A GRAND STEP TO BE A VIJAY RATNA
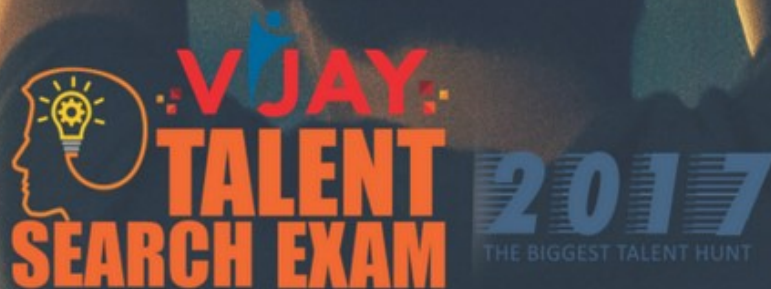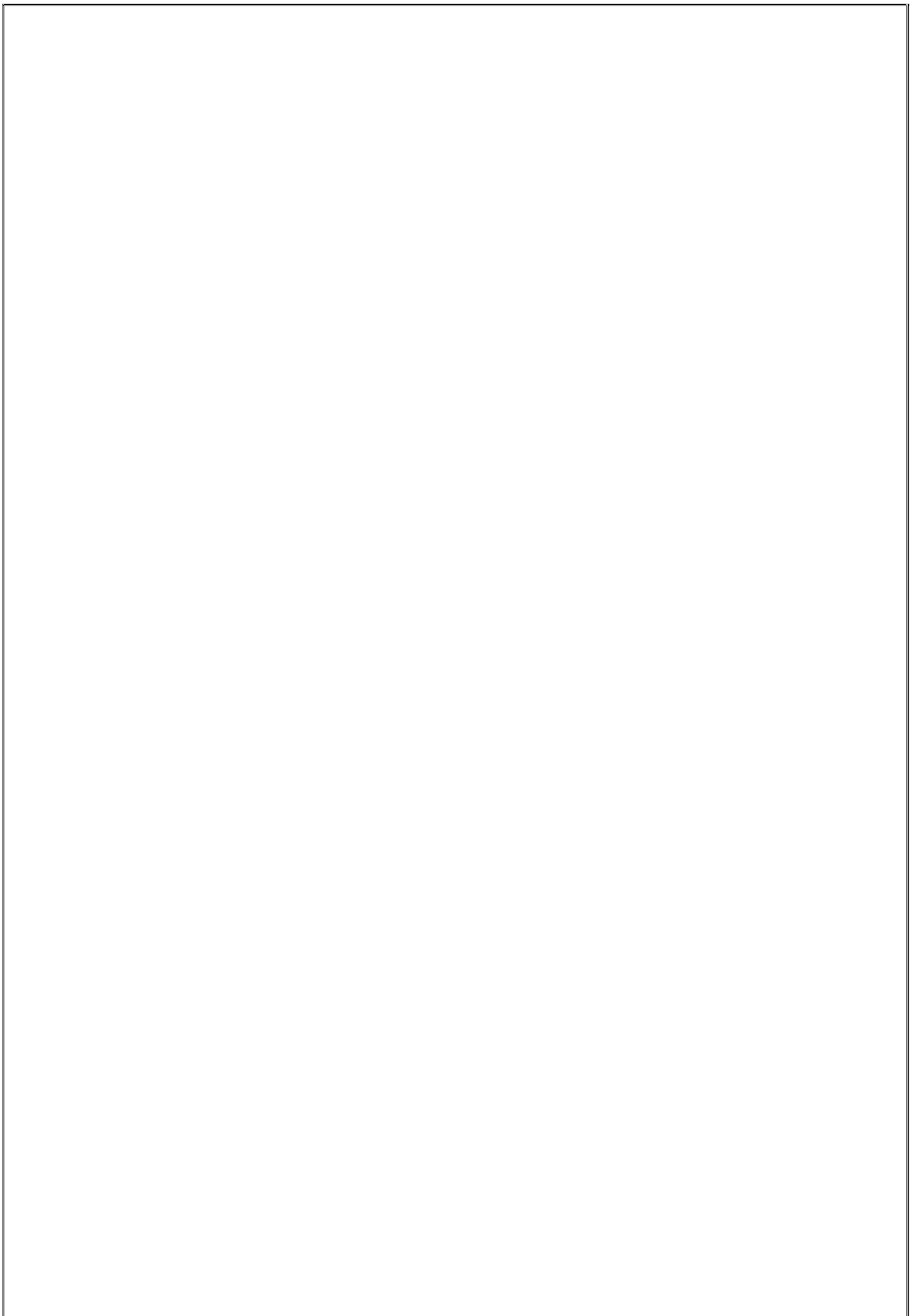
Sample Test paper

