

JMTSET

Question Booklet Code : E C D

DO NOT OPEN THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

Roll No. :

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Question Booklet S.No. 45363

Time allowed : 2 hours (For VH candidates : 2 hours and 30 minutes) Maximum Marks : 120

Read the following instructions carefully before you begin to answer the questions. This Booklet contains questions in English only.

## INSTRUCTIONS TO CANDIDATES

- Before you start please check if all the pages in the question book are in order, intact and questions 1 to 120 are available. If you find any defect/s in this question booklet, you must get it replaced immediately.
- Use only the **BLACK/BLUE BALL POINT PEN** that is provided to you to write/mark in the coding sheet.
- Write your Roll Number in the box above.
- This Booklet contains 120 questions in all comprising the following:
 

General English	: 40 questions
General Awareness & Current Affairs	: 40 questions
Numerical Aptitude	: 20 questions
General Intelligence & Reasoning	: 20 questions
- All the questions carry equal marks. One Correct response will be given 1 (One) mark.
- Negative marks will be there for wrong answers. 0.25 marks will be deducted for each wrong answer.
- You have to use only the OMR Coding Sheet which is given along with this question Booklet for answering the questions. You must complete the details in the prescribed places in the OMR Coding Sheet failing which your OMR Coding Sheet will not be evaluated. Visually handicapped candidates shall have to ensure that these details are correctly filled up by the scribe.
- The questions are of multiple-choice type. **FOUR** suggested answers or completions labelled **A, B, C and D** follow each question or incomplete statement. **ONLY ONE** of them is the **MOST APPROPRIATE**. Select the **MOST APPROPRIATE** answer and darken the corresponding oval in the Coding Sheet.
- ONLY ONE** answer is to be marked for each question. No Correction is feasible as the marking is to be done with pen. Marking of wrong options as well as multiple marking will be treated as wrong and marks will be deducted accordingly.
- As the coding in the Coding Sheet will be evaluated by a machine, mark the answers carefully.
- Answer the questions as quickly and carefully as you can. Some questions may be difficult and others may be easy. Do not spend too much time on any question.
- In lieu of questions from 105 to 108, relating to figural portion, additional questions have been provided under the heading "**Additional Questions for VH Candidates**". These are to be answered by the VH candidates only. If any Non-VH candidates attempt these questions these will not be evaluated in their case and no marks will be awarded to them for the same.
- No rough work should be done on the Coding Sheet or within the Question Booklet other than in the 'Space for rough work' provided at the end of the Question Booklet.
- Mobile phones and wireless communication devices are completely banned in the examination halls/rooms. Candidates are advised not to keep mobile phones/any other wireless communication devices with them even by switching it off in their own interest. Failing to comply with this will be considered as using unfair means in the examination and action will be taken against them including cancellation of their candidature.
- This booklet should be **RETURNED INTACT** at the end of the examination failing which the candidature of the candidate's will be cancelled without intimation and his/her Coding Sheet will not be evaluated.

SEAL



## General English

Questions 1 and 2 : Find the proper meaning of the proverbs given below :

1. Make hay while the sun shines
  - A. harvest the crops in summer
  - B. work as hard as the farmer does
  - C. make good use of an opportunity while it lasts
  - D. get up when the sun is shining
  
2. Time and tide wait for no man
  - A. now is the best time to do something
  - B. do things at the time you decide yourself
  - C. it is better to do something at a later time than not to do it at all
  - D. don't leave until later the chance to do something because no one can delay the passing of time
  
3. Four meanings of the following word are given and one of them is not correct. Find it  
mine
  - A. a place where coal is extracted
  - B. made for a person
  - C. a bomb hidden in the ground
  - D. belonging to me
  
4. Pick out the correct meaning of the underlined word in the following sentence.  
Don't desert him in his hour of need.
  - A. a vast sandy region
  - B. a sweet dish
  - C. leave
  - D. help
  
5. A horse \_\_\_\_\_
  - A. bleats
  - B. screams
  - C. trumpets
  - D. neighs

In Questions No. 6 to 12, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Coding Sheet.

