

VTS EXAMINATION 2016 -17
PRELIMINARY QUESTION PAPER

Class : X

10

Register No :

Score : 400
Time : 2 hrs

General Instructions

1. Candidates are supplied with an OMR Answer Sheet.
 2. Answer the questions in the OMR Sheet by shading the appropriate bubble.
 3. Shade the bubbles with black ball point pen.
 4. Each question carries four marks. One mark will be deducted for each wrong answer.
 5. Use the space provided in the last page for rough work.
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I. Read the passage and answer the questions below.

For two months, I have been trying to decide who makes the best ice cream. I have narrowed it down to my four favorite manufacturers. Randolph farms Goodies, Disco and Twinkle.

Let's start with Randolph farms. Randolph farms makes very good ice cream. They have lots of different flavours, but this doesn't really matter to me. That's because I always get coffee flavour. They make the best coffee ice cream in the world. I've never had hot coffee but people tell me that Randolph farms coffee ice cream tastes just like the real thing. Also, Randolph farms uses all natural ingredients to make their ice cream. This is a good idea, I think.

Second, we have Goodies. Goodies makes excellent ice cream. Like Randolph farms, Goodies uses all natural ingredients. They only make three different flavours – strawberry, vanilla and chocolate. But they make them very well. The strawberry is amazing. Every bite of it reminds me of the strawberries that I used to pick behind my old house. The vanilla is wonderful. It is very smooth and has a refreshing, creamy taste. The chocolate is outstanding. It is made with real cocoa beans from Bolivia. I didn't know where Bolivia is so I decided to look for it on a map. After hunting a while, I discovered that it is in South America! That's a long way to go to get cocoa, so it must be good. I would say that the only drawback to Goodies ice cream is that they only make three different flavours.

Third, we have Disco. Disco ice cream is okay. They don't have many good flavours. Actually, the only Disco flavour I like is bubblegum. It is vanilla ice cream with little chunks of bubblegum in it. After you eat the ice cream, you blow bubbles with the gum. That's pretty fun.

Finally, there is Twinkle. Twinkle ice cream is mediocre. The only good thing about Twinkle is that it is relatively inexpensive. You can buy a whole carton of Twinkle ice cream for \$4.50. That's only two weeks' allowance for me.

1. If the author wanted to get a scoop of coffee ice cream, where would he or she probably go?
 - A. Randolph farms
 - B. Goodies
 - C. Disco
 - D. Twinkle

2. Which of the following statements would the author most likely agree with?
- A. Each manufacturer has its strengths and weaknesses
 B. The best manufacturers are the ones with the most flavours
 C. Goodies is certainly not the best manufacturer, as they only have three flavours
 D. Each manufacturer is good for different reasons
3. An adjective is a word that is used to describe a thing. Which of the following are adjectives used in paragraph 3?
- I) Flavours II) Excellent III) Old
- A. I only B. I and II only
 C. II and III only D. I, II and III
4. “That’s a long way to go to get cocoa, so it must be good”. Using this information, we can understand that the author believes that
- A. Goodies loses money on sales of chocolate ice cream.
 B. Bolivia makes the best cocoa in the world.
 C. Things that are hard to get must be of high quality.
 D. Cocoa from the United States is not very good.
5. Write the indirect speech. “Have you read this book?”
- A. He asked if I had read the book B. He asked if I have read the book
 C. He asked whether he had read the book D. He asked have I read the book
6. Rewrite the given in passive voice.
- They don’t help you
- A. You won’t be helped by them B. You will not be helped by them
 C. You don’t be helped by them D. You are not helped by them
7. The medicine has relieved him his pain
- A. In B. Of
 C. With D. Over
8. Jane and I want to up smoking
- A. Put B. Give
 C. Pick D. Hurry