CLASS VII

STUDENTS WHO ARE MOVING TO CLASS VIII IN 2018

VTSE

TEST PAPER

NAME : _____   REG. NO. : ☐☐☐☐☐☐☐☐☐
9 Digits

Section	Subject	No. of Que.	Serial No.	Marking Scheme	
1	SCIENCE	20	1 to 20	Marked Correct	+2
2	MATHS	20	21 to 40	Marked Incorrect	0
3	SO.SCIENCE	20	41 to 60	Not Attempted	0
4	LR(MAT)	20	61 to 80	Max.Marks	200
5	GK	20	81 to 100	Duration	2 Hrs.
Total		**100**	**1 to 100**		

EXAMINATION HALL

GENERAL INSTRUCTIONS

Please read the instructions carefully. You are allotted additional 5 minutes specifically for this purpose.

A. General :

1 Space is provided within question paper for rough work hence no additional sheets will be provided.

2 Blank paper, clipboard, log tables, slide rules, calculators, cellular phones, pagers and electronic gadgets in any form are **not** allowed inside the examination hall.

3 Do not Tamper / mutilate the **ORS sheet** or this booklet.

4 SUBMIT the ORS sheet to the invigilator after completing the test and take the test paper with you.

5 Any student found/reported using unfair means to improve his/her performance in the test, shall be disqualified from VTSE.

6 Objective Response Sheet (ORS sheet), is provided separately.

7 Do not break the seals of the question-paper booklet before instructed to do so by the invigilators.

B. How to fill Objective Response Sheet (ORS sheet) for filling details marking answers:

8 Use only HB Pencil/Blue or Black ball point pen for filling the ORS sheet. Do not use Gel/lnk/Felt pen as it might smudge the ORS sheet.

9 Write your VTSE Student Registration No. in the boxes given in your ORS sheet with blue/black ball point pen. Also, darken the corresponding bubbles with HB Pencil/Blue or Black ball point pen only.

10 If any student does not fill his/her VTSE Student Registration No. correctly and properly, then his/her ORS sheet will not be checked/ evaluated.

11 Since it is not possible to erase and correct pen filled bubble, you are advised to be extremely careful while darkening the bubble corresponding to your answer.

12 Neither try to erase / rub / scratch the option nor make the Cross (X) mark on the option once filled, do not scribble, smudge, cut, tear, or wrinkle the ORS sheet. Do not put any stray mark or whitener anywhere on the ORS sheet.

13 If there is any discrepancy between the written data and the bubbled data in your ORS sheet, the bubbled data will be taken as final.

SECTION – 1 : SCIENCE

1. The vessels which carry carbon dioxide rich blood from all parts of the body back to the heart are called

   (a) Veins   (b) Arteries   (c) Capillaries   (d) Valves

2. There are some chemicals secreted by an insect to attract attention of other members of species. These are called

   (a) Vitamins   (b) Hormons   (c) Fibronin   (d) Pheromones

3. Which gas is produced when sludge is digested

   (a) Methane   (b) Ethane   (c) Propane   (d) Butane

4. What do we call the network of several food chains connecting each other

   (a) Food web   (b) Food chain   (c) Food cycle   (d) Trophic level

5. Nagma was playing basketball with her team mates. Just after the game her pulse rate will

   (a) Increase   (b) Decrease   (c) Remains same   (d) None of these

6. While manufacturing heater, electric irons etc. Nichrome is used as element (or filament) because it offers

   (a) High resistance   (b) Low resistance   (c) No resistance   (d) High voltage

7. Neutralization of calcium hydroxide with hydrochloric acid is an example of

   (a) Physical change   (b) Chemical change

   (c) Both physical chemical change   (d) No change

8. Sakshi visited her friend who was on dialysis in the hospital. Which organ of sakshi's friend was not working well

   (a) Heart   (b) Brain   (c) Eyes   (d) Kidney

9. Anil used a fuse as a safety device in the electrical circuit to prevent from short circuit. It melts at about 200ºC. Which alloy is used to make it