6. Negligible  
A. arguable  
B. careless  
C. insignificant  
D. dark
7. Placid  
A. lazy  
B. calm  
C. solemn  
D. devious
8. Isolation  
A. plentitude  
B. fear  
C. solitude  
D. disease
9. Scale  
A. climb  
B. swim  
C. skate  
D. sail
10. Predict  
A. decide  
B. foretell  
C. prevent  
D. discover
11. Drag  
A. sleepy  
B. crush  
C. proud  
D. pull
12. Fiasco  
A. disaster  
B. happening  
C. festival  
D. ceremony



Questions No. 13 to 17 : Fill in the blanks.

13. \_\_\_\_\_ part of a tree is useful to us
- A. some
  - B. every
  - C. few
  - D. many
14. There were so \_\_\_\_\_ people on the beach that it looked like a bazaar
- A. many
  - B. few
  - C. lots of
  - D. number
15. The gardener takes care \_\_\_\_\_ the garden
- A. on
  - B. off
  - C. of
  - D. for
16. Everyone \_\_\_\_\_ coming for the party
- A. are
  - B. will
  - C. were
  - D. is
17. I bought a notebook \_\_\_\_\_ twenty rupees
- A. at
  - B. for
  - C. with
  - D. by

In Questions No. 18 to 25, out of the four alternatives, choose the word which is opposite in meaning to the given word and mark it in the Coding Sheet.

18. Abate  
A. augment  
C. wane  
B. free  
D. provoke
19. Impartial  
A. hostile  
C. biased  
B. dislike  
D. worried
20. Spurious  
A. disingenuous  
C. thoughtless  
B. placid  
D. genuine
21. Placate  
A. enrage  
C. soothe  
B. appease  
D. tremendous
22. Meagre  
A. kind  
C. thoughtful  
B. abundant  
D. scarce
23. Dubious  
A. pleasing  
C. careful  
B. reliable  
D. reckless
24. Dormant  
A. clever  
C. active  
B. dreamy  
D. invisible
25. Evince  
A. hallow  
C. convince  
B. hide  
D. interpret

Questions No. 26 to 29 : Find out the one-word substitution from the four options :

26. The life story of a man written by himself  
A. Life story  
C. Philosophy  
B. Biography  
D. Autobiography
27. A person who does not believe in the existence of God  
A. Anarchist  
C. Amateur  
B. Atheist  
D. Ascetic
28. People working in the same department or office  
A. Colleagues  
C. Mates  
B. Fellows  
D. Companions
29. A piece of land surrounded by water on all sides  
A. peninsula  
C. island  
B. creek  
D. beach



**Questions No. 30 to 32 :** Read the following passage carefully and answer the questions given below the passage.

Down, down, down went the plane. Uncle Prasad caught hold of the bamboo stick, but the plane started to go round and round in circles, getting lower and lower.

“Oh, dear!” shrieked Uncle Prasad, “what will happen to me now?” ZOOM! Down it went and Uncle Prasad looked below him. He could see a huge lake. The plane was still going round in circles, lower and lower, then suddenly, CRASH!

The plane hit the top of a tree and Uncle Prasad shot high into the air like a bullet from a gun. He landed with a tremendous splash in the lake. Luckily he could swim and he managed to reach the bank, where he found a huge crowd waiting to receive him.

30. Uncle Prasad wanted to remain alive, so he
- A. caught hold of the bar
  - B. switched off the engine
  - C. caught hold of the bamboo stick
  - D. started calling for the help
31. When the plane was going down, it started
- A. rushing like a bullet from the gun
  - B. going with great speed
  - C. going like an arrow from the bow
  - D. going round and round in circles
32. Which pair of words indicates sound and action?
- A. Splash and Zoom
  - B. Zoom and Crash
  - C. Tring and Ding
  - D. Ding and Dong

**Questions No. 33 to 35 :** Read the following conversation carefully and answer the questions given below the passage.

Shopkeeper : Ashok, put your hand in the jar and take as many sweets as you want.

