



PU MET QUESTION PAPER

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Question Booklet Series: **A**

Question Booklet Serial No.: **100288**

M.E.T. – 2021

Important: Please consult your Admit Card/Roll No. slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.

(In Figure)

(In Words)

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O.M.R. Answer Sheet Serial No.

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Signature of Candidate: _____

Signature of Invigilator: _____

Time: 2 Hours

Number of Questions: 120

Maximum Marks: 120

DO NOT OPEN THE SEAL ON THE BOOKLET UNTIL ASKED TO DO SO.

INSTRUCTIONS:

1. Write your Roll No. on the Questions Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
2. Enter the Question Booklet Serial No. on the OMR Answer Sheet. Darken the corresponding bubbles with **Black Ball Point/Black Gel Pen**.
3. Do not make any identification mark on the Answer Sheet or Question Booklet.
4. Please check that this Question Booklet contains 120 Questions. In case of any discrepancy, inform the Assistant Superintendent within 10 minutes of the start of Test.
5. Each question has four alternative answers (A,B,C,D) of which only one is correct. For each question, darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with **Black Ball Point/Black Gel Pen**. There shall be negative marking for wrong answer, $\frac{1}{4}$ of the marks of the question will be deducted for every wrong answer.
6. If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Booklet. No marks will be deducted in such cases.
7. Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the question given in the Question Booklet.
8. If you want to change an already marked answer, erase the shade in the darkened bubble completely.
9. For rough work only the blank sheet at the end of the Question Booklet be used.
10. The Answer Sheet is designed for computer evaluation. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. **Any resultant loss to the candidate on the above account, i.e. not following the instructions completely, shall be of the candidate only.**
11. **20 minutes per hour extra would be given to the visually handicapped/PwD Candidates.**
12. After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on duty.
13. In no case the Answer Sheet, the Question Booklet, or its part or any material copied/noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so would be expelled from the examination.
14. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistant or found giving or receiving assistant or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
15. **Communication equipment such as mobile phones, pager, wireless set, scanner, camera or any electronic/digital gadget etc., is not permitted inside the examination hall. Use of calculators is not allowed.**
16. The candidates will not be allowed to leave the Examination Hall/Room before the expiry of half of the allotted time.

(SET - A)

1. A number 15 is divided into three parts which are in AP and the sum of their squares is 83. Find the smallest number?
A) 5 B) 3 C) 6 D) 8
2. How many natural numbers between 300 to 500 are multiples of 7?
A) 29 B) 28 C) 27 D) 30
3. The average of the first five multiples is:
A) 20 B) 24 C) 28 D) 30
4. Average marks obtained by a student in 3 papers are 52 and in the fourth paper he obtains 60 marks. Find his new average:
A) 54 B) 52 C) 55 D) 53.5
5. Find the average increase rate if increase in the population in the first year is 30% and that in the second year is 40%.
A) 41 B) 56 C) 40 D) 38
6. The average age of Ram and Shyam is 20 years. Their average age five years hence will be:
A) 12 B) 24 C) 25 D) 50
7. 30 oranges and 75 apples were purchased for Rs. 510. If the price per apple was Rs. 2, then the average price of orange is:
A) 10 B) 12 C) 14 D) 15
8. The population of a village is 1, 00,000. The rate of increase is 10% per annum. Find the population at the start of the third year:
A) 1,18,800 B) 1,20,000 C) 1,21,000 D) 1,33,100
9. In a mixture of 80 litres of milk and water 25% of the mixture is milk. How much water should be added to the mixture so that milk becomes 20% of the mixture
A) 15 litres B) 20 litres C) 24 litres D) 25 litre
10. Arvind can cover a certain distance in 1 hour 24 min by covering two -third of the distance at 4 kmph. The total distance is?
A) 5km B) 6km C) 8km D) 9.2km
11. The marked price of machine is Rs. 620, Due to off season a 15% discount is allowed. The selling price of the machine is?
A) Rs. 427 B) Rs. 527 C) Rs. 537 D) Rs. 547
12. If $54+43=2$, $60+51=10$, then $62+72=?$
A) 20 B) 9 C) 30 D) 18
13. If $16-2=2$, $9-3=0$, $81-1=8$, then what is $64-4=?$
A) 6 B) 8 C) 4 D) 2