   (a) Zinc and Jin   (b) Lead and Tin   (c) Lead and Copper   (d) Zinc and Copper

10. Generally cars have two side view mirrors. Which of the following is used as a side view mirror

    (a) Convex mirror   (b) Concave mirror   (c) Plane mirror   (d) Plane glass

SPACE FOR ROUGH WORK

11. Rohul wants to measure atmospheric pressure. Which instrument will he use

    (a) Pyrometer   (b) Seismograph   (c) Barometer   (d) Ammeter

12. The image of an object formed using the convex side of a steel spoon is

    (a) Erect and smaller   (b) inverted and larger   (c) Inverted and smaller   (d) Erect and larger

13. On a very hot day, a girl has two choices for her dress, one lemon colour dress and another dark brown colour dress she wore lemon colour dress to prevent _____ of heat

    (a) Radiation   (b) Absorption   (c) Reflection   (d) Refraction

14. A storm has drk funnel shaped cloud reached the ground from the sky and sucked dust, debris and all other things on its way. Such a storm is called

    (a) Thunderstorm   (b) Tarnado   (c) Cyclone   (d) Tsunami

15. To keep a very low temperature, dry ice is used. It is solid _____

    (a) Hydrogen   (b) Water   (c) Carbon dioxide   (d)Air

16. Which mark is necessary on electrical appliances

    (a) EGGMARK   (b) ISI   (c) FICCI   (d) KSK

17. Which one of the following always carries oxygenated blood

    (a) Arteries except pulmonary artery   (b) Veine except pulmonary vein

    (c) Blood capillaries   (d) None of these

18. Which of the following is NOT responsible for water shortage ?

    (a) Rapid growth of industries   (b) Increasing population

    (c) Heavy rainfall   (d) Mismanagement of water resources

19. Which of the following is NOT prepared from the wood obtained from the wood obtained from forests

    (a) Paper   (b) Thermocol   (c) Matchstick   (d) Plywood

20. Forests are NOT responsible for

    (a) Providing medicinal plants   (b) Maintaining the flow of water into streams

    (c) Creating flood conditions   (d) Absorbing rainwater and maintaining water table
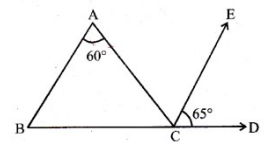
SECTION – 2 : MATHEMATICS

21. A fraction equivalent to $\dfrac{7}{3}$ is

(a) $\dfrac{21}{12}$

(b) $\dfrac{14}{3}$

(c) $\dfrac{28}{9}$

(d) $\dfrac{56}{24}$

22. What number should be added to 0.25×2.5 to get 1 ?

(a) 0.375

(b) 178.78

(c) 286.78

(d) 198.78

23. $\dfrac{4}{5}$ of 5 kg apples were used on Monday. The next day $\dfrac{1}{3}$ of what was left was used. Weight (in kg) of apples left now is

(a) $\dfrac{2}{7}$

(b) $\dfrac{1}{14}$

(c) $\dfrac{2}{3}$

(d) $\dfrac{4}{21}$

24. The HCF of two number is 28 and their LCM is 336. If one number is 112 then the other number is

(a) 64

(b) 84

(c) 34

(d) None of these

25. What will be the equation form for the following statement ? The sum of 3 times x and 11 is 32

(a) $x + 3 \times 1 = 32$

(b) $\dfrac{x}{3} + 11 = 32$

(c) $3(x + 11) = 32$

(d) $3x + 11 = 32$

26. Simplest form of $\left(\dfrac{4}{9}\right)^{3/2}$ is

(a) $\left(\dfrac{9}{4}\right)^{2/3}$

(b) $\dfrac{8}{27}$

(c) $\dfrac{27}{8}$

(d) $\left(\dfrac{8}{27}\right)^{2}$

27. The value of $25x^2 + 16y^2 + 40xy$ n at $x = 1$ and $y = -1$ is

(a) 81

(b) – 49

(c) 1

(d) None of these

28. A man spends 92% of his monthly income if he saves Rs. 220 per month, his monthly income is (in Rs.)

(a) 2850

(b) 2650

(c) 2750

(d) 2700

29. Salary of a Person is increased by 20%, then it is decreased by 20%.

(i) 4 % decrease   (b) 4 % increase   (c) 8 % decrease   (d) 20 increase

30. By selling a washing machine for Rs. 7200, Rajesh loses 10%. Find the Cost Price of the washing machine.

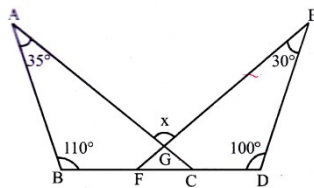(a) Rs 12000   (b) Rs 7200   (c) Rs 8000   (d) Rs 9600

