

# VTS EXAMINATION 2016 - 17

Class : IX

PRELIMINARY QUESTION PAPER

9

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.

### I. Read the following passage and answer the following questions.

The oldest stone builds in the world are the pyramids of Egypt. They have stood for nearly 5000 years, and it seems likely that they will continue to stand for thousands of years yet. The most famous of these are the 'Step pyramid' and the 'Bent pyramid'.

Some of the pyramids still look the same as when they were built thousands of years ago. Most of the damage suffered by the others has been at the hands of men who were looking for treasure or, more often for stone to use in modern buildings.

Certain rules had to be followed strictly and certain problems overcome while pyramids were erected. The pyramid had to be on the west side of the Nile where the sun sets. This was for religious reasons. It had to stand well above the level of the river to protect it against regular floods. It was built close to the Nile as stones for it had to be carried in boats down the river. Water transport was easier than land transport.

1. The first two lines in the passage tell us that the writer was .....  
A. Shocked                      B. Pessimistic                      C. Awe-struck                      D. Desperate
2. The maximum damage caused to the pyramids was due to .....  
A. Men looking for treasure                      B. Their being thousands of years old  
C. Dry climate                      D. Shape
3. The pyramid had to be on the west side of the Nile as.....  
A. The eastern bank was flooded                      B. Stone were only on the western side  
C. The Egyptians worshipped the setting sun                      D. To be easy for transportation
4. Word in the passage which means 'stringently' is .....  
A. Religions                      B. Scattered                      C. Strictly                      D. Overcome
5. 'Will you listen to me?' asked his mother. Turn to indirect speech.  
A. His mother asked him if he would listen to her  
B. His mother asked that he would listen to him  
C. His mother told him if he would listen to her  
D. None of the above
6. Which among the following is in passive ?  
A. Kid has served dinner                      B. Kid served dinner  
C. Dinner has been served by the kid                      D. Kid was serving dinner
7. I ..... (work) for big companies like this before. I know how they operate  
A. Work                      B. Have worked                      C. Must work                      D. Working
8. Fill ..... the forms, please.  
A. In                      B. Across                      C. Up                      D. Off

9. Which of the following is correctly spelt ?  
 A. Wierd                      B. Wiard                      C. Weird                      D. Veird
10. Which of the following is the antonym of 'acquit' ?  
 A. Condemn                      B. Quit                      C. Convict                      D. Sentence
11. Time in a clock is 8.40. Then the angle between hour hand and the minute hand is  
 A.  $20^\circ$                       B.  $10^\circ$                       C.  $130^\circ$                       D.  $80^\circ$
12. Which of the following needs a proof ?  
 A. Theorem                      B. Axiom                      C. Definition                      D. Postulate
13. The area of an equilateral triangle is  $16\sqrt{3}$  m<sup>2</sup>. It's Perimeter is  
 A. 24 m                      B. 12 m                      C. 306 m                      D. 48 m
14. Which number is the biggest among  $3\sqrt{7}$ ,  $2\sqrt{20}$ ,  $4\sqrt{5}$  and  $6\sqrt{3}$  ?  
 A.  $2\sqrt{20}$                       B.  $3\sqrt{7}$                       C.  $4\sqrt{5}$                       D.  $6\sqrt{3}$
15. If  $\sqrt{5} = 2.24$  and  $\sqrt{6} = 2.45$ , the value of  $\sqrt{\frac{2}{3}} + \sqrt{\frac{5}{6}}$  is  
 A. 1.37                      B. 1.57                      C. 1.73                      D. 1.75
16. Two pipes fill a tank in 10 hours and 12 hours respectively, while a third pipe empties the tank in 20 hours. If all the three pipes are opened simultaneously, in how much time will the tank be filled ?  
 A. 7 hrs 45 min                      B. 7 hrs 30 min                      C. 7hrs 40 min                      D. 7 hrs 50 min
17. If  $x + \frac{1}{x} = 1$ , then the value of  $x^3 + \frac{1}{x^3}$  is .....  
 A. 1                      B. -1                      C. 2                      D. -2
18. (P-a) (P-b) (P-c) ..... (P-z) is .....  
 A. 1                      B.  $P^{26} - (a+b+c+\dots+z)$                       C. 0                      D. Cannot be determined
19.  $\frac{(3.06)^3 - (1.98)^3}{(3.06)^2 + 3.06 \times 1.98 + (1.98)^2}$  is equal to  
 A. 1.92                      B. 2.16                      C. 5.04                      D. 1.08
20. A can do a work in 12 days. B is 50% more efficient than A. In how many days B will finish the work ?  
 A. 6                      B. 4                      C. 9                      D. 8
21. Recoiling of gun is based on  
 A. I Law of Motion                      B. II Law of Motion                      C. III Law of Motion                      D. Archimedes Principle
22. The area under velocity- time graph gives  
 A. Distance                      B. Speed                      C. Velocity                      D. Mass
23. A car accelerates uniformly from 18 km/hr to 36 km/hr in 5 second. Calculate acceleration  
 A.  $2 \text{ m/s}^2$                       B.  $3 \text{ m/s}^2$                       C.  $1 \text{ m/s}^2$                       D.  $5 \text{ m/s}^2$
24. An object weighs 10 N when measured on the surface of earth. What would be its weight when measured on the surface of moon ?  
 A. 1.37 N                      B. 1.97 N                      C. 1.67 N                      D. 1.47 N