14. By selling a watch for Rs. 495, a shopkeeper incurs a loss of 10%. Find the cost price of the watch for the shopkeeper:
 A) Rs. 545 B) Rs. 550 C) Rs. 555 D) Rs. 565
15. If a compound interest on a certain sum of 2 years is Rs. 21. What could be the simple interest?
 A) Rs. 16 B) Rs. 18 C) Rs. 18.5 D) 20
16. The speeds of the three cars are in the ratio of 2: 3: 4. The ratio between the times taken by these cars to travel the same distance is:
 A) 2: 3 : 4 B) 4 : 3 : 2 C) 4 : 3: 6 D) 6 : 4 :3
17. Raju can do 25% of a piece of work in 5 days. How many days will he take to complete the work ten times?
 A) 150 Days B) 200 Days C) 250 Days D) 300 Days
18. MATHEMATICS = 12345123678, then MAHATMA =?
 A) 124125341 B) 1242312 C) 12345678 D) 12345123
19. Deepak is the brother of Ravi. Rekha is the sister of Atul. Ravi is the son of Rekha. Then how is Deepak related to Rekha?
 A) Son B) Brother C) Nephew D) Brother-in-Law
20. Two people were walking in opposite directions. Both of them walked 6 miles forward then took right and walked 8 miles. How far is each from starting positions?
 A) 14 miles and 14 miles B) 10 miles and 10 miles
 C) 6 miles and 6 miles D) 12 miles and 12 miles
21. A train travelling at 36 kmph crosses a platform in 20 seconds and a man standing on the platform in 10 seconds. What is the length of the platform metres?
 A) 300 metres B) 240 Metres C) 200 metres D) 100 metres
22. The radius of the wire is decreased to one third and its volume remains the same. The new length is how many times the original length?
 A) 2 Times B) 4 Times C) 5 Times D) 9 Times
23. Fill in the blanks: 49 : 16 :: 169 : ?
 A) 86 B) 96 C) 100 D) 101
24. If 10% of a number is subtracted from it, the result is 1800. The number is:
 A) 1900 B) 1920 C) 2000 D) 2140
25. A and B can run 200 metres in 22 and 25 seconds respectively. How far is B from the finishing line when A reaches it?
 A) 8 M B) 12 M C) 17 M D) 24 M
26. ASEAN was established in the year:
 A) 1967 B) 1969 C) 1971 D) 1973

27. KYOTO PROTOCOL is related to:
 A) Competition B) Environmental Protection
 C) Consumer Protection D) Atomic Energy
28. A combination of Printing & Dyeing in a Textile Company is an example of:
 A) Vertical Combination B) Horizontal Combination
 C) Circular Combination D) Backward Combination
29. OPEC was established in Iraq in the year:
 A) 1959 B) 1960 C) 1961 D) 1962
30. Which of the following is named as World Capital of Architecture for 2020?
 A) Paris B) Melbourne C) Greece D) Rio-De- Janeiro
31. Renukaji Dam Multipurpose project will be constructed on the river:
 A) Godavari B) Krishna C) Yamuna D) Som
32. Asian Development Outlook is an annual publication of:
 A) Asian Development Bank B) IMF
 C) World Bank D) UNCTAD
33. Har Modh Par Ped Campaign is associated with:
 A) Increasing Dense Forest Cover B) Promoting Exports
 C) Tree Plantation with Agricultural Crops D) Increasing Bio-fuel production
34. Dhronacharya Award is given to which field?
 A) Literature B) Education C) Sports D) Music
35. Going Online as Leaders, a mission to empower women is launched by:
 A) Google B) Face book C) Microsoft D) Twitter
36. SEZ Act was passed in the year:
 A) 2005 B) 2007 C) 2009 D) 2011
37. Kalapani Border issue is between which countries;
 A) India and Bhutan B) India and Nepal
 C) India and Bangladesh D) Bhutan and Bangladesh
38. Global Economic Prospects Report is released by:
 A) IMF B) World Bank
 C) World Economic Forum D) UNCTAD
39. International Labour Organisation was established in:
 A) 1919 B) 1920 C) 1921 D) 1922
40. Informal Communication network within the organisation is known as:
 A) Inter-Personal Communication B) Intra- Personal Communication
 C) Mass Communication D) Grapevine Communication