31. If the altitude of an equilateral triangle is $\sqrt{6}\ cm$, its area is

(a) $2\sqrt{3}\ cm^2$ (b) $2\sqrt{2}\ cm^2$ (c) $3\sqrt{3}\ cm^2$ (d) $6\sqrt{2}\ cm^2$

32. The area of a circle is 2464 m², then the diameter is

(a) 56 m   (b) 154 m²   (c) 176 m²   (d) 44 m²

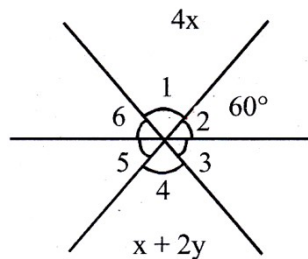**33.** In the given figure, it is given that $\angle A = 60°$ CE || BA and $\angle ECD = 65°$. The $\angle ACB$ equals to

(a) 60º   (b) 55º   (c) 70º   (d) 90º

34. Value of x in the given diagram is

(a) 70º   (b) 95º   (c) 110º   (d) 120º

35. If $\angle 1 = \angle 2$, then value of y is

(a) 45º   (b) 60º   (c) 22.5º   (d) 12.5º

36. The median of the following data 46, 64, 87, 41, 58, 77, 35, 90, 55, 33, 92 is

(a) 87   (b) 77   (c) 58   (d) 60.2

37. The mode of a set of observations is the value which

(a) occurs most frequently

(b) is central

(c) is between maximum and minimum

(d) none of the foregoing

38. The number of times a particular item occurs in a class interval is called its

(a) mean   (b) frequency

(c) cumulative frequency   (d) none of these

39. The mean of first 10 natural numbers is

(a) $\dfrac{5}{2}$ (b) $\dfrac{11}{2}$ (c) $\dfrac{13}{2}$ (d) 5

40. The probability of drawing a face card from a standard pack of 52 cards is

(a) $\dfrac{1}{13}$ (b) $\dfrac{4}{13}$ (c) $\dfrac{10}{13}$ (d) $\dfrac{3}{13}$

SECTION – 3 : SOCIAL SCIENCE

41. The sacred place created by Guru Nanak known as Dharamsal is now known as

(a) Masjid   (b) Mandir   (c) Gurudwara   (d) Church

42. Sawai Raja jai Singh founded his new capital at

(a) Lucknow   (b) Jaipur   (c) Jodhpur   (d) Poona

43. Which among the following is a form of public protest

(a) Signature campaign   (b) Rallies and dharnas   (c) Strikes   (d) all of these

44. Advertisement usually focus on

(a) The lives of rich and famous people

(b) The lives of poor

(c) Moral degradation of people

(d) None of the above

45. The emporium of western trade during the Mughal period was

(a) Surat   (b) Hampi   (c) Calcutta   (d) Masulipatnam

46. The climate of Ladakh is

(a) Hot and wet

(b) Hot and dry

(c) Extremly cold and dry

(d) Neither very cold nor very hot

47. Toucans are types of

(a) Crops   (b) Trees   (c) Birds   (d) Animals

48. The region famous for its diamond mines

(a) Kimberly   (b) Johannesburg   (c) Ecuador   (d) Bolivia

49. Which among is not a classical dance

(a) Kathak   (b) Bhangra   (c) Manipuri   (d) Bharatnatyam

50. Prashastis were composed by

(a) Kings   (b) Learned Brahmans   (c) Jagirdar   (d) Mansabdars

51. Akbarnama was written by

(a) Akbar   (b) Abul fazl   (c) Faizi   (d) Ziyauddin Barani

52. The term 'Hindustan' was first used by

(a) Al-Idrisi   (b) Minaj-i-Siraj   (c) Amir Khusro   (d) Babar

53. Mushroom rocks are found near

(a) Sea coast   (b) River valleys   (c) Glaciers   (d) Deserts

54. A narrow zone where land, water and air interacts called

(a) Atmosphere   (b) Hydrosphere   (c) Biosphere   (d) Lithosphere

55. Madurai was an important

(a) Religious centre   (b) Administration centre   (c) Trading centre   (d) Port city

