

JMTSETQuestion Booklet Code : **E B 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. **45365**

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

1. 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.
2. Use only the **BLACK/BLUE BALL POINT PEN** that is provided to you to write/mark in the coding sheet.
3. Write your Roll Number in the box above.
4. 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
5. All the questions carry equal marks. One Correct response will be given 1 (One) mark.
6. Negative marks will be there for wrong answers. 0.25 marks will be deducted for each wrong answer.
7. 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.
8. 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.
9. **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.
10. As the coding in the Coding Sheet will be evaluated by a machine, mark the answers carefully.
11. 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.
12. In lieu of questions from 107 to 110, relating to figural portion, additional questions have been provided at the end 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.
13. 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.
14. 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.
15. 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 No. 1 to 3 : 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.

1. 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

2. 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

3. 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. 4 to 6 : 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.

4. 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
5. How could you describe Ashok?
- A. rude
 - B. shy
 - C. clever
 - D. lazy
6. 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. 14 to 16 : 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.

14. 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
15. 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
16. 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 17 and 18 : Find the proper meaning of the proverbs given below :

17. 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
18. 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

19. 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

20. 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

21. A horse _____

- A. bleats
- B. screams
- C. trumpets
- D. neighs

In Questions No. 22 to 29, out of the four alternatives, choose the word which is opposite in meaning to the given word and mark it in the Coding Sheet.

22. Abate

- A. augment
- B. free
- C. wane
- D. provoke

23. Impartial

- A. hostile
- B. dislike
- C. biased
- D. worried

24. Spurious

- A. disingenuous
- B. placid
- C. thoughtless
- D. genuine

25. Placate

- A. enrage
- B. appease
- C. soothe
- D. tremendous

26. Meagre

- A. kind
- B. abundant
- C. thoughtful
- D. scarce

27. Dubious

- A. pleasing
- B. reliable
- C. careful
- D. reckless

28. Dormant

- A. clever
- B. dreamy
- C. active
- D. invisible

29. Evince

- A. hallow
- B. hide
- C. convince
- D. interpret

Questions No. 30 and 31 : 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.

30. 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
31. 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

Questions No. 32 to 35: Find out the one-word substitution from the four options :

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

Questions No. 36 to 40 : Fill in the blanks.

36. _____ part of a tree is useful to us
 A. some B. every
 C. few D. many
37. There were so _____ people on the beach that it looked like a bazaar
 A. many B. few
 C. lots of D. number
38. The gardener takes care _____ the garden
 A. on B. off
 C. of D. for
39. Everyone _____ coming for the party
 A. are B. will
 C. were D. is
40. I bought a notebook _____ twenty rupees
 A. at B. for
 C. with D. by

General Awareness and Current Affairs

41. Indian Standard Time (IST) is
- A. $5\frac{1}{2}$ hours behind GMT
 - B. $5\frac{1}{2}$ hours ahead of GMT
 - C. $7\frac{1}{2}$ hours ahead of GMT
 - D. None of the above
42. 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 st 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
43. Bhakra Nangal Multipurpose project is in the state of _____ across the river _____
- A. Punjab, Sutlej
 - B. Himachal Pradesh, Sutlej
 - C. Punjab, Ravi
 - D. Orissa, Mahanadi
44. Preamble of the Constitution of India starts with
- A. India is my country
 - B. The people of India
 - C. We are Indians
 - D. We, the people of India
45. Mahavira was the last of the Jain teachers called _____
- A. Digambaras
 - B. Tirthankaras
 - C. Svetambaras
 - D. None of the above

46. Deepika Kumari is associated with
A. Wrestling
B. Archery
C. Chess
D. Cricket
47. "The Lowland" is a novel by
A. Vikram Seth
B. Arundhati Roy
C. Jhumpa Lahiri
D. Chetan Bhagat
48. Nobel prize for peace for the year 2013 goes to
A. OPEC
B. OPCW
C. OSCE
D. OECD
49. The other person who will be conferred with Bharat Ratna along with Sachin Tendulkar is
A. C.N.R. Rao
B. R.P.N. Rao
C. Y.V. Rao
D. M. Rao
50. The Indian diplomat in USA who was in news recently is
A. Nirupama Rao
B. Sujatha Singh
C. Devyani Rajakumaran
D. Devyani Khobragade
51. Doctrine of Lapse was introduced by
A. Lord Dalhousie
B. Lord Cornwallis
C. Lord Wellesley
D. Lord Rippon
52. Founder of first historical empire in India
A. Chandra Gupta Maurya
B. Chandra Gupta
C. Ashoka
D. Kanishka
53. Nautical mile is
A. less than one Km
B. approximately equal to one Km
C. greater than one Km
D. None of the above
54. Fundamental duties in Indian constitution was provided by the _____ amendment
A. 52nd
B. 42nd
C. 56th
D. 61st

