Question Booklet Series: A
Booklet Code No.: 832561

DO NOT OPEN THIS BOOKLET UNTIL TOLD TO DO SO

Time Allowed: 90 Minutes
Total No. Questions: 120
Code- D17AX6MECHS02 (P-I)

Roll No.: __________________________
OMR Answer Sheet No.: _______________________

Name of the Candidate (in capital letters): _______________________________________________________

Candidate's Signature: __________________________________________
Invigilator's Signature: __________________________________________

IMPORTANT:-- Read the following instructions carefully. Do not mark answers on the question booklet, otherwise you may be debarred from the selection process.

1. Before commencing to answer, check that the Question Booklet has 120 questions. Each Question Booklet will be in different series (combination of booklet code no. and series). You must write correct Booklet Code No. and Question Booklet Series on your OMR Answer Sheet. Further check that there is no misprinting, overprinting and/or any other shortcoming in it. If there is any shortcoming in the question booklet, intimate the same to your room invigilator and take a fresh question booklet. No complaint in this regard shall be entertained at any later stage.

IMPORTANT NOTE: The OMR Answer Sheet will be evaluated with a combination of question booklet series and booklet code no. hence you must write correct question booklet series and booklet code no. Any mistake in filling any of them will lead to invalidation of your OMR Answer Sheet. Also in case of non-filling of question booklet series and booklet code no. the OMR Answer Sheet will not be evaluated and its sole responsibility lies on the candidate.

2. There shall be negative marking. 1/3 mark will be deducted for wrong answer. Each question carries equal mark. Also refer OMR Sheet for detailed instruction.

3. Ask invigilator to sign on your admit card. If the same is not got signed by you, your candidature shall be liable to be rejected.

4. This is an objective type test in which each objective question is followed by four responses serialled (1) to (4). Your task is to choose the correct/best response and mark your response in the OMR Answer Sheet only as per the instructions given and NOT in the Question Booklet.

5. Use Blue/Black Ball Point Pen for all your work on the OMR Answer Sheet. The ovals on the OMR Answer Sheet are to be completely filled by Blue/Black Ball Point Pen only. ANSWERS ONCE GIVEN CAN NOT BE CHANGED.

6. DO NOT scribble or do rough work or make any stray marks on the Answer Sheet. DO NOT wrinkle or fold or staple it.

7. Use of Calculators, Slide rules, Mobiles, calculator watches or any such devices and any other study/reference material is NOT allowed inside the examination hall.

8. Rough Work is to be done in the blank space provided in the Question Booklet, **not on the OMR Answer Sheet.** No other paper will be allowed/provided for rough work.

9. Return the complete Question Booklet and OMR Answer Sheet to the invigilator on completion of the test. Do not take this Question Booklet or any part thereof or OMR Answer Sheet outside the examination room. **Doing so is a punishable offence.**

10. Take care that you mark only one answer for each question. If more than one answer is given by you for any question, the same will not be evaluated. **Cutting/overwriting the answers are not allowed.** Further question paper is bilingual (Hindi/English). In case of any variation in Hindi version, English version will be taken as final for evaluation purposes.

हिन्दी में अनुवाद अनिम पृष्ठ (Back cover) पर दिया गया है।
APTITUDE

DIRECTIONS: (Question nos. 1 & 2) The questions are based on the following information.

Out of the total 390 students studying in a college of Arts and Science, boys and girls are in the ratio of 7:6 respectively and the number of students studying Arts and Science are in the ratio of 3:7 respectively. The boys and girls studying Arts are in the ratio of 4:5 respectively.

1. How many boys are studying Science?
   (1) 155  (2) 156  (3) 158  (4) None of these

2. What is the ratio between the girls studying Arts and Science respectively?
   (1) 23:36  (2) 13:23  (3) 8:13  (4) None of these

3. “SAWEN” is a regional international government body:
   (1) In combating wildlife crime in the region
   (2) In combating regional terrorism
   (3) For health & welfare programs
   (4) For poverty alleviation in region

4. World’s first white tiger safari was recently opened in the state of:
   (1) Gujarat  (2) Maharashtra  (3) Madhya Pradesh  (4) Assam

5. India’s first indigenous rotavirus vaccine named rotavac:
   (1) Is to combat infant mortality due to jaundice
   (2) Is to combat infant mortality due to diarrhoea
   (3) Is to combat adult Japanese encephalitis
   (4) Is inactivated polio vaccine

6. Who was recently conferred with Skoch Lifetime Achievement award?
   (1) Sushma Swaraj  (2) Suresh Manohar Parrikar
   (3) Suresh Prabhu  (4) M. Venkaiah Naidu

7. 2015–2016 Irani cup cricket title was won by?
   (1) Rest of India  (2) Mumbai  (3) Delhi  (4) Karnataka

DIRECTIONS: In the following question is followed by two statements I and II. Select the choice as follows.

A. If I alone is sufficient to answer the question
B. If II alone is sufficient to answer the question
C. If I and II are both required to answer the question
D. If both I and II are insufficient to answer the question and more data is required

8. Can Mohan be considered a successful mountaineer:
   I. Mohan has taken part in seven mountaineering expeditions in the last ten years
   II. The norm for a mountaineer to be considered successful is being a member of expeditions 4 to 5 times in fifteen years
   (1) A  (2) B  (3) C  (4) D

9. Which statement(s) is (are) correct?
   I. Sushma Swaraj
   II. Suresh Prabhu
   III. M. Venkaiah Naidu
   (1) I  (2) II  (3) III  (4) All

10. Which of the following statements can be inferred?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither

11. Which statement(s) is (are) correct?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither

12. Which statement(s) is (are) correct?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither

13. Which statement(s) is (are) correct?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither

14. Which statement(s) is (are) correct?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither

15. Which statement(s) is (are) correct?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither

16. Which statement(s) is (are) correct?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither

17. Which statement(s) is (are) correct?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither

18. Which statement(s) is (are) correct?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither

19. Which statement(s) is (are) correct?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither

20. Which statement(s) is (are) correct?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither

21. Which statement(s) is (are) correct?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither

22. Which statement(s) is (are) correct?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither

23. Which statement(s) is (are) correct?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither

24. Which statement(s) is (are) correct?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither

25. Which statement(s) is (are) correct?
    I. A white tiger safari was recently opened in Gujarat.
    II. The number of students studying Arts and Science are in the ratio of 3:7 respectively.
    (1) I only  (2) II only  (3) Both  (4) Neither
DIRECTIONS: The following are the statistics of some matches of a cricket team bowlers and the wickets taken. A, B, C & D are the fast bowlers of the team.

