) (a), (b) and (d)      (4) (a), (b), (c) and (d)

41. Who is responsible for maintenance of building and equipments of the institute ?

- (1) Institute for both
- (2) PWD and institute respectively
- (3) PWD for both
- (4) None of the above

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42. Classify the following terms into :

Terms	
(a) External customers	(i) Parents/students
(b) Internal customers	(ii) Faculty
(c) Competitors	(iii) Open Universities
(d) Management	(iv) Director of Technical Education

Choose the **correct** combination :

- |     |      |       |       |       |
|-----|------|-------|-------|-------|
|     | (a)  | (b)   | (c)   | (d)   |
| (1) | (i)  | (ii)  | (iii) | (iv)  |
| (2) | (iv) | (iii) | (ii)  | (i)   |
| (3) | (i)  | (iii) | (iv)  | (ii)  |
| (4) | (iv) | (ii)  | (i)   | (iii) |

43. What is the EMD specified by the Government of Maharashtra for purchases of items with estimated cost above ₹ 10 Lakhs and upto ₹ 50 Lakhs through e-tendering ?

- (1) ₹ 10,000                      (2) ₹ 25,000                      (3) ₹ 50,000                      (4) ₹ 1,00,000

44. A person shall not be qualified for being engaged as an apprentice to undergo apprenticeship training in any designated trade unless he \_\_\_\_\_.

- (1) is not less than sixteen years of age  
 (2) is not less than fourteen years of age  
 (3) is not less than eighteen years of age  
 (4) is not less than twenty one years of age

45. As per performance appraisal report of Class A Government Gazetted officers, the overall gradation 4 and above but less than 6 would be treated as \_\_\_\_\_.

- (1) B +ve                      (2) B                      (3) C +ve                      (4) A

46. Which of the following is most significant resources available in an Institution ?

- (1) Physical Resources                      (2) Human Resources  
 (3) Financial Resources                      (4) Teaching - Learning Resources

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47. Which of the following does **not** come under M.C.S.R. ?
- (1) Leave (2) Pension  
(3) Provident fund (4) None of the above
- 
48. On the recommendation of Engineering Personnel Committee set up by Planning Commission in 1955, how many Regional Engineering Colleges were set up in early sixties as joint and co-operative venture of the Central and State Government ?
- (1) 4 (2) 6 (3) 8 (4) 10
- 
49. In the context of the six sigma quality management technique, DMADV stands for :
- (1) Define, Measure, Apportion, Design, Verify  
(2) Define, Measure, Analyse, Design, Verify  
(3) Define, Monitor, Analyse, Design, Verify  
(4) Define, Measure, Analyse, Designate, Verify
- 
50. Who was the 'Competent Authority' for admission to Professional Diploma courses during the academic year 2018-19 ?
- (1) Director, Technical Education, Maharashtra State  
(2) Jt. Director, Technical Education, Maharashtra State  
(3) Director, MSBTE  
(4) Commissioner of State CET
- 
51. Who is the Vice President of Governing Council of MSBTE ?
- (1) The Minister of Higher and Technical Education, Maharashtra State  
(2) The Minister of State for Higher and Technical Education, Maharashtra State  
(3) The Secretary, Higher and Technical Education, Maharashtra State  
(4) The Director of Technical Education, Maharashtra State
- 
52. Which of the following refers to "What the organisation wants to do i.e., organizational purpose" ?
- (1) Vision (2) Mandate (3) Mission (4) Goal
- 

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53. The Principal of Government Polytechnic is reported to :

- (1) Joint Director of Regional Office
- (2) Director, MSBTE
- (3) Deputy Secretary, Higher and Technical Education
- (4) Director of Technical Education

54. Which one of the following styles is not termed as leadership style ?

- (1) Autocratic
- (2) Democratic
- (3) Bureaucratic
- (4) None of the above

55. The word "Pedagogy" is the study of :

- (1) Education
- (2) Learning process
- (3) Teaching methods
- (4) Guiding students

56. Which of the following provision is correct for 'Special Backward Class' candidates in the admission process of Polytechnics ?

- (1) The extent of reservation is 2% within OBC.
- (2) Maximum 2% of total available seats under Competent Authority.
- (3) Maximum 2% of unclaimed seats in reserved category during round-II of allotment and total reservation not exceeding 50%.
- (4) Maximum 2% of seats within SC, ST and OBC.