Ashok : No, thank you. You do it.

Shopkeeper : Why? Can't you take the sweets yourself? I'm not going to charge you for it.

Ashok : Yes, I can, but your hand is bigger.

33. What does Ashok refuse to do?
- A. pay for the sweets
  - B. say thanks to the shopkeeper
  - C. take the sweets at all
  - D. put his hand in the jar to take the sweets
34. How could you describe Ashok?
- A. rude
  - B. shy
  - C. clever
  - D. lazy
35. What surprised the shopkeeper?
- A. The fact that Ashok hesitated to take the sweets himself
  - B. The fact that Ashok had a small hand
  - C. The fact that big people have big hands
  - D. The fact that the shopkeeper's hand could hold more sweets



**Questions No. 36 to 38 :** In each of the following questions, there is a sentence of which some parts have been jumbled up. You are required to rearrange these parts which are labeled P, Q, R and S to produce the correct sentence. Choose the proper sequence from the alternatives A, B, C and D.

36. In spite of repeated attempts,
- |                        |                             |
|------------------------|-----------------------------|
| P. what it meant       | Q. in the dictionary        |
| R. he could not locate | S. the strange-looking word |
| A. QRSP                | B. RSPQ                     |
| C. SPQR                | D. PQRS                     |
37. The effectiveness of a film
- |                              |                 |
|------------------------------|-----------------|
| P. the needs of the audience | Q. is judged by |
| R. and by its relation to    | S. its theme    |
| A. PSQR                      | B. QRPS         |
| C. PQRS                      | D. QSRP         |
38. Whenever you feel
- |                        |  |
|------------------------|--|
| P. immediately so that | Q. just write to me                      |
| R. ill at ease         | S. I will give a solution to the problem |
| A. QSRP                | B. PRQS                                  |
| C. RQPS                | D. SQPR                                  |

**Questions No. 39 and 40 :** Read each sentence and find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer.

39. Have you heard the news? (a) / Mukesh and Malathi are (b) / engaged. That is not new, (c) / I know it for ages (d).
- |      |      |
|------|------|
| A. c | B. a |
| C. d | D. b |
40. The receptionist asked me (a)/who do I want (b)/to meet in the office (c)/no error (d)
- |      |      |
|------|------|
| A. d | B. c |
| C. b | D. a |



## General Awareness and Current Affairs

41. Iron nail floats on mercury because
- A. density of iron is greater than that of mercury
  - B. density of iron is less than that of mercury
  - C. density of iron is equal to that of mercury
  - D. none of the above
42. First Chinese pilgrim to visit India was
- A. Huan Tsang
  - B. Fahien
  - C. Itsing
  - D. Chaujukua
43. Thomas Cup is associated with
- A. Tennis
  - B. Badminton
  - C. Volley Ball
  - D. Hockey
44. The headquarters of WHO is at
- A. New York
  - B. Washington
  - C. Geneva
  - D. London
45. Ram Krishna Mission was founded by
- A. Rabindranath Tagore
  - B. Swami Vivekananda
  - C. Swami Dayananda Saraswati
  - D. Ram Mohan Roy
46. India's first experimental satellite launched on April 19, 1975 –
- A. Rohini
  - B. Bhaskara
  - C. Aryabhata
  - D. APPLE
47. The present name of Rhodesia is
- A. Ethiopia
  - B. Republic of Congo
  - C. Namibia
  - D. Zimbabwe
48. The highest gallantry award in India is
- A. Vir Chakra
  - B. Param Vir Chakra
  - C. Bharat Ratna
  - D. Mahavir Chakra
49. \_\_\_\_\_ took oath as the Prime Minister of Bangladesh on 12<sup>th</sup> January, 2014
- A. Malala Yousafzai
  - B. Khalida Zia
  - C. Hina Rabbani
  - D. Sheikh Hasina