9. If the inter-se wicket taking ratio between bowler groups remains the same and the run out are limited to 2 only, how many more wickets would spinners take, based on the original presumption that spinners took 15 wickets earlier:
   (1) 1  (2) 2  (3) 3  (4) 0

10. Which actor has been selected for the prestigious 47th Dadasaheb Phalke Award for the year 2015?
   (1) Dilip Kumar  (2) Amitabh Bachchan  (3) Satrughan Sinha  (4) Manoj Kumar

11. Union Government recently gave nod for issuance of UDAY bonds to four states of India initially. One of the states is not included in this:
   (1) Uttar Pradesh  (2) Bihar  (3) Rajasthan  (4) Chattishgarh

12. Which more suitable for crops like cashew nut?
   (1) Red laterite soil  (2) Black soil  (3) Alluvial soil  (4) Arid soil

13. Two equal glasses filled with alcohol & water in the proportion 2:1 and 3:2 are emptied into a third glass. The proportion of alcohol and water in the third glass will be?
   (1) 13:17  (2) 19:7  (3) 13:11  (4) 19:11

DIRECTIONS: Study the information given in this question to answer them.

<table>
<thead>
<tr>
<th>Constituency</th>
<th>Number of voters in thousands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registered</td>
<td>Voted</td>
</tr>
<tr>
<td>I</td>
<td>180</td>
</tr>
<tr>
<td>II</td>
<td>250</td>
</tr>
<tr>
<td>III</td>
<td>290</td>
</tr>
<tr>
<td>IV</td>
<td>320</td>
</tr>
<tr>
<td>V</td>
<td>200</td>
</tr>
</tbody>
</table>

14. Which constituency had the lowest percentage of polling:
   (1) I  (2) V  (3) III  (4) IV

15. The least number of complete years, in which a sum of money put out at 20% compound interest compounded annually will be more than double, is:
   (1) 3  (2) 4  (3) 5  (4) 6
DIRECTIONS: (Question No. 16 to 20) Answer the questions on the basis of information given below?

A tournament is organized among five teams Ahmadabad, Bombay, Calcutta, Delhi and England. This is a round robin league tournament where each team has to play every other team exactly once. For any team, three points are awarded for a win, one point for a draw and no point for a loss.

The following table is incomplete even after the end of the tournament.

<table>
<thead>
<tr>
<th>TEAM</th>
<th>W</th>
<th>D</th>
<th>L</th>
<th>P (Total Point)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ahmadabad</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bombay</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcutta</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delhi</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>England</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Where
W = Number of matches won
L = Number of matches lost
D = Number of matches drawn
P = Total Points

16. Which team/s did Ahmadabad beat?
   (1) Only Delhi and England
   (2) Only Delhi
   (3) Only Bombay and Calcutta
   (4) Only Bombay and England

17. Which team/s drew the match with Bombay?
   (1) Only Ahmadabad
   (2) Only Calcutta and Delhi
   (3) Only Delhi and England
   (4) Only England

18. Which team had the highest number of draw?
   (1) Bombay
   (2) Ahmadabad
   (3) Calcutta
   (4) Delhi

19. Which of the following team/s did team England beat?
   (1) Only Delhi
   (2) Only Bombay and Calcutta
   (3) Only Ahmadabad and Delhi
   (4) Only Ahmadabad and Bombay

20. Team England drew match with?
    (1) Only Calcutta and Delhi
    (2) Only Ahmadabad
    (3) Only Bombay
    (4) Only Bombay and Calcutta

21. S is the mid-point of the side QR of the triangle PQR and T is the mid point of QS. If O is the mid point of PT, then area of \( \Delta QOT \) is equal to:
    (1) 1/2 area of \( \Delta PQR \)
    (2) 1/4 area of \( \Delta PQR \)
    (3) 1/6 area of \( \Delta PQR \)
    (4) 1/8 area of \( \Delta PQR \)

21. स is the mid-point of the side QR of the triangle PQR and T is the mid point of QS. If O is the mid point of PT, then area of \( \Delta QOT \) is equal to:
    (1) 1/2 area of \( \Delta PQR \)
    (2) 1/4 area of \( \Delta PQR \)
    (3) 1/6 area of \( \Delta PQR \)
    (4) 1/8 area of \( \Delta PQR \)
22. The positive square root of \( \sqrt{48} - \sqrt{45} \) is:

(1) \( \frac{\sqrt{3}}{2} (\sqrt{5} - \sqrt{3}) \)
(2) \( \frac{\sqrt{3}}{2} (\sqrt{5} + \sqrt{3}) \)
(3) \( \frac{\sqrt{3}}{3} (\sqrt{5} - \sqrt{3}) \)
(4) \( \frac{\sqrt{3}}{3} (\sqrt{5} + \sqrt{3}) \)

23. Which of the following was used as a chemical weapon in the First World War?

(1) Mustard gas
(2) Water gas
(3) Hydrogen cyanide
(4) Carbon monoxide

24. What is the full form of the term ‘NPA’ as used in banking environment?

(1) Not Profitable Assets
(2) Net Performing Assets
(3) Non Performing Assets
(4) New Potential Accounts