41. The acronym HTML stands for:
 A) High Transfer Machine Language B) High Transmission Markup Language
 C) Hypertext Markup Language D) Hyper Mediamark Language
42. Extrocular vision seen recently in new is:
 A) Ability to see objects which are very far B) Age related disease
 C) Eyes with refractive error D) Ability to see without eyes
43. Famous Dada Saheb Phalke Award is given for an exemplary work in the field of:
 A) Cinema B) Education C) Sports D) Science
44. Consumer Protection Act was passed in the year:
 A) 1984 B) 1985 C) 1986 D) 1987
45. The biggest Planet is:
 A) Venus B) Mars C) Mercury D) Jupiter
46. The Food Safety and Standards Authority of India was established in:
 A) 2006 B) 2007 C) 2008 D) 2009
47. Operation Peace Spring recently in news was conducted by:
 A) Saudi Arabia B) USA C) Turkey D) Yemen
48. The practice of KURKI was banned by the Punjab Government, KURKI refers to:
 A) Stubble Burnings
 B) A Drug
 C) Remove Unemployment
 D) Attachment of farmers by banks in case of non-payment of loan
49. Ashok is heavier than Gopal, Mahesh is lighter than Jayesh, Prashant is heavier than Jayesh but lighter than Gopal. Who is the heaviest?
 A) Ashok B) Jayesh C) Prashant D) Gopal
50. If COLD is written as ALHY, IRON may be written as:
 A) GUKI B) GUSI C) GOKI D) GKUI
51. 'Coal' is related to 'Heat' in the same way 'Wax' is related to:
 A) Light B) Fire C) Energy D) Honey

Directions for Question Nos. 52 to 56. Choose the option closest in meaning to the word given.

52. Low-Key:
 A) Official B) Secret C) Subdued D) Complicated
53. Transitory:
 A) Short- Lived B) Idle C) Unexpected D) Clear
54. Super facial:
 A) Aged B) Proud C) Unusually Fine D) Shallow

55. Sage:

- A) Wise Man B) Tale C) Era D) Fool

56. Utopia:

- A) Holiday Home B) Music C) Perfect State D) Vacant

Directions for Question Nos. 57 to 61. Questions given in the following have a definite relationship. Tick the choice with similar relationship.

57. Tree: Environment:

- A) Oxygen: Gas B) Water: Fish C) Star: Space D) Antiseptic: Wound

58. Shock: Nerves:

- A) Mountain: Valley B) Cold: Chest C) Nail: Chamber D) Soap : Body

59. Canal: Irrigation:

- A) Well: Desert B) Road: Accidents C) Sky : Space D) School : Education

60. Scalp: Hair:

- A) Curtain: Window B) Cloth: Table C) Earth: Grass D) Shoe : Foot

61. Rose: Pink:

- A) Man: Brain B) Earth: Sun C) Ring : Round D) Book : Knowledge

Directions for Question Nos. 62 to 66. Choose the option which is the antonym of the word mentioned below.