57. What is the amount of grant sanction under the Faculty Development Programme Scheme of AICTE to institutions for two week induction training to teachers employed in AICTE approved Technical Institutions ?

- (1) ₹ 3 - 4 Lakh
- (2) ₹ 4 - 5 Lakh
- (3) ₹ 5 - 7 Lakh
- (4) ₹ 5 - 6 Lakh

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58. Let us read the types of needs of human being as suggested by "Abraham Maslow" and the examples of needs.

Match both the terms.

Types of Needs	Examples of Needs
(a) Biological and Physiological needs	(i) Status
(b) Safety needs	(ii) Personal growth and fulfillment
(c) Belongingness and love needs	(iii) Beauty
(d) Esteem needs	(iv) Food
(e) Cognitive needs	(v) Security
(f) Aesthetic needs	(vi) Affection
(g) Self actualisation	(vii) Knowledge

Which is correct match ?

- |     |       |       |       |      |       |       |       |
|-----|-------|-------|-------|------|-------|-------|-------|
|     | (a)   | (b)   | (c)   | (d)  | (e)   | (f)   | (g)   |
| (1) | (i)   | (ii)  | (iii) | (iv) | (v)   | (vi)  | (vii) |
| (2) | (iv)  | (v)   | (vi)  | (i)  | (vii) | (iii) | (ii)  |
| (3) | (iii) | (iv)  | (v)   | (vi) | (vii) | (i)   | (ii)  |
| (4) | (ii)  | (iii) | (iv)  | (v)  | (vi)  | (vii) | (i)   |

59. The problem solving process is based upon PDCA cycle. The alphabet 'C' stands for \_\_\_\_\_.

- |             |                       |
|-------------|-----------------------|
| (1) Correct | (2) Coordinate        |
| (3) Check   | (4) None of the above |

60. As per State Government Policy for "Zero pendency and daily disposal", the Head of the Office has to take every \_\_\_\_\_ of the work done by employees.

- |                            |                    |
|----------------------------|--------------------|
| (1) Every five days review | (2) Weekly review  |
| (3) 15 days review         | (4) Monthly review |

61. In case of reporting the performance of Government officer or employee, the reporting officer have to justify in writing if the reporting officer awards the grade as :

- |         |       |         |       |
|---------|-------|---------|-------|
| (a) A + | (b) A | (c) B + | (d) B |
|---------|-------|---------|-------|

Choose the correct answer :

- |                           |                      |
|---------------------------|----------------------|
| (1) (a), (b), (c) and (d) | (2) (b), (c) and (d) |
| (3) (c) and (d)           | (4) (a)              |

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62. The three key elements of manpower planning for the industries are \_\_\_\_\_.  
(1) Forecasting the demand, performing supply analysis and balancing supply and demand consideration  
(2) Planning for human resource, developing human resource and coordinating development  
(3) Plan, Do and Act on the human resource development  
(4) None of the above
- 
63. Which one of the following is the responsibility of National Institute of Technical Teachers Training (NITTR) ?  
(1) To arrange practical training of teachers in Industries  
(2) Accreditation of Polytechnics  
(3) To carry out technical manpower planning for the country/state  
(4) None of the above
- 
64. The Central Advisory Board of Education (CABE) is the highest advisory body to advice the \_\_\_\_\_ in the field of Education.  
(1) Central and State Government  
(2) Central Government  
(3) State Government and Union Territories  
(4) Institute of National Importance
- 
65. International Literacy Day is celebrated every year on which of the following day to highlight the importance of literacy in life ?  
(1) 5<sup>th</sup> September (2) 8<sup>th</sup> September (3) 11<sup>th</sup> November (4) 14<sup>th</sup> November
- 
66. Characteristics of a good assessment system are :  
(a) Validity (b) Reliability (c) Objectivity (d) Usability  
Answer Options :  
(1) (a) only (2) (c) and (b)  
(3) (a), (b) and (c) (4) (a), (b), (c) and (d)
- 
67. Cumulative Grade Point Average (CGPA) is :  
(1) Ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester  
(2) Ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all the courses in all semesters  
(3) Ratio of total grade points secured by a student in various courses in all semesters and the sum of total credits of all the courses in all semesters  
(4) Average of grade point and credit point
- 