25. The expected energy of electrons at absolute zero is called:

(1) Work function
(2) Potential energy
(3) Emission energy
(4) Fermi energy

26. One Kilo Byte represents:

(1) 1024 Bytes
(2) 1000 Bytes
(3) 100 Bytes
(4) 1064 Bytes

27. Creation of MUDRA bank was proposed in the recent budget proposal of the Government of India. MUDRA stands for:

(1) Monetary Union Development Repay agency
(2) Medium Units Development & Reconstruction Agency
(3) Micro Units Development Refinance Agency
(4) Multipurpose Undertakings Development Refinance Agency

28. The position of how many letters in the word BRAKES remains unchanged when they are arranged in alphabetical order?

(1) 1
(2) 3
(3) 2
(4) None of these

29. In a row of 16 boys, when Ashish was shifted two places towards the left, he became 7th from left end. What was his earlier position from the right end of the row?

(1) 10th
(2) 12th
(3) 9th
(4) 8th

30. A metallic sphere is melted and is cast into a solid cylinder. If the radius of the base of the cylinder is equal to the radius of the sphere, then the ratio of the surface area of the sphere to the total surface area of the cylinder is:

(1) 1:1
(2) 7:8
(3) 6:7
(4) 7:5
31. The total cost price of two items is Rs. 10,200/- and their selling prices are equal. If one of the two items is sold at a loss of 12% and another is sold at a loss of 18%, then the cost price of the item which is sold at a loss of 18% is:
   (1) 5280 (2) 4920 (3) 5820 (4) None of these

32. A petrol tank at a filling station has a capacity of 400 litres. The attendant sells 40 litres of petrol from the tank to one customer and then replenishes it with kerosene oil. This process is repeated with six customers. What quantity of pure petrol will the seventh customer get when he purchases 40 litres of petrol?
   (1) 20.50 litres (2) 20.25 litres (3) 21.25 litres (4) None of these

33. A and B are two alloys of gold and copper prepared by mixing metals in the ratios 5:3 and 5:11 respectively. Equal quantities of these alloys are melted to form a third alloy C. The ratio of gold and copper in the alloy C is:
   (1) 33:25 (2) 25:33 (3) 21.25 litres (4) None of these

34. The formula for the number of diagonals in a polygon of n sides is \( d = \frac{1}{2} [n(n-3)] \). If the number of diagonals in a polygon is twice as many as the number of sides, what is the number of sides:
   (1) 3 (2) 5 (3) 7 (4) None of these

35. Peeyush walked 8 km. west and turned right and walked 3 kms. Then again he turned right and walked 12 kms. How far is he from the starting point?
   (1) 5 km (2) 7 km. (3) 9 km. (4) None of these

36. Which one of the following statements correctly describes the Fourth Schedule of the constitution of India?
   (1) It contains the scheme of the distribution of powers between the union and states
   (2) It allocates seats in the council of states
   (3) It contains the languages listed in the constitution
   (4) It contains the provisions regarding the administration of tribal areas

DIRECTIONS: In the following question two statements are followed by two possible inferences. Point out which of the following answer choice applies. Assume statements to be correct even if they vary from facts.

A. Only inference I follows
B. Only inference II follows
C. Both inferences I and II follow
D. Neither inferences I nor II follow

37. All fish are tortoise, no tortoise is a crocodile:
   I. No crocodile is a fish II. No fish is a crocodile
   (1) A (2) B (3) C (4) D

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39. The number of diagonals in a polygon is twice as many as the number of sides, what is the number of sides:
   (1) 3 (2) 5 (3) 7 (4) None of these

40. Which one of the following statements correctly describes the distribution of powers between the union and states?
   (1) It contains the scheme of the distribution of powers between the union and states
   (2) It allocates seats in the council of states
   (3) It contains the languages listed in the constitution
   (4) It contains the provisions regarding the administration of tribal areas

DIRECTIONS: In the following question two statements are followed by two possible inferences. Point out which of the following answer choice applies. Assume statements to be correct even if they vary from facts.

A. Only inference I follows
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C. Both inferences I and II follow
D. Neither inferences I nor II follow

37. All fish are tortoise, no tortoise is a crocodile:
   I. No crocodile is a fish II. No fish is a crocodile
   (1) A (2) B (3) C (4) D
38. When three coins are tossed together, the probability that all coins have the same face is:

(1) 1/4  
(2) 1/6  
(3) 1/3  
(4) None of these

39. A man walked diagonally across a square plot. What was the percent saved by not walking along edges?

(1) 20%  
(2) 30%  
(3) 40%  
(4) 50%

DIRECTIONS: In the following question a number series is given. After the series a number is given followed by the sequence of the given series and answer the question given below the series.

40. If 1 is coded as R, 2 as T, 3 as Z, 4 as B, 5 as O, 6 as L, 7 as C, 8 as J, 9 as V, which of the following is the coded form of 28147962?

(1) TRJBCVLT  
(2) TJRBCVLT  
(3) TJRCBVLT  
(4) None of these

41. 6 10 7 12 8 14 4 (a) (b) (c) (d) (e)

What will come in place of (d)?

(1) 6  
(2) 5  
(3) 8  
(4) 9

42. Five girls are sitting on a bench to be photographed. Sejal is to the left of Rashmi and to the right of Binni. Mamta is to the left of Rashmi. Ragini is between Rashmi and Mamta. Who is sitting immediately right to Ragini?