62. Amusing:

- A) Silent B) Later C) Boring D) Nice

63. Ambiguity:

- A) Lucidity B) Basal C) Lovable D) Necessity

64. Ameliorate:

- A) Mar B) West C) Stuff D) Fade

65. Candour:

- A) Frankness B) Cunning C) Ingenuous D) Sincere

66. Inclination:

- A) Propensity B) Liking C) Attenuated D) Aversion

67. Seven points lie on a circle. How many chords can be drawn by joining these points?

- A) 22 B) 23 C) 21 D) 24

68. Four dogs and three pups stand in a queue. The probability that they will stand in an alternate positions is:

- A) $1/34$ B) $1/35$ C) $1/17$ D) $1/68$

69. From 6 gentleman and 4 ladies, a committee of 5 is to be formed. In how many ways it can be done if there is no restriction in its formation?
A) 256 B) 246 C) 252 D) 260
70. "DARK" is related to "FEAR" in the same way "HONESTY" is related to:
A) Treachery B) Victory C) Money D) Trust

Directions for Question Nos. 71 to 75. Read the passage below and answer all the questions mentioned below:

Culture is the cultivation of a plant or garden, not the eradication of its roots, it is an understanding of the roots and seeds, their patient care and instructed nourishment. Culture is not knowledge, nor is it art; still less it acquaintance with literature and art. By culture I mean first of all what the anthropologists mean; the way of the life of a particular people living together in one place. That culture is made visible in their arts, in their social system, in their habits and custom, in their religion. It is an aggregate of customs, institutions, manners, standards, tastes, morals and beliefs. Now these are transmitted rather by the family than by the school; hence when family life fails to play its part, we must expect our culture to deteriorate. It is a delusion to think that the maladies of the modern world can be put right by a system of instruction. On the contrary, universal education, by lowering standards, morals and tastes to a common denominator, and by sharpening the wits rather than discipline character, tends to break down existing checks and balances. Education should be the drawing forth of potential values; it should not be the destruction of the safeguards that tradition places around young egos naturally inclined to wilful and precarious flights.

71. The writer uses the term culture refers to:
A) One's acquaintance with literature and art
B) The cultivation of a plant or garden by the community
C) The way of life of a particular people living together in one place
D) One's acquisition of knowledge
72. The passage suggests that Universal Education;
A) Is the solution to the problem in the modern world
B) Is, in fact, aggravating the existing problem of the modern world
C) Would help retain the cultural values
D) Would prevent us from transmitting culture to the future generations
73. The culture of a community is said to deteriorate when:
A) There is fall in its educational standards
B) The family life fails to ply its part
C) There is universal education
D) It adopts the modern system of instruction
74. The culture of a community is transmitted:
A) More by school than the family
B) More by the family than the school
C) Equally by both
D) By the peer group

75. According to this, education is:
 A) The sharpening of wits
 B) Tapping and encouraging the inherent values in man
 C) The substitution of old traditions with new ones
 D) The development of moral standards
76. Fatima ranks 12th in a class of 46. What is her rank from the last?
 A) 33 B) 35 C) 37 D) 34
77. 6 are related to 18 in the same way as 4 are related to:
 A) 2 B) 6 C) 8 D) 16
78. In a certain code MENTION is written as LNEITNO. Then PATTERN is coded as:
 A) APTTREM B) PTAETNR C) OTAETRN D) ERCITANO
79. Deepak is the brother of Ravi. Rekha is the sister of Atul. Ravi is the son of Rekha. Then how is Deepak related to Rekha?
 A) Son B) Brother C) Nephew D) Brother – in –Law
80. A is taller than B and C is taller than D. If D is taller than B, who is the tallest?
 A) B B) C C) A D) Cannot be determined
81. Man : Walk :: Fish : ?
 A) Eat B) Sleep C) Swim D) Emotion
82. House : Window :: Man : ?
 A) Brain B) Eyes C) Speech D) Emotion
83. The World's AIDS day is observed on:
 A) 1st December B) 1st March C) 1st April D) 1st July
84. Pankaj Advani is a Professional player of:
 A) Badminton B) Lawn Tennis C) Football D) Billiards
85. Which Committee had recommended introduction of Smart Card?
 A) Rangarajan Committee B) Nayak Committee
 C) Saraf Committee D) Jha Committee
86. Which of the following disease not caused by Viruses?
 A) Cholera B) Measles C) Chicken Fox D) Hepatitis
87. Which State ranks first in Literacy rate?
 A) Punjab B) Kerala C) Haryana D) Himachal Pradesh