56. It is necessary for the media to provide

(a) A balanced report   (b) A factual report   (c) A biased report   (d) A detailed report

57. Women, Tribals, dalits, poor and minorities are :

(a) Treated with respect   (b) Ignored   (c) Protected   (d) Discriminated against

58. Narsi Mehta was a :

(a) Bihari saint   (b) Gujrati Saint   (c) Rajasthani saint   (d) Punjabi saint

59. Which is the example of mass media

(a) Television   (b) Radio   (c) Newspaper   (d) All of the above

60. For making online purchase we use

(a) Debit card   (b) Ration card   (c) Pan card   (d) Aadhar card

SECTION – 4 : LOGICAL REASONING

Direction (61 & 62) : In each of the following questions the numbers are arranged in a particular order. Choose the missing number from the given alternatives and write its serial number on your answer sheet.

61. 21, 25, 33, 49, 81, ?

(a) 97   (b) 113   (c) 139   (d) 145

62. 53, 52, 48, ?, 23, - 2

(a) 36   (b) 39   (c) 42   (d) 44

Direction (63) : In the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.
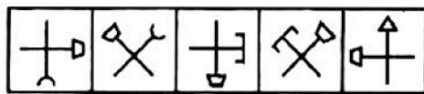
63. aa __ aaa __ aaaa __ aaaa _ b

(a) baaa   (b) bbaa   (c) bbbb   (d) bbba

Direction (64) : In the following question, four words have been given out of which three are a like in some manner, while the fourth one is different. Choose out the odd one.

64. (a) Litchi   (b) Papaya   (c) Watermelon   (d) Jackfruit

65. If in a certain code, SWITCH is written as TVJSDG, which word would be written as CQFZE?

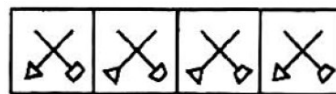(a) BARED   (b) BRAED   (c) BREAD   (d) BRADE

Direction (66) : Each of the following question consists of five Problems marked 1, 2, 3, 4 and 5. Select a figure from amongst the Answer Figure which will continue the same series as established by the five Problem figure.

66.   **Problem – figures**   **Answer – figures**

(1)   (2)   (3)   (4)   (5)   (A)   (B)   (C)   (D)

Direction (67) : In the following question, statement/group of statements is given followed by some conclusions. Without resolving anything yourself, choose the conclusion which logically follows from the given statement(s).

67. **Statement :** Ability is poor man's wealth.

Conclusion :

(a) A poor man is always able   (b) A poor man has the ability to earn wealth

(c) A wealthy man is always able   (d) A poor man can earn wealth if he has ability

68. How many meaningful words can be formed using the first, the third, the fifth and the sixth letters of the word TRADEMARK using each letters only once in each word?

(a) One   (b) Two   (c) Three   (d) Four

69. How is the son of the woman who is the mother of the wife of my father related to me?

(a) Uncle   (b) Father   (c) Grandfather   (d) Son

70. The number of boys in a class is three times the number of girls. Which one of the following numbers cannot represent the total number of children in the class?

(a) 48   (b) 44   (c) 42   (d) 40

71. If the second day of a month is a Friday, which of the following would be the last day of the next month which has 31 days?
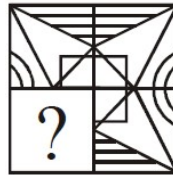
(a) Sunday   (b) Monday   (c) Tuesday   (d) Data inadequate

72.

1	2	3
11	7	5
120	45	?

(a) 19   (b) 17   (c) 16   (d) 15

73. In the following question, select a figure from amongst the four alternatives, which when placed in the blank space of figure would complete the pattern.

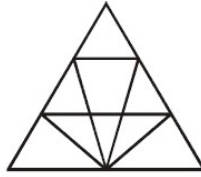(a)   (b)   (c)   (d)

74. In the following question, choose the correct water-image of the fig.(X) from amongst the four alternatives (a), (b), (c) and (d) given along with it.

(X)

(a)   (b)   (c)   (d)

75. In the following question, find the number of triangle in the given figure.

(a) 12   (b) 18   (c) 22   (d) 26

Direction (76) : Choose the odd numeral pair/group.