(1) Rashmi  
(2) Mamta  
(3) Binni  
(4) Sejal

43. Amar can complete a work in 3 days, Bobby in 4 days and Cheenu in 5 days. If they complete the same work together and get Rs. 14,100/- as remuneration, then the share of Cheenu in rupees will be:

(1) 2800  
(2) 3000  
(3) 3200  
(4) 3600

44. The work done by a woman in 8 hours is equal to the work done by a man in 6 hours and by a boy in 12 hours. If working 6 hours per day 9 men can complete a work in 6 days, then how many days can 12 men, 12 women and 12 boys together finish the same work working 8 hours per day?

(1) 1 1/3 days  
(2) 2 2/3 days  
(3) 1 1/2 days  
(4) None of these

45. Who among the following is well known as an exponent of flute?

(1) Madhup Mudgal  
(2) Shafaat Ahmad  
(3) Ronu Mazumdar  
(4) Debu Choudhari

46. 5 girls are sitting on a bench to be photographed. Sejal is to the left of Rashmi and to the right of Binni. Mamta is to the left of Rashmi. Ragini is between Rashmi and Mamta. Who is sitting immediately right to Ragini?

(1) Rashmi  
(2) Mamta  
(3) Binni  
(4) Sejal

47. If 1 is coded as R, 2 as T, 3 as Z, 4 as B, 5 as O, 6 as L, 7 as C, 8 as J, 9 as V, which of the following is the coded form of 28147962?

(1) TRJBCVLT  
(2) TJRBCVLT  
(3) TJRCBVLT  
(4) None of these

48. The work done by a woman in 8 hours is equal to the work done by a man in 6 hours and by a boy in 12 hours. If working 6 hours per day 9 men can complete a work in 6 days, then how many days can 12 men, 12 women and 12 boys together finish the same work working 8 hours per day?

(1) 1 1/3 days  
(2) 2 2/3 days  
(3) 1 1/2 days  
(4) None of these

49. If 1 is coded as R, 2 as T, 3 as Z, 4 as B, 5 as O, 6 as L, 7 as C, 8 as J, 9 as V, which of the following is the coded form of 28147962?

(1) TRJBCVLT  
(2) TJRBCVLT  
(3) TJRCBVLT  
(4) None of these

50. The work done by a woman in 8 hours is equal to the work done by a man in 6 hours and by a boy in 12 hours. If working 6 hours per day 9 men can complete a work in 6 days, then how many days can 12 men, 12 women and 12 boys together finish the same work working 8 hours per day?

(1) 1 1/3 days  
(2) 2 2/3 days  
(3) 1 1/2 days  
(4) None of these

51. If 1 is coded as R, 2 as T, 3 as Z, 4 as B, 5 as O, 6 as L, 7 as C, 8 as J, 9 as V, which of the following is the coded form of 28147962?

(1) TRJBCVLT  
(2) TJRBCVLT  
(3) TJRCBVLT  
(4) None of these

52. If 1 is coded as R, 2 as T, 3 as Z, 4 as B, 5 as O, 6 as L, 7 as C, 8 as J, 9 as V, which of the following is the coded form of 28147962?

(1) TRJBCVLT  
(2) TJRBCVLT  
(3) TJRCBVLT  
(4) None of these

53. If 1 is coded as R, 2 as T, 3 as Z, 4 as B, 5 as O, 6 as L, 7 as C, 8 as J, 9 as V, which of the following is the coded form of 28147962?

(1) TRJBCVLT  
(2) TJRBCVLT  
(3) TJRCBVLT  
(4) None of these

54. If 1 is coded as R, 2 as T, 3 as Z, 4 as B, 5 as O, 6 as L, 7 as C, 8 as J, 9 as V, which of the following is the coded form of 28147962?

(1) TRJBCVLT  
(2) TJRBCVLT  
(3) TJRCBVLT  
(4) None of these

55. If 1 is coded as R, 2 as T, 3 as Z, 4 as B, 5 as O, 6 as L, 7 as C, 8 as J, 9 as V, which of the following is the coded form of 28147962?

(1) TRJBCVLT  
(2) TJRBCVLT  
(3) TJRCBVLT  
(4) None of these

56. If 1 is coded as R, 2 as T, 3 as Z, 4 as B, 5 as O, 6 as L, 7 as C, 8 as J, 9 as V, which of the following is the coded form of 28147962?

(1) TRJBCVLT  
(2) TJRBCVLT  
(3) TJRCBVLT  
(4) None of these

57. If 1 is coded as R, 2 as T, 3 as Z, 4 as B, 5 as O, 6 as L, 7 as C, 8 as J, 9 as V, which of the following is the coded form of 28147962?

(1) TRJBCVLT  
(2) TJRBCVLT  
(3) TJRCBVLT  
(4) None of these

58. If 1 is coded as R, 2 as T, 3 as Z, 4 as B, 5 as O, 6 as L, 7 as C, 8 as J, 9 as V, which of the following is the coded form of 28147962?

(1) TRJBCVLT  
(2) TJRBCVLT  
(3) TJRCBVLT  
(4) None of these

59. If 1 is coded as R, 2 as T, 3 as Z, 4 as B, 5 as O, 6 as L, 7 as C, 8 as J, 9 as V, which of the following is the coded form of 28147962?