Direction for Question Nos. 88 to 92:

Select Data Pertaining to Ghosh Babu's Firms.

Figure	2004	2003	2002	2001
Sales	6730	5130	2810	3370
Profit before Tax	840	730	230	330
Dividends	150	80	40	40
Retained Earnings	450	320	80	155

(7)

88. In which year was the tax per rupee of profit before tax highest?
A) 2001 B) 2002 C) 2003 D) 2004
89. In which year were the sales per rupee of share capital least?
A) 2001 B) 2002 C) 2003 D) cannot be determined
90. In which year the profit before tax per rupee was the least?
A) 2001 B) 2002 C) 2003 D) 2004
91. In which year was the percentage addition to reserves over previous year reserves the highest?
A) 2001 B) 2002 C) 2003 D) 2004
92. Amount of the reserves at the end of 2004 is:
A) Rs. 885 Lakh B) Rs. 1085 Lakh C) Rs. 1125 Lakh D) None of these

Direction for Question Nos. 93 to 97.

Market Share of Mosquito Repellent in Four Metropolitan Cities

Period/Product	Mumbai		Kolkata		Delhi		Chennai	
	2003	2004	2003	2004	2003	2004	2003	2004
Baygon	20	15	35	40	20	15	20	30
Finit	20	15	30	15	15	10	20	20
Hit	45	40	25	35	35	35	10	10
Mortein	15	20	10	20	10	10	50	40

93. The maximum percentage increase in market share is:
A) 60% B) 50% C) 80% D) 100%
94. The city in which minimum number of products decreased their market shares in 2003-04 is:
A) Mumbai B) Delhi C) Kolkata D) Chennai
95. The market shares of which product did not increase in any city between the years 2003 to 2004:
A) Baygon B) Finit C) Hit D) None of these
96. The number of cities where the four brands taken together did not account for 100% market share for any of the two given years is:
A) 0 B) 1 C) 2 D) 3
97. The number of products which had constant market shares in one or more cities is:
A) 0 B) 1 C) 2 D) 3
98. Which is the 8th letter to the right of 15th letter from your left in the English alphabet?
A) W B) H C) V D) G
99. How many such letter-pairs are there in the word MANAGER having the same number of letters left between them as they have in the series?
A) 2 B) 3 C) 6 D) 7

100. Bird: Fly:: Snake : ?
 A) Hole B) Fly C) Bark D) Crawl
101. Fruits: Apple:: Monument : ?
 A) Students B) Knowledge C) Tajmahal D) College
102. If D = 4, COVER = 63, then BASIS = ?
 A) 54 B) 55 C) 49 D) 50
103. In a certain code SUNDAY is coded as YADNUS. How could CREATION be written in that code?
 A) NOITAERC B) INOTAERL C) IONTEARC D) ERCITANO

Directions for Question Nos. 104 to 106. Identify the odd one out

104. A) Serpent B) Snake C) Crocodile D) Whale
105. A) Duck B) Parrot C) Pigeon D) Sparrow
106. A) 47, 59 B) 42, 29 C) 73, 61 D) 57, 69
107. How Many times are the hands of a clock at right angles in a day?
 A) 22 B) 24 C) 44 D) 48
108. A boy runs at 15.6 kmph. How many metres does he run in 2 minutes?
 A) 260m B) 312m C) 520m D) 1040m
109. Tsunamis are huge sea waves caused by:
 A) Earthquakes B) Winds C) Volcanoes D) Icebergs
110. Which of the following is not a source of pollution in soil?
 A) Transport Sector B) Agriculture Sector
 C) Thermal Power Plants D) Hydropower Plants

Directions: Study the data given in the following table carefully and answer the questions 111 to 115 given below it.