25. If the temperature of an object is 268 K, it will be equivalent to:  
 A.  $-5^{\circ}\text{C}$                       B.  $5^{\circ}\text{C}$                       C.  $368^{\circ}\text{C}$                       D.  $-25^{\circ}\text{C}$
26. Which of the following statement is correct ?  
 A. Air is a compound containing 21% oxygen                      B. Blood is a compound  
 C. Mercury is an element                      D. Milk is a homogeneous mixture
27. Which one of the following set of phenomena would increase on raising the temperature?  
 A. Diffusion, evaporation, compression of gases  
 B. Evaporation, compression of gases, solubility  
 C. Evaporation, diffusion, expansion of gases  
 D. Evaporation, solubility, diffusion, compression of gases
28. Nervous tissue is not found in  
 A. Brain                      B. Spinal cord                      C. Tendons                      D. Nerves
29. The muscular tissue which functions throughout the life continuously without fatigue is .....
- A. Skeletal muscle    B. Cardiac muscle    C. Smooth muscle    D. Voluntary muscle
30. A nail is inserted in the trunk of a tree at a height of 1 meter from the ground level. after 3 years, the nail will  
 A. Remain at the same portion                      B. Move downward  
 C. Move upward                      D. None
31. Which of the following is correctly matched in relation with Fuedelim and Nation States ?  
 A. Mahadandanayaka - Head of army  
 B. Iqta system                      - Feudum  
 C. Mansab                      - Zat and Sawar  
 D. Jacquerie Revolt                      - Rome
32. After the death of Lenin who led the Communist Party and government in Russia ?  
 A. Joseph Stalin                      B. Mao-Tse-Tung                      C. Leon Trotsky                      D. Alexander Kerensky
33. Consider the following statements about the Russian Revolution.  
 i) Big land lords, called the 'Kulaks' harassed the peasants greatly  
 ii) The emperor Nicholas II agreed to constitute the parliament called 'Duma'  
 Which of the above statement is correct?  
 A. i only                      B. ii only                      C. both i and ii                      D. neither i nor ii
34. Which of the following is incorrect with regard to Tropical Rain Forests ?  
 A. These forests are restricted to heavy rainfall areas  
 B. The trees reach great heights up to 60 metres or even above  
 C. These are peculiar plant species that grow in saline soil  
 D. Some of the commercially important trees of this forest are ebony, rose wood etc....
35. Name any two states which have more than 80% of area under forest  
 A. Nagaland and Meghalaya                      B. Nagaland and Mizoram  
 C. Punjab and Haryana                      D. Arunachal Pradesh and Goa
36. The highest peak in the Eastern Ghats is referred to as  
 A. Anai Mudi                      B. Kanchenjunga                      C. Mahendragiri                      D. Khasi
37. Odd one out  
 A. National Rural Employment Guarantee Act                      B. Prime Minister RozgarYozana  
 C. KOODU                      D. Total Sanitation Mission