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68. As per MSBTE guidelines total weightage of marks for

- (i) Governance, Policy making and infrastructure
  - (ii) Administrative
  - (iii) Academic and
  - (iv) Socio-Economic criteria for Engineering and Pharmacy Diploma Programmes is :
- |                        |                        |
|------------------------|------------------------|
| (1) 38 - 20 - 175 - 17 | (2) 47 - 11 - 185 - 7  |
| (3) 50 - 10 - 120 - 20 | (4) 37 - 21 - 180 - 12 |

69. Recapitulation has its purpose :

- (1) of repetition
- (2) of reading again
- (3) to rewrite again
- (4) to highlight important points of lesson

70. The type of teaching method in which student tries to discover the concepts, principles and procedures on his/her own is called as :

- |                             |                       |
|-----------------------------|-----------------------|
| (1) Deductive Method        | (2) Inductive Method  |
| (3) Teacher Centered method | (4) None of the above |

71. Teaching method where teacher interacts with either an individual student or small group of students to guide their work, to help them to solve their problems, to clear their doubts and difficulties is :

- |                |                       |
|----------------|-----------------------|
| (1) Tutorials  | (2) Seminar           |
| (3) Case Study | (4) None of the above |

72. The world bank assisted TEQIP-II project sub-component 1.2 is related to :

- (1) Strengthening Institutions to improve learning outcomes and employability of graduates
- (2) Scaling up of post graduate education and demand driven research and development and innovation
- (3) Faculty development for effective teaching
- (4) Establishing centres of excellence

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73. Program outcomes of the students define :

- (1) how best the faculty is
- (2) how best institution is able to perform
- (3) how best students are able to perform
- (4) how best education is

74. A student has been awarded the credits and grade points as below :

Course	Credit	Grade Point
Course 1	3	8
Course 2	4	7
Course 3	3	6
Course 4	3	10
Course 5	3	5
Course 6	4	6

What will be SGPA ?

- (1) 6.25                      (2) 6.95                      (3) 8.15                      (4) 7.25

75. The main purpose of academic monitoring is to assess :

- (1) Teacher's growth
- (2) Students extra curricular activities
- (3) Number of patents filed by institution
- (4) Overall performance of the institution

76. Graduate attributes for degree engineering programs as identified by Washington Accord are :

- (1) Ten in number                      (2) Eleven in number
- (3) Twelve in number                      (4) Not specified in number

77. Consider the following statements regarding specification table :

- (1) A specification table is a blueprint for question paper design
- (2) The specification table consists of chapters/topics and levels of cognitive process dimensions
- (3) Specification table should consider objectives to be achieved and total marks for the paper
- (4) All of the above

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78. Formative assessment has its purpose :

- (1) to provide continuous feedback
- (2) to evaluate students' abilities holistically
- (3) to decide competency level achieved after the learning of subject
- (4) to enable students to pass examination easily

79. The major factors that affects the choice of teaching strategy and methods are :

- (a) Learning outcomes
- (b) Topics to be taught, size of class
- (c) Time available, principles of learning
- (d) Other factors i.e., teaching aids, instructional media, equipment, consumables, funds and other teaching facilities available

Which of the statements given above are correct ?

- |                      |                           |
|----------------------|---------------------------|
| (1) (a), (b) and (d) | (2) (a), (b) and (c)      |
| (3) (a), (c) and (d) | (4) (a), (b), (c) and (d) |

80. As per NBA, for designing the Curriculum Graduate attributes to be considered are :

- (1) Engineering Knowledge, Modern tool usage, Ethics, Problem analysis
- (2) Design/development of the solution, Engineer and Society, Communication, Individual and Team-work
- (3) Conduct investigation of complex problems, Environment and Sustainability, Project management and Finance, Life long learning
- (4) All of the above

81. According to Bloom's revised taxonomy, cognitive process dimensions hierarchy is :

- (1) Remember - Understand - Analyse - Apply - Evaluate - Create
- (2) Remember - Understand - Apply - Analyse - Evaluate - Create
- (3) Remember - Understand - Apply - Analyse - Create - Evaluate
- (4) Understand - Remember - Apply - Analyse - Create - Evaluate

82. The various purposes of students assessment in engineering education system are :

- (a) Diagnosis and remedial measures
- (b) Feedback and motivation of students
- (c) Certification

Which of the above statements are correct ?