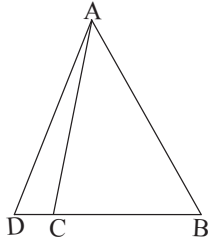
9. Find out the wrongly spelt word
- A. Assassination B. Occasion
C. Acquitted D. Privilage
10. The opposite of 'sacred' is
- A. Spiritual B. Pious
C. Religious D. Profane
11. The age of mother is twice that of the elder daughter. 10 years hence the age of mother will be 3 times that of the younger daughter. If the difference of ages of the two daughters is 15 years, the age of the mother is
- A. 100 years B. 70 years
C. 60 years D. 50 years
12. The value of $x^2 - 6x + 13$ can never be less than
- A. 4 B. 5
C. 4.5 D. 7
13. A number when divided by 289 leaves remainder 18. If the same number is divided by 17, leaves remainder
- A. 16 B. 1
C. 9 D. 10
14. 40 % of a number is added to 120; then the result is double of the number. What is the number ?
- A. 100 B. 240
C. 150 D. 75
15. Two numbers are in the ratio 3:4. If their HCF is 4, their LCM is
- A. 46 B. 24
C. 12 D. 48
16. A vertical post 15 feet high is broken at a certain height and its upper part not completely seperated meets the ground at an angle of 30° . Then the height at which the post is broken is
- A. 10 feet B. 5 feet
C. $8\sqrt{3}$ feet D. $6\sqrt{2}$ feet
17. The average of 17 numbers is 45. The average of first nine of these numbers is 51 and last nine of these numbers is 36. What is the ninth number ?
- A. 22 B. 9
C. 14 D. 18

18. P and Q are the midpoints of sides AB and BC respectively of the ΔABC , right angled at B.

Then

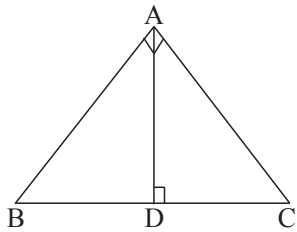
- A. $AQ^2 + CP^2 = AC^2$ B. $AQ^2 + CP^2 = \frac{4}{5}AC^2$
 C. $AQ^2 + CP^2 = \frac{5}{4}AC^2$ D. $AQ^2 + CP^2 = \frac{3}{4}AC^2$

19. In the diagram $AB=AC$ and $\angle BAC=40^\circ$. Find the sum of $\angle ADC$ and $\angle DAC$



- A. 55° B. 65°
 C. 70° D. 60°

20. In the figure, $\angle BAC=90^\circ$ and $AD \perp BC$, then



- A. $BD \times CD = BC^2$ B. $AB \times AC = BC^2$
 C. $BD \times CD = AD^2$ D. $AB \times AC = AD^2$

21. According to Ohms law, which is correct ?

- A. $V = IR$ B. $V = R/I$
 C. $V = I^2/R$ D. $V = R^2/I$

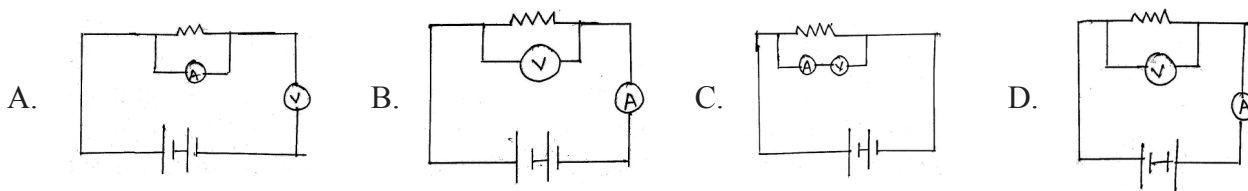
22. An electric bulb is connected to 220V generator. The current is 0.50A. What is the power of the bulb ?

- A. 110 W B. 11 W
 C. 0.110 W D. 1.1 W

23. The potential difference between the terminals of an electric heater is 60V, when it draws a current of 4 A from the source. What current will the heater draw if the potential difference is increased to 120 V ?

- A. 0.8 A B. 8 A
 C. 80 A D. 0.008 A

24. Which circuit diagram is correct ?



25. Which of the following non-metal is a liquid ?

- A. Carbon
- B. Bromine
- C. Iodine
- D. Sulphur

26. Which of the following method is suitable for preventing an iron pipe from rusting ?

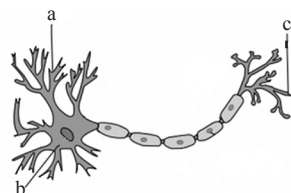
- A. Applying grease
- B. Applying paint
- C. Applying a coating of Zn
- D. All of the above

27. Which of the following are not ionic compounds ?

- (i) CaCl_2
- (ii) HCl
- (iii) CCl_4
- (iv) NaCl

- A. (i) and (ii)
- B. (ii) and (iii)
- C. (iii) and (iv)
- D. (i) and (iii)