38. "Let everybody study, let everybody grow" is related to:  
 A. District Primary Education Programme      B. Operation Black Board  
 C. Sarva Shiksha Abhiyan      D. Rashtriya Madhyamik Shiksha Abhiyan
39. Which of the following is not correctly matched ?  
 A. Republic-Head of the State is an elected person  
 B. Secularism-People have the supreme right to make decisions  
 C. Socialism- Ensures equal rights to all citizen of the country  
 D. Democracy - Rulers are elected by the people
40. Who presides over the meetings of the cabinet?  
 A. President      B. Lok Sabha Speaker      C. Prime Minister      D. Vice President
41. Who among the following won the Magsaysay Award of 2015 ?  
 A. Sanjiv Chaturvedi      B. J. Manjula      C. Nek Chand      D. Rajeev Meharshi
42. National Rural Employment Guarantee Programme was renamed as  
 A. Jawaharlal Nehru Rural Employment Guarantee Scheme  
 B. Mahatma Gandhi National Rural Employment Guarantee Scheme  
 C. Narendra Modi National Rural Employment Guarantee Scheme.  
 D. None of the above
43. The 48<sup>th</sup> meeting of ASEAN was held at .....
- A. Thaiwan      B. Kuala Lumpur      C. Jakartha      D. None of the above
44. Who among the following is the present Human Resource Development Minister of India ?  
 A. Rajnath Singh      B. Prakash Javadekar      C. Smrithi Irani      D. None of the above
45. Who is the present Chief Justice of High Court of Kerala ?  
 A. Ashok Bhushan      B. Manjula Chelloor  
 C. Mohan Shantagoudar      D. None of these
46. What does the abbreviation, SARS stand for ?  
 A. Severe Acute Respiratory Syndrome      B. Slow Acute Respiratory Syndrome  
 C. Severe Acute Respiratory Symptoms      D. Slow acute Respiratory Symptoms
47. Write the full form of HTML  
 A. Hyper Text Markup Language      B. Hyper Text Makeup Language  
 C. Hyper Text Main Language      D. Hyper Text Markup Location
48. Who invented Match box ?  
 A. John walker      B. Michael Faraday      C. Alfred Nobel      D. Muller
49. The founder of kuomintang party  
 A. Mao Tse-tung      B. Sun Yat -sen      C. Wang Mang      D. Tai Sung
50. 'I have nothing to offer but blood, toil, tears and sweat'. Who said these words ?  
 A. Karl Marx      B. Rousseau      C. Winston Churchil      D. Napoleon
51. The grand old woman of Indian nationalism is .....
- A. Annie Besant      B. Sarojini Naidu      C. Indira Gandhi      D. Rani Lakshmi Bai
52. Who is known as 'Bihar Gandhi' ?  
 A. Dr. S. Radhakrishnan      B. Rabindranath Tagore  
 C. Dr. Rajendra Prasad      D. Mahathma Gandhi
53. Which among the following place is the capital of Syria ?  
 A. Damascus      B. Dhaka      C. Dili      D. Dublin
54. The Khajuraho Temple, which is also known as Divine poetry on stone was built by.  
 A. Pallava dynasty      B. Chandela dynasty      C. Rashtrakuta dynasty      D. Chalukya dynasty
55. An open ground of Moscow attached to the Kremlin and used for processions and demonstrations.  
 A. Red Square      B. White Hall      C. Blue Square      D. None of these