60. Founder of first historical empire in India  
 A. Chandra Gupta Maurya                      B. Chandra Gupta  
 C. Ashoka    D. Kanishka
61. Nautical mile is  
 A. less than one Km                              B. approximately equal to one Km  
 C. greater than one Km                          D. None of the above
62. Fundamental duties in Indian constitution was provided by the \_\_\_\_\_ amendment  
 A. 52<sup>nd</sup>    B. 42<sup>nd</sup>  
 C. 56<sup>th</sup>    D. 61<sup>st</sup>
63. Match the cities with the epithets :
- | Column I                      | Column II                     |
|-------------------------------|-------------------------------|
| (i) New York                  | (I) City of seven hills       |
| (ii) Rome                     | (II) Granite city             |
| (iii) Lhasa                   | (III) City of skyscrapers     |
| (iv) Aberdeen                 | (IV) Forbidden city           |
| A. i-II, ii-I, iii-IV, iv-III | B. i-III, ii-IV, iii-I, iv-II |
| C. i-III, ii-I, iii-IV, iv-II | D. i-I, ii-III, iii-IV, iv-II |
64. Match the following : discoverers/inventors with the discoveries/inventions :
- | Column I                      | Column II                     |
|-------------------------------|-------------------------------|
| (i) Gramophone                | (I) Alfred Nobel              |
| (ii) Dynamite                 | (II) Issac Newton             |
| (iii) Dynamo                  | (III) Thomas Alva Edison      |
| (iv) Gravitation              | (IV) Michael Faraday          |
| A. i-III, ii-I, iii-II, iv-IV | B. i-IV, ii-III, iii-I, iv-II |
| C. i-III, ii-I, iii-IV, iv-II | D. i-III, ii-IV, iii-I, iv-II |
65. Vitamin B<sub>6</sub> is known as  
 A. Riboflavin                                      B. Cyanocobalamin  
 C. Thiamine                                        D. Pyridoxine
66. Match the following :
- | Column I                       | Column II                                     |
|--------------------------------|---|
| (i) Pearl harbour              | (I) Nelson                                    |
| (ii) Trafalagar                | (II) Japan's attack on US during World War II |
| (iii) Hiroshima                | (III) Napoleon                                |
| (iv) Waterloo                  | (IV) 1 <sup>st</sup> Atom Bomb dropped        |
| A. i-IV, ii-III, iii- II, iv-I | B. i-IV, ii-I, iii-II, iv-III                 |
| C. i-III, ii-I, iii-IV, iv-II  | D. i-II, ii-I, iii-IV, iv-III                 |

67. As per Tumour Registry Reports, \_\_\_\_\_ has most cases of Child Cancer in the Country  
A. Chennai B. Delhi  
C. Pune D. Kolkata
68. The designer of AK-47 assault rifle who passed away recently was  
A. Michael Gorbachev B. Akhmednabi Akhmednabiev  
C. Mikhail Kalashnikov D. None of the above
69. \_\_\_\_\_ gave India the first World Athletics title in \_\_\_\_\_ in the event held in Monaco in 2005 when the gold medal winner was disqualified by IAAF for doping  
A. P.T. Usha, 400 m B. Krishna Poonia, Discus Throw  
C. Anju Bobby George, Long Jump D. None of the above
70. The batsman who scored the fastest century in ODI is  
A. Shahid Afridi B. Corey Anderson  
C. Sanath Jayasurya D. Virat Kohli
71. Polgar sisters and Bryan brothers are associated with \_\_\_\_\_ and \_\_\_\_\_ respectively.  
A. Tennis, Chess B. Squash, Tennis  
C. Chess, Hockey D. Chess, Tennis
72. Indira Gandhi Prize for Peace, Disarmament and development for 2013 is to be awarded to  
A. M.S. Swaminathan B. Angela Merkel  
C. C.N.R. Rao D. Kaushik Ganguly
73. Government recently cleared a proposal for creation of \_\_\_\_\_ new \_\_\_\_\_ in Govt. Medical colleges.  
A. 10,000, PG seats in Medicine B. 5,000, MBBS seats  
C. 10,000, MBBS seats D. 5,000, PG seats in medicine
74. AAP leader A. Kejriwal was born in Siwani, \_\_\_\_\_  
A. Bihar B. Uttar Pradesh  
C. Madhya Pradesh D. Haryana