55. 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 | |

56. 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 | |

57. Vitamin B₆ is known as

- | | |
|---------------|-------------------|
| A. Riboflavin | B. Cyanocobalamin |
| C. Thiamine | D. Pyridoxine |

58. 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

59. First Chinese pilgrim to visit India was

- | | |
|---------------|--------------|
| A. Huan Tsang | B. Fahien |
| C. Itsing | D. Chaujukua |

60. Thomas Cup is associated with
A. Tennis
B. Badminton
C. Volley Ball
D. Hockey
61. E. Sreedharan is the former Managing Director of
A. IOC
B. DMRC
C. HDFC
D. IDBI
62. Mangalyaan is a Mission by ISRO to
A. Moon
B. Venus
C. Mercury
D. Mars
63. Usha Ananthasubramanian is the Head of
A. Bank of Baroda
B. Bhartiya Mahila Bank
C. State Bank of India
D. Indian Bank
64. The Pakistani girl shot in head by talibans for advocating girl education last year is
A. Malala Yousafzai
B. Hamida Bhano
C. Hina Rabbani
D. None of the above
65. Sachin Tendulkar played his 200th Test match in _____ Stadium
A. Brabourne
B. D.Y. Patil
C. Wankhede
D. None of the above
66. The batsman who scored the fastest century in ODI is
A. Shahid Afridi
B. Corey Anderson
C. Sanath Jayasurya
D. Virat Kohli
67. Polgar sisters and Bryan brothers are associated with _____ and _____ respectively.
A. Tennis, Chess
B. Squash, Tennis
C. Chess, Hockey
D. Chess, Tennis
68. 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

69. 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
70. AAP leader A. Kejriwal was born in Siwani, _____
- A. Bihar
 - B. Uttar Pradesh
 - C. Madhya Pradesh
 - D. Haryana
71. The headquarters of WHO is at _____
- A. New York
 - B. Washington
 - C. Geneva
 - D. London
72. Ram Krishna Mission was founded by _____
- A. Rabindranath Tagore
 - B. Swami Vivekananda
 - C. Swami Dayananda Saraswati
 - D. Ram Mohan Roy
73. India's first experimental satellite launched on April 19, 1975 –
- A. Rohini
 - B. Bhaskara
 - C. Aryabhata
 - D. APPLE
74. The present name of Rhodesia is _____
- A. Ethiopia
 - B. Republic of Congo
 - C. Namibia
 - D. Zimbabwe
75. The highest gallantry award in India is _____
- A. Vir Chakra
 - B. Param Vir Chakra
 - C. Bharat Ratna
 - D. Mahavir Chakra

Numerical Aptitude

81. 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
82. 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
83. 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
84. 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
85. $7^{(x-5)} = (343)^2$. Find the value of x .
- A. 1 B. 11
C. 2 D. 10
86. A rectangle has its length 9 times its width. What is the ratio of its perimeter to the perimeter of the square of the same area?
- A. 4:3 B. 3:2
C. 5:4 D. 5:3
87. 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
88. 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
89. 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 / π D. $P^2 / 8\pi$
90. A metallic sphere of radius 3 cm is melted and recast into spherical balls of radius 0.6 cm. The number of balls that can be made is
- A. 125 B. 100
C. 250 D. 150

91. Ram had a rope of length 504 m and he cut it equally at eight places. He sold the cut pieces at the rate of Rs. 25 per piece. How much he earned?
A. Rs. 200
B. Rs. 225
C. Rs. 175
D. Rs. 250
92. In a garden, there were two rows of trees at equal spacing and there was one rose plant between two trees. There were twenty five roses in each row. How many trees were there in the garden?
A. 50
B. 25
C. 52
D. 26
93. The product of two positive numbers is 120 and the sum of their squares is 289. The difference between them is
A. 7
B. 14
C. 2
D. 3.5
94. Prabu scored 519 marks in an examination. If his percentage of marks was 86.5 %, what were the maximum marks in the examination?
A. 600
B. 700
C. 800
D. 900
95. If $\sqrt{\frac{x+1}{x-1}} = 3$, then $x = ?$
A. $\frac{5}{4}$
B. $\frac{4}{5}$
C. 2
D. $\frac{1}{2}$
96. A train 250 metres long crosses a pole in 12 seconds. What was the speed of the train in Km/hr?
A. 25
B. 135
C. 75
D. 72
97. A dishonest shopkeeper uses a false weight of 800 gms in place of 1 kg and sells his goods at the cost price. What is his percentage gain?
A. 10% gain
B. 25% gain
C. 20% gain
D. 40% gain
98. 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
99. 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
100. 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