56. Who is known as Father of Sports in Kerala ?  
A. H.C. Buck                      B. Ashley Cooper      C. Ludwig Guttmann      D. G.V. Raja
57. The first Malayali woman to win a gold medal in Asian Games held in India  
A. P. T. Usha                      B. Saniya Mirza      C. M. D. Valsamma      D. Saina Nehwal
58. E-mail service provided by Microsoft is  
A. Gmail                      B. Hot mail      C. Yahoo                      D. None of these
59. Which is the first e-literate panchayat in Kerala ?  
A. Vellanad                      B. Pallichal      C. Chamravattam      D. Nadapuram
60. Which among the following is the longest road in India ?  
A. National Highway No.22                      B. Grand Trunk Road  
C. NH 49                      D. NH 47 A
61. Which among the following is the highest battlefield ?  
A. Ladak                      B. Siachin      C. Leh                      D. None of the above
62. Who among the following ruler had announced the Temple Entry Proclamation in 1936 ?  
A. Swathi Thirunal                      B. Dharma Raja  
C. Sree Chithira Thirunal Balarama Varma                      D. Sethu Lakshmi Bhai
63. The post of Governor General in India was created by  
A. Regulating Act, 1773                      B. The Government of India Act, 1858  
C. The Government of India Act, 1861                      D. The Government of India Act 1892
64. The directive principles of state policy have been adopted from  
A. American constitution                      B. Irish constitution  
C. Japanese constitution                      D. Russian constitution
65. Pushkin Medal-2015, a state decoration of Russia was awarded to  
A. Sugatha Kumari      B. Rafeeque Ahammad      C. Benyamin                      D. O.N.V. Kurup
66. Who wrote the famous book 'Manushyanu Oru Amugham' ?  
A. K.R. Meera                      B. Subhash Chandran  
C. Balachandran Chullikkadu                      D. V. Ramachandran
67. The 150th anniversary of Red Cross was celebrated in .....  
A. 2011                      B. 2012                      C. 2013                      D. 2014
68. The 'Grand Old Man of England'  
A. Dadabhai Naoroji                      B. Churchil      C. Gladstone                      D. None of the above
69. Who is the world's richest man according to the Forbes list of world Billionaires 2016 released on 1<sup>st</sup> March 2016 ?  
A. Mark Zuckerberg                      B. Warren Buffett      C. Mukesh Ambani      D. Bill Gates
70. Which city is known as the 'City of Palaces' ?  
A. Bangaluru                      B. Kolkata      C. Hyderabad                      D. Mumbai
71. KNQT:LORU::ADGJ: ?  
A. BEHK                      B. FHLO      C. DGEF                      D. MPVW
72. Five girls are sitting in a row .Kalpitha is to the left of Mehbooba. Megha is to the right of Arpana.Sangeetha is in the middle of Megha and Kalpitha .Who among the following is to the extreme right of the row?  
A. Mehbooba                      B. Arpana                      C. Kalpitha      D. Cannot be determined
73. 7,9,13,21,37,?  
A. 58                      B. 63                      C. 69                      D. 72
74. A man started from his house and walked straight for 10m towards north and turned left and walked 25m .He then turned right and walked 5m and again turned right and walked 25m. Which direction is he facing now ?  
A. East                      B. West                      C. North                      D. South

**Direction (Q:Nos 75-79): In each of the questions below are given two statements fol-**



lowed by two conclusions numbered I and II . You have to take the two given statements to be true even if they seem to be at variance from commonly known facts and decide which of the given conclusion(s) logically follow(s) from the two given statements disregarding commonly known facts.

Give answers

- A. If only conclusion I follows
- B. If only conclusion II follows
- C. If neither I nor II follows
- D. If both I and II follow

75. Statements: No bangle is an earring.  
Some earrings are rings.  
Conclusions I No rings is a bangle  
II Some rings are definitely not earrings
76. Statements: All seats are hot  
All belts are hot  
Conclusions I All seats are belt  
II All hots are either seats or belts
77. Statements: All exams are tests .  
No test is a question  
Conclusions I At least some exams are questions  
II No exam is a question
78. Statements: All rivers are lakes.  
All lakes are oceans .  
Conclusions I All rivers are oceans .  
II At least some oceans are lakes.
79. Statements: Some banks are colleges  
All colleges are schools.  
Conclusions I At least some banks are school  
II All schools are colleges .
80. If a day before yesterday was Thursday, then when will Sunday fall?  
A. Today B. Second day after today C. Tomorrow D. A day after tomorrow
81. What was the day of the week on 2nd July 1984 ?  
A. Wednesday B. Tuesday C. Monday D. Thursday

**Direction (Q: Nos 82-86): Read the following information to answer the questions given below.**

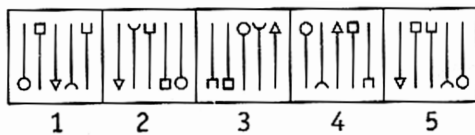
Five ships J,K,L,M and N are to be unloaded on 5 consecutive days beginning from Monday to Friday.