76. (a) $0.50, 1\frac{1}{2}, 3.00, 0.25$ (b) $\frac{1}{2}, 0.75, 1\frac{1}{2}, 1.00$ (c) $0.5, 0.75, 1.5, 1$ (d) $1.00, 1\frac{1}{2}, 3.00, 2.00$

77. TRADE is related to UQBCF in the same way as PLATE is related to …… ? …..

(a) QKBSF   (b) QKBUF   (c) OMZUD   (d) QMBUF

Direction (78) : In the following questions, one term in the number series is wrong. Find out the wrong term.

78. 10, 14, 28, 32, 64, 68, 132

(a) 28   (b) 32   (c) 64   (d) 132

Directions : (79 to 80) Study the given information and answer the question that following. Five persons are standing in a queue. One of the two persons at the extreme ends is a Professor and the other is a Businessman. An Advocate is standing to the right of a student. A Author is to the immediate left of the Businessman. The Student is between the Professor and the Advocate.

79. Counting from the left the Author is at which place ?

(a) First   (b) Second   (c) Third   (d) Fourth

80. Which of the following is in the exactly middle of the queue ?

(a) Professor   (b) Advocate   (c) Student   (d) Businessman

SECTION – 5 : GENERAL KNOWLEDGE

81. Date on which demonetisation started in India.

   (a) Dec 31, 2016   (b) March 31, 2017   (c) Nov 8, 2016   (d) Dec 1, 2017

82. What is meaning of GST.

   (a) Geo Stationary Telescope   (b) Good & Simple Tax

   (c) Great Secure Tower   (d) Goods & Services Tax

83. Who is current Miss World.

   (a) Priyanka Chopra   (b) Susmita Sen   (c) Neha Dhupia   (d) Manushi Chhillar

84. Who is the current Indian President of India.

   (a) Ram Nath Kovind   (b) Pranav Mukherjee

   (c) Dr. A.P.J. Abdul Kalam   (d) Sumitra Mahajan

85. Which is the latest Version of Android operating system for mobiles.

   (a) Nougat   (b) OREO   (c) Marshmallow   (d) Kitkat

86. What is the full form of IIS.

   (a) Indian Institute of Services   (b) Indian Institute of Science

   (c) International Institute of Services   (d) International Institute of Science

87. Which is the most Renowned Institute for medical course in India.

   (a) MGM Indore   (b) AFMC Pune   (c) SMS Jaipur   (d) AIIMS Delhi

88. Queen Padmawati belongs to which place.

   (a) Japiur   (b) Udaipur   (c) Chittorgarh   (d) Jaisalmer

89. What is the Name of the horse of Maha Rana Pratap

   (a) Arawat   (b) Badal   (c) Gora   (d) Chetak.

90. Which is the first Coaching Institute in India to Introduce "Live Coaching View."

   (a) Vijay Education Academy   (b) Fiitjee

   (c) Allen   (d) Aakash

91. JEE-Advanced 2018 will be conducted in (Mode?)

(a) Pen & Paper

(b) Pencil & Rubber

(c) Subjective-Oral

(d) Online-computer based test

92. Where is IISER Located in Madhya Pradesh

(a) Indore   (b) Mhow   (c) Jabalpur   (d) Bhopal

93. How many digits Aadhar Number has

(a) 10   (b) 11   (c) 12   (d) 13

94. Who was Steve Jobs ?

(a) Head of Twitter   (b) Head of Google   (c) President of U.S.   (d) Head of Apple

95. Which is the online platform for Professional Social Network.

(a) Facebook   (b) Linked In   (c) Twitter   (d) WhatsAPP

96. The Latest Technology for light bulbs is based on

(a) LED   (b) LCD   (c) Mercury   (d) Halogen

97. In the Month of Dec. 2017 which Indian state will go for assembly elections.

(a) M.P.   (b) U.P.   (c) Gujrat   (d) Maharashtra

98. Name the day of the week as on Jan. 1, 2018.

(a) Monday   (b) Sunday   (c) Tuesday   (d) Saturday

99. Who is the singing sensation in the movie Secret Superstar.

(a) Kiran Rao   (b) Zaira Wasim   (c) Aamir Khan   (d) Salman Khan

100. Which item is NOT included in the prizes of VTSE 2017

(a) Laptop   (b) Smart Phones   (c) Desktop   (d) Books.

ANSWERS KEY

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