- |                 |                 |                 |                      |
|-----------------|-----------------|-----------------|----------------------|
| (1) (a) and (b) | (2) (a) and (c) | (3) (b) and (c) | (4) All of the above |
|-----------------|-----------------|-----------------|----------------------|

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83. Consider the following statements regarding syllabus and curriculum :

- (a) Syllabus is teacher centered
- (b) Curriculum is student centered
- (c) In syllabus there are no mention of depth and breadth of topics to be covered
- (d) Curriculum specifies the scope of topics to be taught and learnt by student

Which of the statements given above are **correct** ?

- (1) (a) and (b)
- (2) (b) and (c)
- (3) (c) and (d)
- (4) (a), (b), (c) and (d)

84. Interviewer can have deeper understanding about the respondent and have maximum opportunity to interact in a free atmosphere through :

- (1) informal interview
- (2) well designed questionnaire
- (3) formal interview
- (4) written examination of small sized multiple questions

85. Consider the following statements regarding assessment tools in outcome based Education :

- (a) Course evaluation, continuous assessment test are direct method of assessment tool.
- (b) Alumni survey, employer survey are indirect method of assessment tool.
- (c) Project evaluation is indirect method of assessment tool.
- (d) Student exit survey is indirect method of assessment tool.

Which of the statements given above are **correct** ?

- (1) (a), (b) and (c)
- (2) (b), (c) and (d)
- (3) (a), (b) and (d)
- (4) (a), (b), (c) and (d)

86. For outcome based curriculum design approach, the sequence followed is as :

- (1) Vision-Mission-PEO's-PO's-CO's
- (2) Vision-Mission-PEO's-CO's-PO's
- (3) Vision-Mission-PO's-CO's
- (4) Mission-Vision-CO's-PO's-Course Objectives

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87. Domains of Learning for Assessment are :

- (1) Cognitive domain - Knowledge development
- (2) Psychomotor domain - Skill development
- (3) Affective domain - Attitude development
- (4) All of the above

88. National Assessment and Accreditation Council (NAAC) was set up by University Grant Commission (UGC) for institutional accreditation through a combination of internal and external quality assessment in :

- |          |          |          |          |
|----------|----------|----------|----------|
| (1) 1995 | (2) 1992 | (3) 1994 | (4) 1993 |
|----------|----------|----------|----------|

89. The National Skills Qualification Framework (NSQF) organises qualifications according to the series of knowledge, skills and aptitude.

Match the following :

- |             |                             |
|-------------|-----------------------------|
| (a) Level 1 | (i) Semi-skilled worker     |
| (b) Level 3 | (ii) First level management |
| (c) Level 5 | (iii) Supervisor            |
| (d) Level 7 | (iv) Unskilled worker       |

Choose the correct combination :

- |     |       |       |       |      |
|-----|-------|-------|-------|------|
|     | (a)   | (b)   | (c)   | (d)  |
| (1) | (ii)  | (iii) | (i)   | (iv) |
| (2) | (iii) | (ii)  | (i)   | (iv) |
| (3) | (iv)  | (i)   | (iii) | (ii) |
| (4) | (i)   | (iii) | (ii)  | (iv) |

90. In order to make communication more effective :

- (1) gestures play an important role
- (2) gestures are not desirable
- (3) gestures need be avoided
- (4) gestures are not required

91. Learning is an individual activity that :

- |                                 |                                |
|---------------------------------|--------------------------------|
| (1) is not dependent on teacher | (2) is dependent on teacher    |
| (3) is dependent on subject     | (4) is dependent on colleagues |

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92. The method used to evaluate curriculum is :

- |                           |                          |
|---------------------------|--------------------------|
| (1) Formative Evaluation  | (2) Summative Evaluation |
| (3) Diagnostic Evaluation | (4) All of the above     |

---

93. Number of credits more than defined for the program shall result into :

- (1) improvement in quality of learning
- (2) perfect quality of learning anyway
- (3) reduction in quality of learning
- (4) value addition

---

94. The essential qualifier for any diploma engineering program for the accreditation from NBA is :

- (a) Student faculty ratio at least equal to 1 : 25.
- (b) Two batches must pass out.
- (c) Average admission over previous three years including current academic year should be more than or equal to 50%.
- (d) The department should have excellent grade in academic monitoring.

