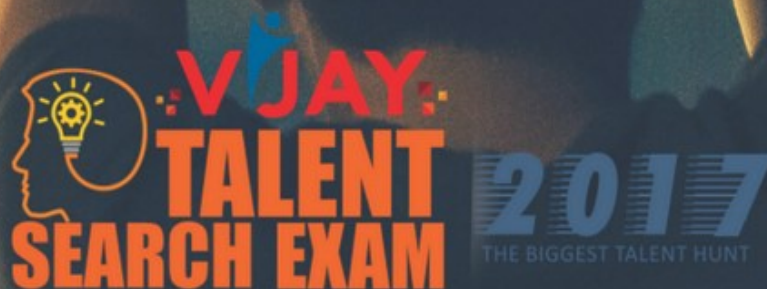


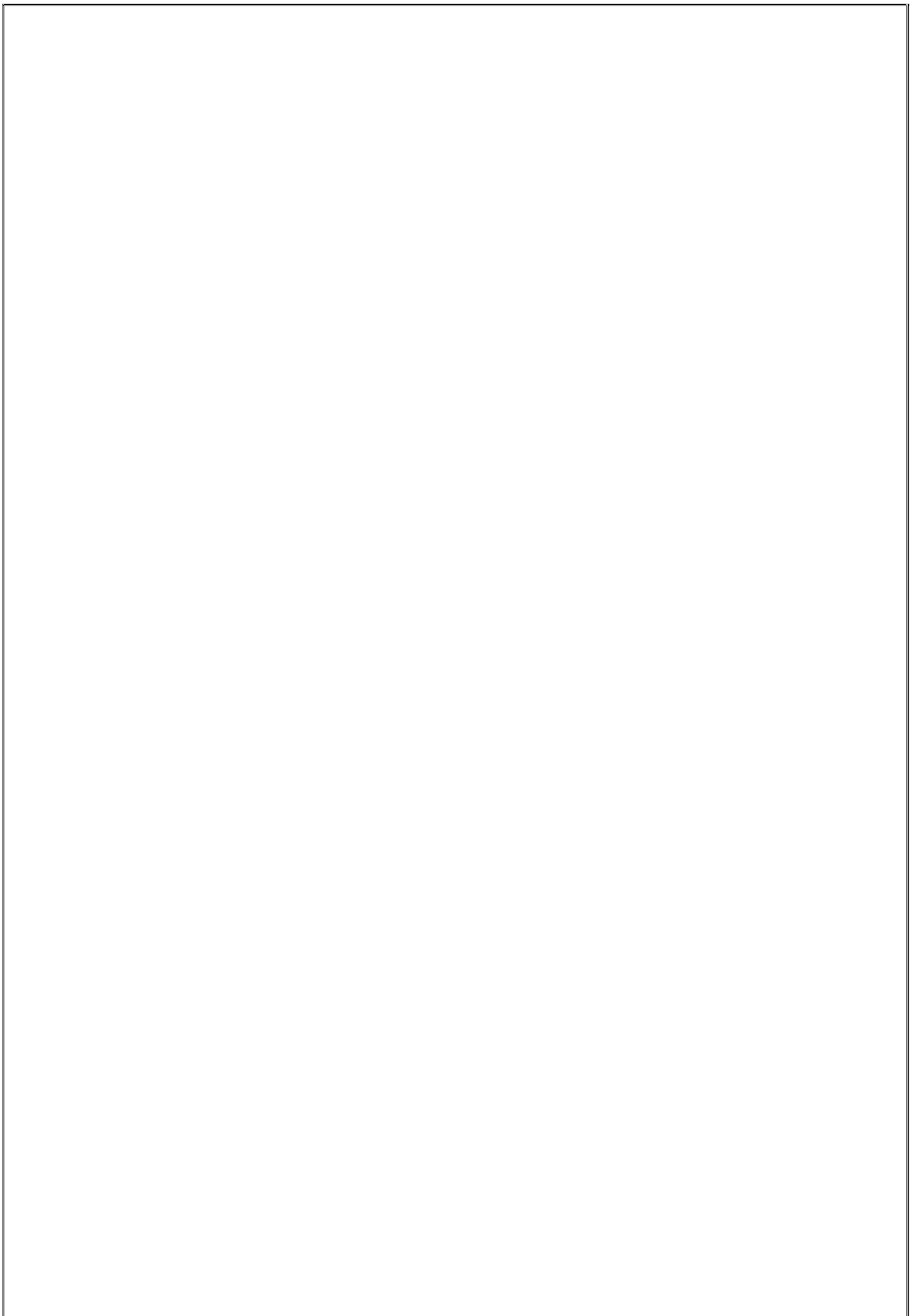
A GRAND STEP TO BE A VIJAY RATNA

*Sample  
Test paper*

**CLASS VIII**

STUDENTS WHO ARE MOVING TO CLASS IX IN 2018







## 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 :

- Space is provided within question paper for rough work hence no additional sheets will be provided.
- Blank paper, clipboard, log tables, slide rules, calculators, cellular phones, pagers and electronic gadgets in any form are **not** allowed inside the examination hall.
- Do not Tamper / mutilate the **ORS sheet** or this booklet.
- SUBMIT the ORS sheet to the invigilator after completing the test and take the test paper with you.
- Any student found/reported using unfair means to improve his/her performance in the test, shall be disqualified from VTSE.
- Objective Response Sheet (ORS sheet), is provided separately.
- 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:

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

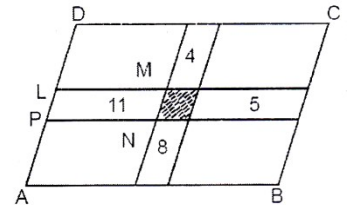
1. Which of the following is related to sexual reproduction ?  
(a) Vegetative reproduction (b) Fertilization (c) Binary fission (d) Multiple fission
2. Which of the following is not a unicellular organism  
(a) Yeast (b) Euglena (c) Plant (d) Paramecium
3. The male sex hormone secreted by testis is  
(a) Progesterone (b) Oestrogen (c) Testosterone (d) Thyroxine
4. The cell organelle that is known as the power house of the cell is called  
(a) Ribosome (b) Lycosomes (c) Leucoplast (d) Mitochondria
5. Which of the following can be charged with static electricity  
(a) Metal (b) Wood (c) Insulator (d) Semiconductor
6. An incident ray makes an angle of  $60^\circ$  with the surface of plane mirror. The angle of reflection will be  
(a) Less than  $60^\circ$  (b)  $60^\circ$  (c)  $90^\circ$  (d)  $180^\circ$
7. Like charges  
(a) Always attract each other  
(b) Always repel each other  
(c) Can repel or attract each other depending on conditions  
(d) Can repel or attract each other depending on quantity of charge
8. Which of the following is the hottest planet in the solar system  
(a) Mercury (b) Venus (c) Earth (d) Mars
9. The instrument which is used to measure current flowing through a circuit is  
(a) Voltmeter (b) Ammeter (c) Voltmeter (d) Galvanometer
10. Which one of the following is not a combustible substance  
(a) Paper (b) Wood (c) Glass (d) Coal

**SPACE FOR ROUGH WORK**

11. The outermost zone of candle flame is used by goldsmith to melt gold because it is the  
(a) Least hot part                      (b) Coldest part                      (c) Hottest part                      (d) Moderately hot part
12. The air pollutant which reduces oxygen carrying capacity of blood is  
(a) Carbon dioxide                      (b) Carbon monoxide                      (c) Nitrogen monoxide                      (d) Sulphur dioxide
13. The hydrogen gas burns with a  
(a) Musical sound                      (b) Cracking sound                      (c) Pop sound                      (d) Does not burn
14. Which one of the following element do not displace hydrogen from water  
(a) Zinc                      (b) Sodium                      (c) Copper                      (d) Magnesium
15. In case of refraction through a glass slab the incident and emergent rays are  
(a) Towards normal                      (b) Parallel to each other                      (c) Away from normal                      (d) Meet at an angle
16. The speed of sound is maximum in  
(a) Vacuum                      (b) Steel                      (c) Air                      (d) Water
17. Which of the following is a good conductor of electricity  
(a) Distilled water                      (b) Lemon juice                      (c) Alcohol                      (d) Glycerin
18. Metals react with oxygen to form :  
(a) Basic oxides                      (b) Acidic oxides                      (c) Hydroxides                      (d) Neutral oxides
19. Polycot is a  
(a) Natural fibre                      (b) Synthetic fibre                      (c) Blended fibre                      (d) Not a fibre
20. Which one of the following is not a bacterial infection  
(a) Typhoid                      (b) Polio                      (c) Cholera                      (d) Diarrhoea