General Intelligence and Reasoning

101. P and Q represent numbers and $P * Q = (P + Q)/2$, what is the value of $3 * (6 * 8)$?

- A. 5
B. 6
C. 3
D. 2

Questions No. 102 to 106 : Find the missing term:

102. B, E, H, K, _____

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

103. 30, 29, 25, 16, _____

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

104. 720, 120, _____, 6, 2

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

105. 3, 15, 35, 63, _____

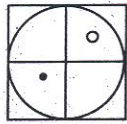
- A. 81
B. 90
C. 99
D. 108

106. 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?

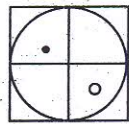
- A. 20 years
B. 25 years
C. 28 years
D. 24 years

Questions No. 107 & 108 : 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

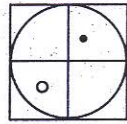
107. Problem figure:



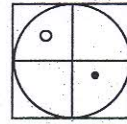
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II

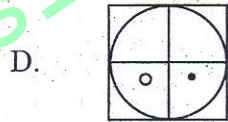
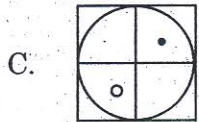
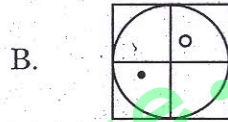
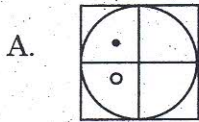


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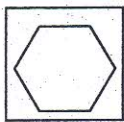


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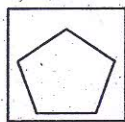
Answer figure:



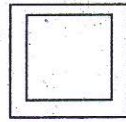
108. Problem figure:



I



II

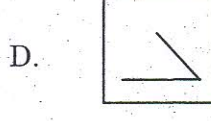
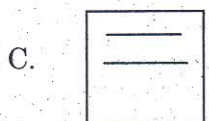
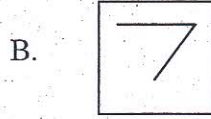
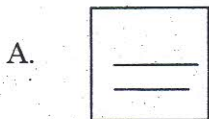


III



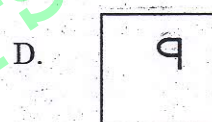
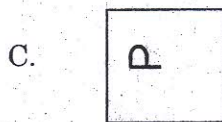
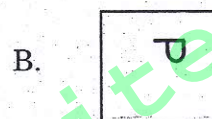
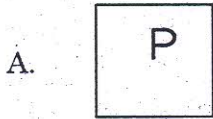
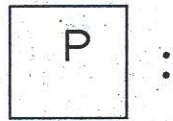
IV

Answer figure:

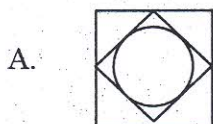
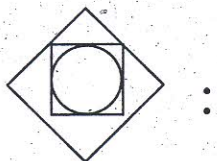


Questions No. 109 and 110 : In the following questions, there is some relation between first and second figures. The same relation exists between the third figure and question figure. From the alternatives given below, which figure will appear at the place of question mark?

109.



110.



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Additional Questions for Visually handicapped students instead of Questions No. 107 to 110 :

[Non-VH candidates should not attempt these questions]

Questions No. 107 and 108 : There is certain relationship between two words given below and choose the best set of words given in the options which exhibit the same relationship:

107. horse : centaur

A. stable : barn

B. decade : century

C. fish : mermaid

D. pig : sty

108. water: hydraulic

A. energy : atomic power

B. power : electricity

C. gasoline : combustion

D. air : pneumatic

109. Complete the following series:

ab _ _ abb _ ab _ a

A. abba

B. baab

C. baba

D. abab

110. Find the odd term in the following series:

A. 9819

B. 7497

C. 6366

D. 5205

111. 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

Question Booklet Code - EBD

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

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

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

VH
C
D
B
D