**Answer options :**

- (1) All of the above (2) (a) and (b) (3) (a), (b) and (c) (4) (b), (c) and (d)

---

95. National Assessment and Accreditation Council (NAAC) decides :

- (1) Quality Status of Institution
- (2) Quality Status of Department
- (3) Quality Status of Research Institute
- (4) Quality Status of Development

---

96. While defining educational objectives for program, program Co-ordinator :

- (1) need to consider opinions of employers alumni, faculty, industry, graduate student etc.
- (2) need to consider directions of UGC and Government only.
- (3) need to consider opinions of students only.
- (4) only need to consider what faculty suggests.

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**कच्चा कामासाठी जागा/SPACE FOR ROUGH WORK**



97. Diagnostic assessment is related :

- (1) towards holistic development of students
- (2) to determine the learning difficulties during instruction
- (3) to end semester performance
- (4) to continuous evaluation

98. The assessment of practical skills is done by different assessment techniques such as :

- (a) Observation
- (b) Oral test/viva-voce
- (c) Assessment of records

Which of the statements given above are correct ?

- (1) (a) and (b)
- (2) (a) and (c)
- (3) (b) and (c)
- (4) (a), (b) and (c)

99. University-Industry-Science Partnership (UNISPAR) Programme was launched by :

- (1) Confederation of Indian Industries (CII)
- (2) Board Of Apprenticeship Training (BOAT)
- (3) United Nations Educational, Scientific and Cultural Organisation (UNESCO)
- (4) None of the above

100. Information and Communication Technology (ICT) is used in education :

- (1) for providing comfort to teachers
- (2) for entertainment of students
- (3) enable learning without paying attention
- (4) to handle and process information and their applications

- o o o -

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### सूचना -- ( पृष्ठ 1 वरून पुढे.... )

- (8) प्रश्नपुस्तिकेमध्ये विहित केलेल्या विशिष्ट जागीच कच्चे काम (रफ वर्क) करावे. प्रश्नपुस्तिकेव्यतिरिक्त उत्तरपत्रिकेवर वा इतर कागदावर कच्चे काम केल्यास ते कॉपी करण्याच्या उद्देशाने केले आहे, असे मानले जाईल व त्यानुसार उमेदवारावर शासनाने जारी केलेल्या “परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचे अधिनियम-82” यातील तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.
- (9) सदर प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपल्यानंतर उमेदवाराला ही प्रश्नपुस्तिका स्वतःबरोबर परीक्षाकक्षाबाहेर घेऊन जाण्यास परवानगी आहे. मात्र परीक्षाकक्षाबाहेर जाण्यापूर्वी उमेदवाराने आपल्या उत्तरपत्रिकेचा भाग-1 समवेक्षकाकडे न विसरता परत करणे आवश्यक आहे.

### नमुना प्रश्न

Pick out the correct word to fill in the blank :

Q.No. 201. I congratulate you \_\_\_\_\_ your grand success.

- |         |           |
|---------|-----------|
| (1) for | (2) at    |
| (3) on  | (4) about |

ह्या प्रश्नाचे योग्य उत्तर “(3) on” असे आहे. त्यामुळे या प्रश्नाचे उत्तर “(3)” होईल. यास्तव खालीलप्रमाणे प्रश्न क्र. 201 समोरील उत्तर-क्रमांक “(3)” हे वर्तुळ पूर्णपणे छायांकित करून दाखविणे आवश्यक आहे.

प्र. क्र. 201. ① ② ● ④

अशा पद्धतीने प्रस्तुत प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाचा तुमचा उत्तर-क्रमांक हा तुम्हाला स्वतंत्ररीत्या पुरविलेल्या उत्तरपत्रिकेवरील त्या त्या प्रश्नक्रमांकासमोरील संबंधित वर्तुळ पूर्णपणे छायांकित करून दाखवावा. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.

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