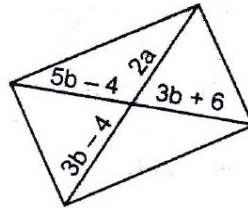
**SECTION - 2 : MATHEMATICS**

21. If  $3^{x-1} + 3^{x+1} = 90$ , then the value of  $(x + 2)$   
 (a) 3 (b) 5 (c) 0 (d) 1
22. If  $3^{2x-y} = 27$  and  $3^{x+y} = 729$ , then  $(2x)$  is  
 (a) 3 (b) 0 (c) 6 (d) 4
23. If  $x + \frac{1}{x} = 2$ , find the value of  $x^2 + \frac{1}{x^2}$   
 (a) 2 (b) 4 (c) 16 (d) 8
24. Sum of rational number  $\frac{4}{7}$  and its reciprocal is  
 (a)  $\frac{28}{65}$  (b)  $\frac{65}{28}$  (c)  $\frac{-28}{65}$  (d)  $\frac{-65}{28}$
25.  $1 + 3 + 5 + 7 + \dots$  up to  $n$  terms is equal to  
 (a)  $n^2 - 1$  (b)  $(n+1)^2$  (c)  $n^2 + 1$  (d)  $n^2$
26. The smallest number by which 162 should be multiplied to make it a perfect square is  
 (a) 4 (b) 3 (c) 2 (d) 1
27. In the adjoining figure ABCD is a parallelogram of perimeter 21. It is subdivided into smaller parallelograms by drawing lines parallel to the sides the numbers shown are the respective perimeters of the parallelograms in which they are marked. (For example the perimeter of the parallelogram LMNP is 11). Find the perimeter of the shaded parallelogram.  
 (a) 4 (b) 15 (c) 7 (d) 12



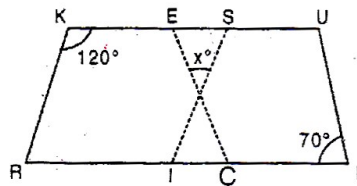
**SPACE FOR ROUGH WORK**

28. What values of  $a$  would make the given quadrilateral parallelogram



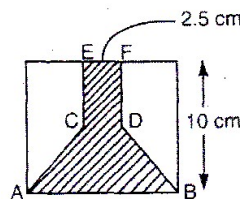
- (a)  $5\frac{1}{4}$                       (b)  $5\frac{1}{2}$                       (c)  $5\frac{3}{4}$                       (d) 5

29. In the above figure both RISK and CLUE are parallelograms. Find the value of  $x$ .



- (a)  $60^\circ$                       (b)  $30^\circ$                       (c)  $50^\circ$                       (d)  $120^\circ$

30. In the given figure, the side of the square is 10 cm.  $EF = 2.5$  cm and C and D are half way between the top and bottom sides of the figure. The area of the shaded portion of the figure is :



- (a)  $43.75 \text{ cm}^2$                       (b)  $56.25 \text{ cm}^2$                       (c)  $55.25 \text{ cm}^2$                       (d)  $50.25 \text{ cm}^2$

31. The surface area of an open box whose length, breadth and height are  $l$ ,  $b$  and  $h$  respectively is :

- (a)  $2(lb + bh) + hl$                       (b)  $2(bh + hl) + lb$                       (c)  $2(lb + bh + hl)$                       (d)  $2(lb + hl) + bh$

32. Which of the following numbers is divisible by 8 ?

- (a) 32466                      (b) 32476                      (c) 32486                      (d) 32456

**SPACE FOR ROUGH WORK**

33. If  $36x52y8$  is divisible by 9, then  $x + y$  is  
(a) 2 (b) 3 (c) 4 (d) 5
34. If  $A + A + A = B1$ , where A and B are different digits, then  
(a)  $A = 1, B = 5$  (b)  $A = 5, B = 2$  (c)  $A = 5, B = 1$  (d)  $A = 7, B = 2$
35. What per cent of  $\sqrt{0.0169}$  is 0.0117 ?  
(a) 0.9 (b) 0.1 (c) 0.09 (d) 9
36. What per cent is 3% of 5% ?  
(a) 15% (b) 30% (c) 50% (d) 60%
37. Ramesh owns a plot worth Rs 10, 000. He sells it to Mukesh at a profit of 10%. After sometimes, Mukesh sells it back to Ramesh at a loss of 10%, then Ramesh.  
(a) loses Rs 100 (b) loses Rs 900 (c) gains Rs 100 (d) gains Rs 1100
38. The compound interest on Rs 2, 000 at the rate of 20% p.a. for  $1\frac{1}{2}$  years compounded half yearly will be  
(a) Rs 662 (b) Rs 664 (c) Rs 760 (d) Rs 762
39. What is the remainder when  $(x^4 + 1)$  is divided by  $(x - 2)$  ?  
(a) 17 (b) 15 (c) 7 (d) 1
40. A tree 12 metre high casts a shadow of length 8 metre. Height of the tree, whose shadow is 6 metre in length is  
(a) 6 m (b) 9 m (c) 15 m (d) none of these

**SECTION – 3 : SOCIAL SCIENCE**

41. Which of the following is the most important natural resource :  
(a) Land (b) Water (c) Air (d) All of these
42. The resources whose quantities are know, named as :  
(a) Potential (b) Actual resources (c) Stock (d) All of these