28. Identify the correct parts of a neuron.



- A. (a) Dendrite (b) Cyton (c) Axon terminal
- B. (a) Cyton (b) Dendrite (c) Axon terminal
- C. (a) Dendrite (b) Axon terminal (c) Cyton
- D. (a) Dendrite (b) Cyton (c) Myelinated sheath

29. The filtration units of Kidneys are called

- A. Ureter
- B. Urethra
- C. Neurons
- D. Nephrons

30. Fruit ripening is caused by

- A. Auxin
- B. Gibberellin
- C. Ethylene
- D. Cytokinin

31. Which code took away the privileges enjoyed by the members of First Estate and Second Estate in France ?
- A. Civil code of 1803 B. Civil code of 1805
C. Civil code of 1804 D. Civil code of 1806
32. Who among the following was a republican?
- A. Cavour B. Otto Von Bismark
C. Louis Philippe D. Ginseppe Massini
33. Which among the following is not a Balkan Country?
- A. Greece B. Albania
C. Macedonia D. Austria
34. Which state is the largest producer of ragi?
- A. Karnataka B. Tamil Nadu
C. Madhya Pradesh D. Chattisgarh
35. Who proclaimed dam as the temples of modern India ?
- A. Jawaharlal Nehru B. Mahathma Gandhi
C. Rajiv Gandhi D. Subash Chandra Bose
36. Which port was developed as a subsidiary port in order to relieve the growing pressure on the Kolkata port ?
- A. Haldia B. Paradip
C. Kandla D. Tuticorin
37. Who supervises the functioning of the formal sources of credit in banks ?
- A. Government of India B. Reserve Bank of India
C. Ministry of Finance D. State Bank of India
38. What is the most common route for investments by MNC's in countries around the world ?
- A. Set up new factories B. Buy existing local companies
C. Form partnerships with local companies D. All the above

39. What is the aim of feminist movement?
- A. Equality with men B. Equality with women
C. Equality with law D. None of these
40. Which one of the following statements is correct with regard to the growth of Communalism in India ?
- A. Political Parties appeal to the religious sentiments of citizens
B. Indian Constitution guaranteed right to freedom of religion to every citizen
C. Election Commission declared ban on the use of religious places for election campaign
D. Indian Constitution declares that India is a secular country.
41. Who is the Railway Minister of India ?
- A. Arun Jaitely B. Suresh Prabhu C. Sushama Swaraj D. Natwar Singh
42. Who won the Vayalar Award in 2015 ?
- A. K. R. Meera B. Subash Chandran C. Sara Joseph D. Sugatha Kumari
43. Name the person who has been appointed as the permanent representative of India to the United Nations ?
- A. Navtej Sarna B. Shivshankar Menon C. Vikas Swaroop D. Syed Akbaruddin
44. The first Union Education Minister of India
- A. Joseph Mundassery B. S.B. Chawan
C. Moulana Abdul Kalam Azad D. Dr. Radha Krishnan
45. What is the maximum age for the retirement of a Judge of Supreme Court ?
- A. 65 B. 62 C. 60 D. 68
46. NPC stands for
- A. National Political Conference B. National Political Council
C. National Productivity Committee D. National Productivity Council
47. 'A' in ASLV stands for
- A. Automatic B. Atomic C. Augmented D. Army

48. Samuel Colt invented
- A. Camera B. Revolver C. Rocket D. Safety Razor
49. The Present Prime Minister of Britain
- A. Theresa May B. Vladimir Putin C. David Cameron D. Higgins
50. Who is the principal scientific adviser to the Govt of India ?
- A. R. Chidambaram B. C.N.R. Rao C. Kasturi Rangan D. P.T. Thomas
51. Who gave the slogan 'Inquilab Zindabad' ?
- A. Udham Singh B. Muhammed Iqbal C. Bhagat Singh D. Mangal Pandey
52. Which freedom fighter wrote the book 'Broken Wings' ?
- A. Vijayalakshmi Pandit B. Muhammed Iqbal
- C. Jawaharlal Nehru D. Sarojini Naidu
53. Name the capital of Serbia.
- A. Madrid B. Kiev C. Belgrade D. Hanoi
54. Where is the 'Seas Tower' situated ?
- A. Chicago B. London C. Paris D. France
55. Where is Adams Bridge ?
- A. Between India & China B. Between India & Pakistan
- C. Between India & Srilanka D. Between India & Afghanistan
56. Who won 2016 Australian Open Men's Singles title of tennis ?
- A. Andy Murray B. Novak Djokovic C. Roy Emerson D. None of these
57. Which of the following terms is used in the game of cricket ?
- A. Dribble B. Corner C. Silly Point D. Grand Slam
58. How many symbols are present in '8 bit code' ?
- A. 216 B. 286 C. 256 D. 252
59. Where was first computer reservation system in India started ?
- A. Delhi B. Bangaluru C. Hyderabad D. Mumbai

71. PST:01::NPR: ?

A. 3

B. 4

C. 1

D. 7

Direction (Q.Nos.72-75): Study the following information to answer the questions. Eight friends A,B,C,D,E,F,G and H are sitting around a circle facing the centre. D is between A and E only .F is second to the left of E. B is between C and G only .F is between G and H only.