- a) Each ship takes one day to unload .
  - b) K must be unloaded before (Not necessarily immediately before ) the days on which M and N are unloaded .
  - c) L cannot be unloaded on Tuesday
  - d) M is the second ship to be unloaded after J is unloaded .
82. If M is unloaded on Friday, which one of the following is true ?  
A. J is unloaded on Wednesday B. K is unloaded on Tuesday  
C. L is unloaded on Monday D. L is unloaded on Thursday
83. If K,M and N are to be unloaded one immediately after the other ,the two days on which J can be unloaded are  
A. Monday and Tuesday B. Monday and Friday  
C. Tuesday and Wednesday D. Wednesday and Friday
84. If L is unloaded immediatly after J, Which of the following is true?  
A. J is unloaded on Wednesday B. K is unloaded on Monday  
C. L is unloaded on Thursday D. M is unloaded on Friday
85. If J is unloaded on Monday, then which of the following must be true ?  
A. L is unloaded before K B. L is unloaded before M.  
C. K is unloaded on Tuesday D. L is unloaded on Thursday
86. N can be unloaded on any day of the week except  
A. Monday B. Tuesday C. Wednesday D. Thursday

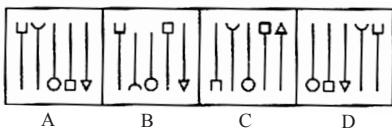
87. In a certain code language 'IPL' is written as '37' and 'POLISH' is written as '79', then how will 'GRAVITY' be coded in that language?  
 A. 102                      B. 205                      C. 115                      D. 95
88. If E=5 and EVEN=46, then ENTER=?  
 A. 62                      B. 52                      C. 72                      D. 42
89. If A=1, and LOT=47, then MAT=?  
 A. 40                      B. 66                      C. 34                      D. 51
90. If M=13, and MAT=34, then WAX=?  
 A. 47                      B. 25                      C. 48                      D. 23
91. If E=5, and AMENDMENT=89, then SECRETARY=?  
 A. 115                      B. 112                      C. 114                      D. 100
92. If A=1, and VAN=37, then FAT=?  
 A. 21                      B. 20                      C. 26                      D. 27

**Directions (Q.Nos 93-96):** 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.

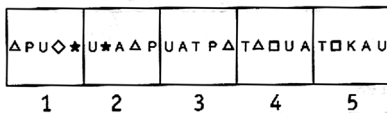
93. Problem Figures.



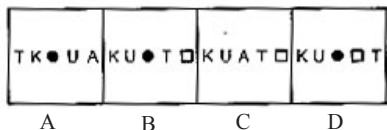
Answer Figures



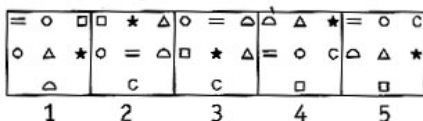
94. Problem Figures.



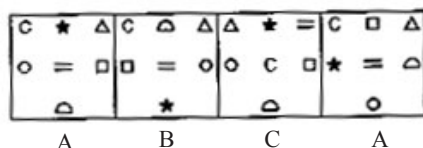
Answer Figures



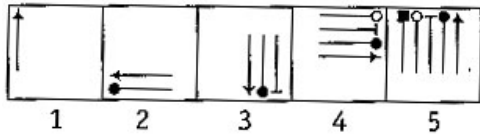
95. Problem Figures.



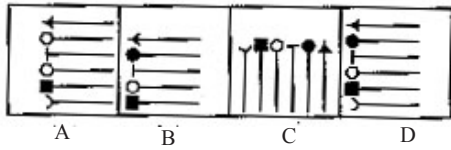
Answer Figures



96. Problem Figures.



Answer Figures



97. A. 40                      B. 80                      C. 90                      D. 100

98. A. 12                      B. 23                      C. 25                      D. 38

99. 

6	15	20
8	4	5
3	5	20
51	65	?

 A. 66                      B. 112                      C. 120                      D. 151

100. 

9	11	13
3	4	7
3	4	5
81	176	?

 A. 455                      B. 555                      C. 655                      D. 755

Space for rough works