(1) TRJBCVLT  
(2) TJRBCVLT  
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(4) None of these

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46. Match list-I with List-II and select the correct answer using the codes given below the list:

<table>
<thead>
<tr>
<th>List—I</th>
<th>List—II</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Material properties)</td>
<td>(Test to determine properties)</td>
</tr>
<tr>
<td>A. Ductility</td>
<td>1. Impact test</td>
</tr>
<tr>
<td>B. Toughness</td>
<td>2. Fatigue test</td>
</tr>
<tr>
<td>C. Endurance limit</td>
<td>3. Tension test</td>
</tr>
<tr>
<td>D. Resistance to penetration</td>
<td>4. Hardness test</td>
</tr>
</tbody>
</table>

Codes:

1. A3, B2, C1, D4
2. A4, B2, C1, D3
3. A3, B1, C2, D4
4. A4, B1, C2, D3

47. Concurrent force system is the system when:

1. Lines of action of all forces pass through a point
2. Lines of action of all forces are parallel to each other
3. Lines of action of all forces lie along same line
4. Lines of action of all forces are not parallel to each other

48. A couple is formed when:

1. Two unequal and unlike parallel force acting on a body
2. Two unequal and like parallel force acting on a body
3. Two equal and unlike parallel force acting on a body
4. Two equal and like parallel force acting on a body

49. The total area under the stress-strain curve of a mild steel specimen tested up to failure under tension is a measure of its:

1. Breaking strength
2. Toughness
3. Hardness
4. Stiffness

50. Which material has highest value of poission’s ratio?

1. Elastic Rubber
2. Wood
3. Copper
4. Steel

51. The motion transmitted between teeth of two spur gears is generally:

1. Sliding
2. Rolling
3. Rotary
4. Partly sliding and partly rolling

52. The static deflection of a shaft under a flywheel is 4 mm. What is the critical speed in rad/sec if g = 10 m/s^2?

1. 50
2. 20
3. 10
4. None of these

53. According to Indian Standard specifications 50H_{g6} means that:

1. Actual size is 50 mm
2. Tolerance grade for hole is 7
3. Tolerance grade for shaft is 6
Which of the statements made above are correct?

1. 1 and 2
2. 1, 2 and 3
3. 2 and 3
4. None of these

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3. Tolerance grade for shaft is 6
Which of the statements made above are correct?

1. 1 and 2
2. 1, 2 and 3
3. 2 and 3
4. None of these
54. A wooden block rests on a horizontal force as shown in figure. The force (P) acting on it at an angle of 25° with horizontal. Assume the mass of block to be 8 Kg and coefficient of friction is 0.45.

The force (P) is:
(1) 42.45 N  (2) 49.31 N  (3) 52.21 N  (4) None of these

55. The maximum distortion energy theory of failure is suitable to predict the failure of which one of the following type of materials?
(1) Brittle  (2) Ductile  (3) Composite  (4) Plastics

56. Consider two rods A, B of the same material and subjected to equal axial load. The rod A is of uniform cross-section with diameter d, and the rod B taper uniformly from diameter d at one end to diameter d/2 at other end. The ratio of elongation of rod A to elongation of rod B will be:
(1) 1:1  (2) 1:2  (3) 1:3  (4) 1:4

57. A Hook’s joint is used to connect:
(1) Two parallel shaft  (2) Two intersecting shaft  (3) Two non parallel intersecting shaft  (4) Two non parallel non-intersecting shaft

58. A truss is said to be perfect when it satisfies the following conditions:
(1) m = 2j + 3  (2) m = 3j - 2  (3) m = 2j - 3  (4) m = 3j + 2

59. Enlarging an existing circular hole with a rotating single point tool is called:
(1) Boring  (2) Drilling  (3) Reaming  (4) Internal turning

60. Plug gauge is used to measure:
(1) Shaft size  (2) Hole size  (3) Wire thickness  (4) Depth of threads

61. In order to have interference fit, it is essential that the lower limit of the shaft should be:
(1) Greater than upper limit of the hole  (2) Lesser than upper limit of the hole  (3) Greater than lower limit of the hole  (4) Lesser than lower limit of the hole
62. A steel plate of thermal conductivity 50 W/mK and thickness 10 cm passes a heat flux by conduction of 25 KW/m². If the temperature of hot surface of the plate is 100°C, then what is the temperature of cooler surface of the plate?

(1) 30°C  (2) 40°C  (3) 50°C  (4) None of these

63. Gears are manufactured in mass production by:

(1) Milling  (2) Shaping  (3) Hobbing  (4) Forming

64. In blanking and piercing operation, clearance between die and punch depends on:

(1) Diameter of hole required  (2) Thickness of sheet material  (3) Number of pieces to be made  (4) Capacity and types of press

65. Gate is provided in moulds to:

(1) Give passage to gases  (2) Compensate for shrinkage  (3) Feed the casting at a constant rate  (4) Avoids cavities

66. The electric resistance welding operates with:

(1) Low current and high voltage  (2) High current and low voltage  (3) Low current and low voltage  (4) High current and high voltage

67. An orthogonal cutting operation is being carried out under the following conditions

Cutting speed (V)=2m/s, depth of cut=0.5 mm, chip thickness=0.6 mm

Then chip velocity is:

(1) 2 m/s  (2) 1.66 m/s  (3) 1 m/s  (4) None of these

68. The rake angle of a cutting tool is 15°, the shear angle is 45° and the cutting velocity is 35 m/min. What is the velocity of chip along the tool face?

(1) 28.5 m/s  (2) 27.3 m/s  (3) 25.3 m/s  (4) None of these

69. A 40 mm diameter rod is to be turned on a lathe at a cutting speed of 30 m/min. The required spindle speed should be approximately:

(1) 120 rpm  (2) 180 rpm  (3) 240 rpm  (4) None of these

70. A tank containing air is stirred by a paddle wheel. The work input to the paddle wheel is 9000 KJ and heat transferred to the surroundings from the tank is 3000 KJ. The external work done by the system is:

(1) Zero  (2) 3000 KJ  (3) 6000 KJ  (4) None of these

71. 50 W/mK का तापमान संचालकता और 10 सें.मी. मोटाई की किसी स्टील लेट से 25 KW/m² के संचालन से ताप उत्पादन हुआ है। यदि लेट की ग्रंथ सतह का तापमान 100°C है तो लेट की ठंडी वाली सतह का तापमान क्या है?