72. Who is 4th to the right of B ?

A. H

B. D

C. A

D. none of these

73. In which of the following pairs ,second person is to the immediate left of the first person ?

A. H,E

B. D,A

C. B,G

D. B,C

74. Which of the following is definitely true?

A. D is second to the left of H

B. A is second to the right of E

C. C is to the immediate right of B

D. E is to the immediate left of C.

75. Who is the immediate left of E ?

A. D

B. A

C. H

D. F

76. 1,6,15,?,45,66,91

A. 25

B. 26

C. 27

D. 28

77. I was facing east from where I turned to my left and walked 12 ft ,then I turned towards right and walked 6ft .After that I walked 6 ft in south direction and at last I walked 6ft in the west. Then ,in which direction am I standing from the starting point ?

A. West

B. East

C. South

D. North

Direction (Qn Nos 78-82): In each of the questions below are given three statements followed by two conclusions numbered I and II . You have to take the given statements to be true even if they seem to be at variance from commonly known fact and decide which of the given conclusion(s) logically follow(s) from the three given statements.

A. If only conclusion II follows

B. If either conclusion I or II follows

C. If neither conclusion I nor II follows

D. If both conclusions I and II follow

78. Statements: All desks are benches
No bench is a chair.
All chairs are roads.

Conclusions I Some roads are chairs
II No chair is a desk

79. Statements : All pens are jungles
All needles are jungles
All boys are jungles.

Conclusions I Some needles are pens.
II Some boys are pens.

80. Statements : All stones are tents.
Some tents are stones.
All stones are walls .

Conclusions I Some walls are stones
II Some walls are tents .

81. Statements: No table is wood
Some woods are chairs
All chairs are stones

Conclusions I No stone is a table
II Some stones are woods .

82. Statements : Some fruits are mangoes.
Some mangoes are red.
All red are vegetables .

Conclusions I No fruit is red
II Some fruits are red .

83. If Tuesday falls 3 day after today ,then what day of the week was it on 4 days before yesterday ?

- A. Monday B. Tuesday
C. Wednesday D. Sunday

84. What was the day on 1st January 1901 ?

- A. Monday B. Wednesday
C. Sunday D. Tuesday

Direction (Q:Nos 85-89): Each of the following questions below consist of a question and two statemetnts numbered I and II given below it . You have to decide whether the data provided in the statements are sufficient to answer the questions.

Give answers

A. If the data in statement I alone are sufficient to answer the questions. while the data in statement II alone are not sufficient to answer the questions

B. If the data either in statement I alone or statement II alone are sufficient to answer .

C. I If the data in both the statements I and II together are not sufficient to answer the question

D. If the data in both the statements I and II together are necessary to answer the question

85. How will ‘must’ be written in a certain code ?

I. In that code language ‘ you must see’ is writen as ‘la pa ni’and ‘did you see’ is written as ‘jo ni pa’ .

II. In that code language ‘you did that ‘is written as ‘pa si jo’.

86. What is the code ‘fat’ in a certain code language ?

I. In that code language ‘she is fat’ is writen as ‘he ra ca’ .

II. In that code language ‘fat boy’ is written as ‘ra ka’

87. How is ‘call’ written in a certain code language?

I. ‘call me back’ is writen as ‘531’ in that code language.

II. ‘you can call me any time’ is written as’ 94163’ in that code.

88. If 'over and above' is written as 'ja na ta' in a code language, how is 'and' written in that code language ?

I. 'come and go' is written as 'ha la ja' in that code language.

II. 'he and you' is written as 'da ja ma' in that code language.

89. What does '\$' mean in a certain code language?

I. '\$#3' means 'flowers are really good'

II. '#35' means 'good flowers are available'

Direction (Q: Nos 90-94): Read the following information carefully to answer the questions given below