## Numerical Aptitude

81. The value of  $y$  is 1.5 times that of  $x$  and six times that of  $z$ . If  $z = -4$ , find the value of  $(3x - 2y + z)^3$ .
- A. 256  
B. -256  
C. -64  
D. 64
82. The difference between the amount at simple interest for 2 years and for 7 years of Rs. 4,000 is Rs. 1,500. Find the rate of interest
- A. 7  
B. 8.5  
C. 8  
D. 7.5
83. A postman walks towards North a distance of 120 m to deliver a letter. He then goes towards East for a distance of 50 m for delivering another letter. The shortest distance between the starting and end points is
- A. 170 m  
B. 70 m  
C. 130 m  
D. 100 m
84. The cost of two articles together is Rs. 2,226; If the cost of one of them is 10 % more than the other, find the cost price of each.
- A. Rs. 1,056, Rs. 1,170  
B. Rs. 1,100, Rs. 1,126  
C. Rs. 1,060, Rs. 1,166  
D. Rs. 1,160, Rs. 1,166
85. The dimensions of a photograph are 4 cm and 1.8 cm. If the breadth of the enlarged photo is 4.5 cm and it was enlarged proportionately then what is the new length of the new photograph?
- A. 6 cm  
B. 5.4 cm  
C. 9 cm  
D. 10 cm
86. The taxi fare in a city is Rs. 25 for the first kilometer and Rs. 10.50 for the next each subsequent kilometre. A traveller was charged Rs. 109 as the fare. How many kilometres did he travel?
- A. 8 Km  
B. 9 Km  
C. 10 Km  
D. None of these
87. A circular wire of radius 42 cm is cut and bent into the form of rectangle whose sides are in the ratio 6:5. The smaller side of the rectangle is
- A. 30 cm  
B. 60 cm  
C. 72 cm  
D. 132 cm
88. If  $n(U) = 100$ ,  $n(A) = 50$ ,  $n(B) = 20$  and  $n(A \cap B) = 10$ , then  $n[(A \cup B)']$  is
- A. 60  
B. 30  
C. 40  
D. None
89. If an article is sold at a gain of 13 % instead of loss of 13%, then the seller gets Rs. 13 more. The cost price of the article is
- A. Rs. 100  
B. Rs. 200  
C. Rs. 65  
D. Rs. 50
90. If  $P$  is the circumference of a circle, then its area is
- A.  $P^2 / 2\pi$   
B.  $P^2 / 4\pi$   
C.  $P^2 / \pi$   
D.  $P^2 / 8\pi$



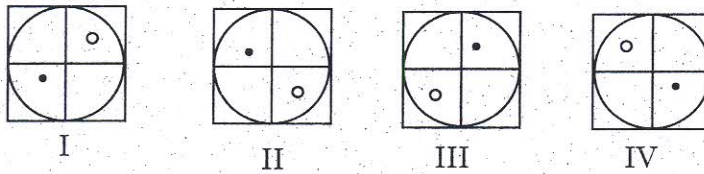






**Questions No. 105 & 106 :** In each of the following questions, there are two sets of figures – problem figure and answer figure. Problem figure form some kind of series. Select the figure from answer figures which will continue in the series

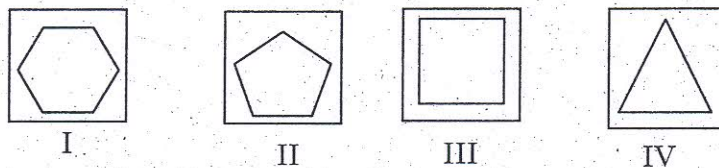
105. Problem figure :



Answer figure:



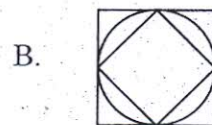
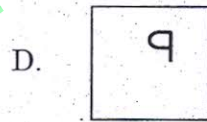
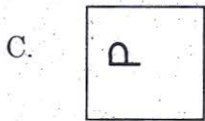
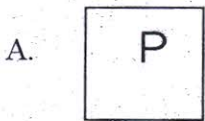
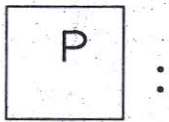
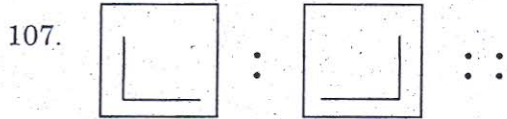
106. Problem figure :



Answer figure:



Questions No. 107 and 108 : In the following questions, there is some relation between first and second figures. The same relation exists between the third figure and question figure. From the alternatives given below, which figure will appear at the place of question mark?





109. A + B means A is the daughter of B;  
A - B means A is the husband of B.  
If P + Q — R, then which of the following is true?
- A. R is the mother of P
  - B. R is the father of P
  - C. R is the aunt of P
  - D. R is the mother-in-law of P

**Questions 110 to 113 :** The six members of a family A, B, C, D, E and F are travelling together. B is the son of C but C is not the mother of B. A and C are married couple. E is the brother of C. D is the daughter of A. F is the brother of B.

110. How many male members are there in the family?
- A. 2
  - B. 4
  - C. 3
  - D. 5
111. Who is the mother of B?
- A. D
  - B. E
  - C. F
  - D. A
112. How many children does A have?
- A. One
  - B. Four
  - C. Three
  - D. Two
113. Which of the following is a pair of females?
- A. AE
  - B. BD
  - C. DF
  - D. AD

Questions No. 114 to 117 : Find the missing term:

114. B, E, H, K, \_\_\_\_\_

- A. O  
B. N  
C. M  
D. P

115. 30, 29, 25, 16, \_\_\_\_\_

- A. -4  
B. 1  
C. 0  
D. 2

116. 720, 120, \_\_\_\_\_, 6, 2

- A. 30  
B. 18  
C. 36  
D. 24

117. 3, 15, 35, 63, \_\_\_\_\_

- A. 81  
B. 90  
C. 99  
D. 108

Questions No. 118 and 119 : There is certain relationship between two words on left side of :: to the words given on the right side of :: Find the word from the given alternatives, having the same relationship as the pair of words on the left side.

118. Paw : Cat :: Hoof : ?

- A. Horse  
B. Lion  
C. Lamb  
D. Elephant

119. Race : Fatigue :: Fast : ?

- A. Food  
B. Fruit  
C. Hunger  
D. Water

120. Five years ago, the ratio of the ages of Yogesh and Mahesh was 4 : 5. The present age of Yogesh is 21 years. What will be the age of Mahesh after 3 years?

- A. 20 years  
B. 25 years  
C. 28 years  
D. 24 years



## Question Booklet Code - ECD

1	C
2	D
3	B
4	C
5	D
6	C
7	B
8	C
9	A
10	B
11	D
12	A
13	B
14	A
15	C
16	D
17	B
18	A
19	C
20	D
21	A
22	B
23	B
24	C
25	B
26	D
27	B
28	A
29	C
30	C
31	D
32	B
33	D
34	C
35	A
36	B
37	D
38	C
39	A
40	C

41	B
42	B
43	B
44	C
45	B
46	C
47	D
48	B
49	D
50	C
51	B
52	C
53	B
54	A
55	D
56	B
57	D
58	B
59	A
60	A
61	C
62	B
63	C
64	C
65	D
66	D
67	A
68	C
69	C
70	B
71	D
72	B
73	C
74	D
75	B
76	D
77	B
78	A
79	C
80	B

81	C
82	D
83	C
84	C
85	D
86	B
87	B
88	C
89	D
90	B
91	A
92	B
93	C
94	A
95	A
96	A
97	C
98	B
99	B
100	D
101	C
102	B
103	C
104	A
105	B
106	D
107	D
108	A
109	A
110	B
111	D
112	C
113	D
114	B
115	C
116	D
117	C
118	A
119	C
120	C

VH  
C  
D  
B  
D