(1) 30°C  (2) 40°C  (3) 50°C  (4) None of these

62. ग्रीष्म कुलद उपलब्ध में विकसित किया जाता है:

(1) पैलिंग द्वारा  (2) इशिपिंग द्वारा  (3) होबिंग द्वारा  (4) फर्मिंग द्वारा

63. शैक्षणिक कार्य और खेल प्रचालन में धारी और पंच के बीच का उत्पाद निर्माता करता है:

(1) अपूर्ववाद में का व्याप्त पर  (2) बीट पदार्थ की मोटाई पर  (3) बनाए जाने वाले ठूले का संधान पर  (4) प्रेष की अथात और उत्पाद पर

64. सादों में धार होना है:

(1) शैक्षणिक कार्यों के लिए  (2) सिद्धांतवाद की क्षितिजपात के लिए  (3) निर्माण रूप से अर्कर्निंग शालने के लिए  (4) हिस्से में चारे के लिए

65. कौई अनुगोष्ठ ग्रिड कार्य मिन क्षितिजधार में किया जा रहा है:

किऱ्टिंग गति (V)=2m/s, कट की गहराई =0.5 एम/सेक, चिप की मोटाई =0.6 एम/एस
to विध वेन है:

(1) 2 m/s  (2) 1.66 m/s  (3) 1 m/s  (4) None of these

66. किसी कार्यकाल कार्य का निम्न सर्कलेट्स में किया जा रहा है:

किऱ्टिंग गति (V)=2m/s, कट की गहराई =0.5 एम/सेक, चिप की मोटाई =0.6 एम/एस
to विध वेन है:

(1) 28.5 m/s  (2) 27.3 m/s  (3) 25.3 m/s  (4) None of these

67. किसी कार्यकाल गति का एक वेन 15° है, शैक्षणिक कार्य 45° है और किऱ्टिंग वेन 35 एम/मी. है। यंत्र फलक के साथ विध का वेन क्या है?

(1) 28.5 m/s  (2) 27.3 m/s  (3) 25.3 m/s  (4) None of these

68. 40 दिनों में कितनी ढा का क्षति 30 एम/मी. की किऱ्टिंग गति के साथ खराब पर मोड़ा जाना है। अपूर्ववाद में इसकी चाहिए लागत:

(1) 120 m/s  (2) 180 m/s  (3) 240 m/s  (4) None of these

69. वायु की किसी छट्ट को 30 एम/मी. की किऱ्टिंग गति के साथ खराब पर मोड़ा जाता है। अपूर्ववाद में इसकी चाहिए लागत:

(1) 1200 m/s  (2) 3000 m/s  (3) 6000 m/s  (4) None of these
71. If the thermal efficiency of a Carnot heat engine is 40%, then Co-efficient of performance of a refrigerator working within same temperature limits would be:

(1) 4.5  (2) 3.5
(3) 1.5  (4) None of these

72. A heat engine is supplied with 280 KJ/s of heat at a constant fixed temperature of 520 K and heat rejection takes place at 260 K temperature. If the engine is reversible, the heat rejected would be approximately equal to:

(1) 85 KJ/s  (2) 110 KJ/s
(3) 140 KJ/s  (4) None of these

73. An engine operate between temperature limits of 900 K and T_2, and an other engine operates between T_2 and 400 K. For both engines to be equally efficient, T_2 should be equal to:

(1) 600 K  (2) 625 K
(3) 650 K  (4) None of these

74. Two car A and B moves at 54 Km/hr in the same direction and the car B is 300 m ahead of car A. If the car A is accelerated at 6m/s^2 while car B continue to move with the same velocity, calculate the time taken by car A to overtake car B:

(1) 10 s  (2) 20 s
(3) 15 s  (4) None of these

75. Draft is provided in pattern so that:

(1) It can be easily withdrawn from mould cavity
(2) Sand can be filled easily
(3) Compression can be done effectively
(4) Casting can be solidifying easily

76. Arc blow is:

(1) A casting defect  (2) A welding defect
(3) A forging defect  (4) A fitting defect

77. A simply supported beam of span l and carrying uniform distributed load w per unit length, then maximum bending moment is given by:

(1) Wl^2/2  (2) Wl^2/4
(3) Wl^2/8  (4) Wl^2/16

78. In an arc welding:

(1) Flux is coated on the surface to be welded
(2) Flux is poured on the surface in the form of powder
(3) Flux is coated on the electrode
(4) No flux is used
79. The point of contraflexture in a loaded beam refers to the section where:

1. Bending moment is maximum
2. Shear force is maximum
3. Shear force is zero
4. Bending moment change sign

80. Which of the following fitting is a boiler mounting?

1. Superheater
2. Economizer
3. Feed check valve
4. Blow down cock

81. Which is not a part of patrol engine?

1. Valve mechanism
2. Fuel injector
3. Induction coil
4. Air filter

82. The moment of Inertia of an area is always least with respect to:

1. Vertical axis
2. Radius of gyration
3. Centroidal axis
4. None of these

83. During metal cutting operation, it was observed that the chip thickness is 2mm and the shear angle is 30°. The corresponding length of shear plane is:

1. 1 mm
2. 2 mm
3. 3 mm
4. 4 mm

84. If the principle stresses on a plane stress problem are $S_1 = 100$ MPa and $S_2 = 40$ MPa then the magnitude of shear stress (MPa) will be:

1. 60
2. 50
3. 30
4. None of these

85. A body moves with a speed of 10 m/s in the curved path of 25 m radius of curvature. If the tangential acceleration is 3 m/s², then total acceleration for the body will be:

1. $3.3 \text{ m/s}^2$
2. $4 \text{ m/s}^2$
3. $5 \text{ m/s}^2$
4. None of these

86. A Kaplan turbine is suitable for:

1. Low head and low discharge
2. Low head and high discharge
3. High head and low discharge
4. High head and high discharge