There are six soccer teams A,B,C,D,E,and F in the soccer league game .All the six teams play each Saturday during the session . Each team must play against each of the other team once and only once during the seasons .

a) Team A plays against team D 1st and team F 2nd .

b) Team B plays against team E 1st and team C 3rd

c) Team C plays against team F 1st

90. On 1st Saturday ,which of the following pairs of teams play against each other ?

A. A & B,C & F, D & E

B. A & B, C & E, D & F

C. A & C, B & E, D & F

D. None of these

91. Which of the following team must B play second with ?

A. A

B. C

C. D

D. Either A or D

92. What is the total number of games that each team must play during the season ?

A. 2

B. 5

C. 3

D. 4

93. If D wins 5 games ,which of the following must be true ?

A. A loses 5 games

B. B wins 5 games

C. A wins its first game

D. B loses at least 1 game.

94. The last set of games could be between

A. A & B, C & F, D & E

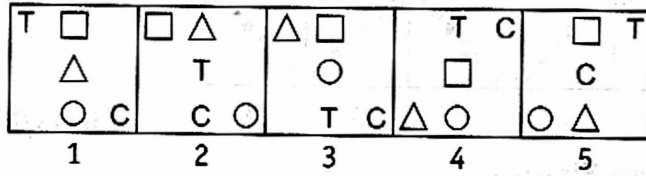
B. A & C, B & F, D & E

C. A & D, B & C, E & F

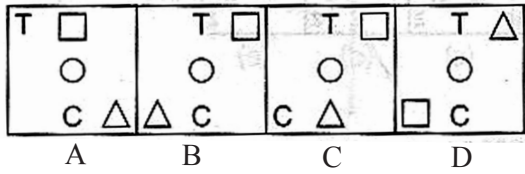
D. none of these

Directions (Q.Nos 95-98): Each of the questions consists of five figures marked 1,2,3,4 and 5 named as the problem figures and is followed by five answer figures marked A, B, C, D. Select a figure from the answer figures which will continue the series as established by the five problem figures.

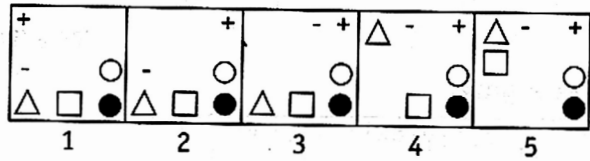
95. Problem Figures.



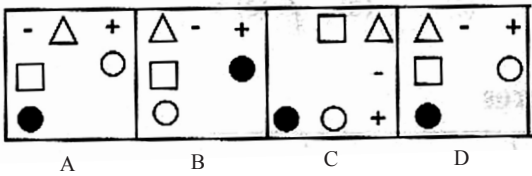
Answer figures



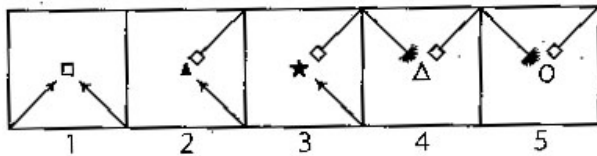
96. Problem Figures.



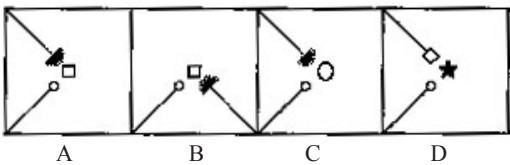
Answer figures



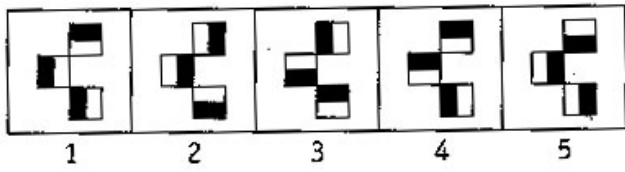
97. Problem Figures.



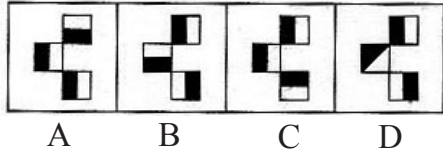
Answer figures



98. Problem Figures.



Answer figures



99.

10	12	16
5	6	8
7	8	9
43	64	?

A. 89

B. 119

C. 129

D. 135

100.

8	9	10
12	14	12
16	18	18
12	13	?

A. 16

B. 18

C. 21

D. 28

Space for rough works