Wheat Production (in Lakh tonnes)

States	1986	1987	1988	1989	1990
I	9.0	10.7	8.9	11.6	8.4
II	14.5	16.3	16.2	16.4	16.8
III	14.9	15.7	16.8	16.9	17.8
IV	7.6	8.4	7.4	7.9	8.6
V	21.0	22.6	23.2	22.2	23.9

111. In 1988, which state contributed close to one-eighth of the total production of all the five states?
 A) I B) II C) III D) IV
112. In which year did the production of state IV fall for the first time?
 A) 1986 B) 1987 C) 1988 D) 1989

113. In which state, the production in 1989 showed the highest increase over that in 1986?
A) I B) II C) III D) IV
114. In which year does the production in state V show the higher percentage of increase over that in the previous year?
A) 1986 B) 1987 C) 1988 D) 1990
115. In which state did the production of wheat increase continuously from 1986 to 1990?
A) I B) II C) III D) IV
116. Identify next number in the series, 3, 6, 12, 15, 30,.....?
A) 33 B) 35 C) 45 D) 60
117. The prices of a scooter and a moped are in the ratio of 9 : 5. If a scooter costs Rs. 6800 more than a moped, the price of a scooter is:
A) Rs. 17000 B) Rs. 13600 C) 15300 D) 16200
118. World Ozone day is:
A) March 16 B) June 5 C) September 16 D) November 16
119. The Ganga Action Plan was initiated during the year:
A) 1986 B) 1988 C) 1990 D) 1992
120. Which of the following organisations looks after the quality of Technical and Management Education in India?
A) NCTE B) MCI C) CSIR D) AICTE

x-x-x

Answer key

1	B	21	D	41	C	61	C	81	C	101	C
2	A	22	D	42	D	62	C	82	B	102	D
3	Withdrawn	23	C	43	A	63	A	83	A	103	A
4	A	24	C	44	C	64	A	84	D	104	D
5	A	25	D	45	D	65	B	85	C	105	A
6	C	26	A	46	A	66	D	86	A	106	B
7	B	27	B	47	C	67	C	87	B	107	C
8	C	28	A	48	D	68	B	88	B	108	C
9	B	29	C	49	A	69	C	89	D	109	A
10	Withdrawn	30	D	50	C	70	D	90	Withdrawn	110	D
11	B	31	C	51	A	71	C	91	Withdrawn	111	A
12	B	32	A	52	C	72	D	92	Withdrawn	112	C
13	C	33	C	53	A	73	B	93	D	113	A
14	B	34	C	54	D	74	B	94	D	114	D
15	D	35	B	55	A	75	A	95	B	115	C
16	D	36	A	56	C	76	B	96	B	116	A
17	B	37	B	57	D	77	C	97	D	117	C
18	B	38	B	58	B	78	Withdrawn	98	A	118	C
19	A	39	A	59	D	79	A	99	A	119	A
20	B	40	D	60	C	80	D	100	D	120	D

Entrance Exams

- Agricultural Entrance Exams
- Architecture Entrance Exam
- Arts and Humanities Entrance Exams
- Commerce Entrance Examinations
- Common Entrance Examinations
- Computer Application Entrance Exams
- Design Entrance Exams
- Education Entrance Exams
- Engineering Entrance Exams
- Hotel Management Entrance Exams
- Law Entrance Exams
- MBA Entrance Exams
- Media & Journalism Entrance Exams
- Medical Entrance Exams
- Nursing Entrance Exams
- Pharmacy Entrance Exams
- Science Entrance Exams
- Diploma & Polytechnic
- Lateral Entry