87. Cavitation in centrifugal pumps can be reduced by:

1. Reducing the discharge
2. Reducing the suction head
3. Throttling the discharge
4. Increasing the flow velocity
88. Polar moment of inertia of a hollow shaft having D and d as outer and inner diameters, is given by:

(1) \( \frac{\pi}{8}(D^4 - d^4) \)
(2) \( \frac{\pi}{32}(D^4 - d^4) \)
(3) \( \frac{\pi}{64}(D^4 - d^4) \)
(4) \( \frac{\pi}{12}(D^4 - d^4) \)

89. Two block of weight 50 N and 30 N respectively are connected by a light string passing over a smooth frictionless pulley. The acceleration with which the weights move:

(1) 2.25 m/s²
(2) 2.45 m/s²
(3) 3.05 m/s²
(4) None of these

90. Two shafts whose axes are not in the same straight line and are not parallel but intersect each other. Which of the following couplings can be used for this type of shafts?

(1) Flexible coupling
(2) Universal coupling
(3) Oldham’s coupling
(4) Rigid coupling

91. A bench vice is provided with which type of threads:

(1) V–Threads
(2) BSW Threads
(3) Buttress Threads
(4) Acme Threads

92. The ‘Crowning’ of the flat pulley is generally done:

(1) To reduce the belt friction
(2) To prevent the belt joint from damaging the belt surface
(3) To prevent the belt from running off the pulley
(4) In case of cross belt drive only

93. The thickness of a gear tooth is measured:

(1) Along the pitch circle
(2) Along the root circle
(3) Along the outer circle
(4) Average of the profile

94. The cycle generally used for petrol engine is:

(1) Otto cycle
(2) Dual cycle
(3) Carnot cycle
(4) Brayton cycle

95. The power transmitted by a circular shaft rotating at N rpm under action of torque T is:

(1) \( \frac{2\pi NT}{75} \)
(2) \( \frac{2\pi NT}{4500} \)
(3) \( \frac{2\pi NT}{650} \)
(4) None of these
96. A belt pulley of 200 mm diameter such that the ratio of tension in tight side and slack side is 1.2. The maximum tension in the belt not to exceed 240 kN. Speed of the pulley is 60 rpm. Find the safe power that can be transmitted by the pulley:

(1) 25.13 W
(2) 26.41 W
(3) 24.2 W
(4) None of these

97. The resultant upward pressure of a fluid on a floating body is equal to the weight of the fluid displaced by the body. This is known as:

(1) Pascal law
(2) Buoyancy force
(3) Specific gravity of liquid
(4) Viscosity of liquid

98. A point 20mm below HP and 30mm behind VP, It top view will be:

(1) 20mm below XY
(2) 30mm below XY
(3) 20mm above XY
(4) 30mm above XY

99. Which of the following welding method uses a pool of molten metal?

(1) Carbon arc welding
(2) Submerged arc welding
(3) TIG arc welding
(4) MIG arc welding

100. A hacksaw blade cuts on the:

(1) Forward stroke
(2) Return stroke
(3) Both forward and return stroke
(4) None of these

101. Sand acquires a predetermined shape under pressure and retains the same when pressure is removed. This is due to the property of sand known as:

(1) Plasticity
(2) Cohesiveness
(3) Refractoriness
(4) Adhesiveness

102. The size of the lathe is expressed as:

(1) Gross weight of the lathe
(2) Diameter of the chuck
(3) Maximum speed of the chuck
(4) Swing of the lathe

103. The resistance per unit area, offered by a body against deformation is known as:

(1) Load
(2) Pressure
(3) Stress
(4) Strain
104. The heat engine that operates the most efficiently between a high-temperature reservoir and a low-temperature reservoir is the:

(1) Carnot Engine
(2) C.I. Engine
(3) S.I. Engine
(4) Gas Turbine Engine

105. The cycle generally used for gas turbines is:

(1) Otto cycle
(2) Brayton cycle
(3) Carnot cycle
(4) Dual cycle

106. Relation between number of links (I) and number of pairs (P) is:

(1) \(I = 2P - 2\)
(2) \(I = 2P - 3\)
(3) \(I = 2P - 4\)
(4) None of these

107. In centre less grinding, work piece is clamped in:

(1) Bed
(2) Vice
(3) Chuck
(4) Collet

108. Which of the following measuring device is used for measuring the rate of flow of a fluid flowing through a pipe:

(1) Venturi meter
(2) Orifice meter
(3) Pitot tube
(4) All of these

109. In a refrigeration cycle the heat is absorbed by refrigerant at:

(1) Evaporator
(2) Condenser
(3) Expansion valve
(4) Compressor

110. Effort required at the circumference of the screw jack to lift the load (W) is given by:

(1) \(W \tan (\alpha - \varphi)\)
(2) \(W \tan (\varphi - \alpha)\)
(3) \(W \tan (\alpha + \varphi)\)
(4) None of these

111. On a ladder resting on a smooth ground and leaning against vertical wall, the force of friction will be:

(1) Away from the wall at its upper end
(2) Towards the wall at its upper end
(3) Upwards at its upper end
(4) Downwards at its upper end

112. For a given steam temperature of 850°C and vacuum of 0.1 kg/cm² absolute, the Rankine cycle efficiency will be maximum when steam pressure is:

(1) 100 kg/cm²
(2) 200 kg/cm²
(3) Critical pressure (225.4 kg/cm²)
(4) 350 kg/cm²
113. In a two-fluid heat exchanger, the inlet and outlet temperature of the hot fluid are 65°C and 40°C respectively. For the cold fluid, these are 15°C and 42°C. The heat exchanger is a:
(1) Parallel flow heat exchanger
(2) Counter flow heat exchanger
(3) Heat exchange device where both parallel flow and counter flow operations are possible
(4) None of the above

114. The conditions for the stable equilibrium of a floating body are:
(1) The meta-centre should lie above the centre of gravity
(2) The centre of buoyancy and the centre of gravity must lie on the same vertical line
(3) A righting couple should be formed
(4) All the above are correct

115. Generally least count of the commonly used vernier is:
(1) 0.1 mm
(2) 0.01 mm
(3) 0.02 mm
(4) 0.2 mm

116. If a ball which is dropped from a height of 2.25 m on a smooth floor attains the height of bounce equal to 1.00 m, the coefficient of the restitution between the ball and the floor is equal to:
(1) 0.25
(2) 0.50
(3) 0.67
(4) 0.33

117. A spherical vessel with an inside diameter of 2 m is made of material having an allowable stress in tension of 500 kg/cm². The thickness of a shell to withstand a pressure of 25 kg/cm² should be:
(1) 5 cm
(2) 10 cm
(3) 2.5 cm
(4) 1.25 cm

118. Choose the correct statement:
(1) An adiabatic process is always reversible
(2) An isentropic process is never reversible
(3) An adiabatic process is always isentropic
(4) A frictionless adiabatic process is always isentropic

119. A pump delivers water at a rate of 0.025 m³/s against a head of 30 m. If the overall efficiency of the pump is 75%, the power required by the pump is:
(1) 1 kW
(2) 4.9 kW
(3) 7.8 kW
(4) 9.8 kW

120. Morse test is carried out to determine ..... of an engine:
(1) I.H.P.
(2) F.H.P.
(3) B.H.P.
(4) Efficiency
1. अपने प्रश्न का उत्तर देने से पहले अपनी प्रतियोगिता की बजाय-बाति ज्बाल करें, लेकिन जिसमें 120 प्रश्न हैं। प्रत्येक प्रश्न पुस्तिका की सिरिज़ यंत्र द्वारा बिना मिलने होगी (प्रत्येक पुस्तिका कोई संयंत्र या प्रत्येक पुस्तिका सिरिज़ एवं प्रत्येक पुस्तिका कोई संयंत्र लिखना है। पुनः यह भी मुझे दिखा कि इसमें दिनिंग सही अवधारणा अन्य शिक्षा की कोई कौन है। यदि किसी प्रश्न की कोई कौन हो तो पत्रिका को सुनिश्चित करें और प्रत्येक पुस्तिका वांछन का नहीं पुस्तिका ले। इस संस्थान में किसी भी प्रश्न की कोई विषयक या पत्रिका पर यहाँ से कोई विषयक नहीं किया जाएगा।

महत्त्वपूर्ण: आपको और आपके अभ्यास पुस्तिका के प्रस्तुतांश के संबंध में कुछ काम करना है। अतः आपके उत्तर पर यहाँ से कोई प्रश्न के प्रतियोगिता एवं प्रत्येक पुस्तिका कोई संयंत्र के संबंध में सूचना की जाएगी।

2. गलत उत्तर के लिए 1/3 अंशांश अंक दिया। प्रत्येक प्रश्न के अंक समांतर है। विस्तृत जानकारी के लिए उत्तर प्रकाश का अन्वेषण करें।

3. न-निर्देशक से अपने प्रश्न-पत्र पर हस्ताक्षर अद्यावधी करें। वह अपने हस्ताक्षर नहीं करवाया तो अपनी पत्रक घट कर दी जाएगी।

4. यह एक विश्लेषण किम पहला निर्देशक है जिससे प्रत्येक प्रश्न के नीचे कमांड (1) से (4) तक चार प्रतियोगिता उत्तर दिये हैं। अपने विषय में जो भी उत्तर सही/संयंत्र है उसके दृष्टि-ने उत्तर पत्र में दिखाई दिये जिनके अनुसार निर्देशक विश्वास। अपने उत्तर प्रश्न पुस्तिका में न लगाएँ।

5. आपके उत्तर पत्र पर सबी कार्यों के लिए नीले/काले धारा पाईपेंट पत्र में लिखें। आपके आपके उत्तर पत्र पर अंकलोग का पूर्ण उत्तर से निकलेकोटोल/काले धारा पाईपेंट पत्र में रहें। एक मात्र विषय पर दिखाई देने वाला नहीं अंक लगाएँ।

6. उत्तर-पत्र पर ये सत्य कर्म करने नहीं हो जो और दिखाई प्रतियोगिता नाम लगाएँ या इसे निकालें।

7. कंटासेम, स्लाईडिंग, दीवारिंग, कंट्रोलर जोड़ों या इन प्रश्न के तेजी भी किसी भी अधिकारका/संयंत्र सही अंक या प्रतियोगिता का संयंत्र कहने में विचार है।

8. प्रश्न पुस्तिका में किसी भी खाली स्थान में किसी नजर रखने के लिए, आपके आपके उत्तर पत्र पर अपने अन्य कार्य के लिए किसी अन्य नहीं। किसी अन्य कार्य पर ये करने की अनुमति नहीं है।

9. पत्रिका की व्यवस्था के प्रश्न अपनी पूरी प्रतियोगिता तथा उत्तर-पत्र पर संयंत्र पक्ष का वापस करने हेतु प्रतियोगिता या इसके किसी भाग अधिकारका OMR उत्तर पत्र पर पत्रिका को पत्रिका के बाहर ले जाना विज्ञात है।

10. हर एक प्रश्न का लिए वेबिल्युट एक ही संयंत्र देख। फिर से अधिक प्रश्न पर यहाँ से कोई अंक नहीं दिया जाएगा। उत्तर में कोई भी दिशेन्न या अवसादित मान्यता नहीं होगी। पूना में हर प्रश्न पहुँच कर (हिंदी एवं अंग्रेजी) में है। हिंदी संस्करण में किसी भी फिक्रिया होने पर मूल्यांकन के लिए अंकी संख्या को अन्तर्गत माना जाएगा।