**SPACE FOR ROUGH WORK**



43. Cultivation of grapes is called :
- (a) Sericulture                      (b) Viticulture                      (c) Floriculture                      (d) Horticulture
44. The word colonial means :
- (a) Neighbourhood                      (b) Neighbourhood country  
(c) The country which is under another country                      (d) Neighbourhood state
45. The last powerful Mughal ruler was :
- (a) Shahajahan                      (b) Aurangzeb                      (c) Sirajuddin                      (d) None of these
46. Which of the following was not the Presidency :
- (a) Bengal                      (b) Madras                      (c) Bombay                      (d) Poona
47. Under this system of revenue settlement, revenue was fixed according to the fertility of the soil :
- (a) Permanent settlement                      (b) Ryotwari system                      (c) Mahalwari system                      (d) Dahsala
48. The last Mughal Emperor was deported to :
- (a) Rangoon                      (b) Timbaktu                      (c) London                      (d) Paris
49. The revolt of 1857 started from :
- (a) Meerut                      (b) Mathura                      (c) Jhansi                      (d) Awadh
50. Who is known as the father of the Indian constitution :
- (a) Pt. Jawahar Lal Nehru                      (b) Dr. Babasaheb bhimrao Ambedkar  
(c) Dr. Rajendra Prasad                      (d) Babu Jagjivan Ram
51. The leader of the ruling party in Lok Sabha is :
- (a) Prime Minister                      (b) President                      (c) Minister                      (d) Representative
52. The highest law making body of country consisting of the Lok Sabha and Rajya Sabha is known as :
- (a) High court                      (b) Supreme court                      (c) Parliament                      (d) None of the these
53. Who has the power to impeach the judges of the supreme court :
- (a) The law minister                      (b) The vice president                      (c) The prime minister                      (d) The president

54. Who files the charge-sheet :
- (a) Magistrate                      (b) Police                      (c) Defence lawyer                      (d) Public prosecutor
55. In an FIR, what does the letter I stands for :
- (a) Investigation                      (b) Information                      (c) Incharge                      (d) Interrogation
56. Steel is known as the back of the modern industry because :
- (a) Steel is strong and so supports modern industry like the human backbone  
(b) Steel is essential material for almost all other basic industries like transport, energy and construction  
(c) Steel rods are shaped like the human spine  
(d) None of the above
57. A human made fibre :
- (a) Silk                      (b) Flax                      (c) Rayon                      (d) Cotton
58. E.V. Ramaswamy was known by the name :
- (a) Phule                      (b) Periyar                      (c) Vidyasagar                      (d) Dayanand Saraswati
59. Prarathana Samaj was founded by :
- (a) H.L.V. Derozio                      (b) Swami Vivekanand                      (c) Atmaram Panduranga                      (d) Raja Ram Mohan Roy
60. Tipu sultan's sword was made of :
- (a) Stainless steel                      (b) Wootz                      (c) Silver                      (d) None of these

### **SECTION – 4 : LOGICAL REASONING**

**Direction (61 & 62) : In each of the following questions, a number series is given which is in accordance with some certain rule. Find out the correct answer for the place of sign of interrogation out of the given alternatives**

61. 1, 4, 5, 9, 14, 23, 37, ?

- (a) 50                      (b) 58                      (c) 60                      (d) 74

**SPACE FOR ROUGH WORK**

62. 1, 8, 3, 16, 5, 32, 7, ?, 9

- (a) 49 (b) 64 (c) 68 (d) 44

**Direction (63) :** In each question below are given two statement followed by two conclusion numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusion and then decided which of the given conclusion logically follows from the two given statements, disregarding commonly known facts.

63. Statement : Morning walks are good for health.

Conclusion : I. All healthy people go for morning walks.

II. Evening walks are harmful.

- (a) if only conclusion I follows (b) if only conclusion II follows  
(c) if either conclusion I or II follows (d) if neither conclusion I nor II follows

**Direction (64) :** In the following question, a series of letters and number is given, the terms of which follows certain definite pattern in groups. However, some terms in the series are missing, which are given in the same order as one of the alternatives below the series. Choose the correct alternative.

64. F \_ U 6 \_ 9 I \_ T 7 \_ 20 4 D 23

- (a) 11, G, 16, K, U (b) 13, H, 15, L, M (c) 17, J, 19, R, S (d) 21, R, 18, G, W

**Direction (65) :** In following questions, four words have been given out of which three are alike in some manner, while the fourth one is different. Choose out the odd one.

65. (a) Fox (b) Yak (c) Bear (d) Kangaroo

66. If in a certain code, DECEMBER is written as ERMBCEDE. Which word will be written as ERMBVENO in that code?

- (a) OVEMBERN (b) REBMEVON (c) VEERNOMB (d) NOVEMBER

67. Five friends A, B, C, D and E are standing in a row facing South but not necessarily in the same order. Only B is between A and E, C is immediate right to E and D is immediate left to A. On the basis of above information, which of the following statements is definitely true?

- (a) B is to the left to A (b) D is third to the left of E  
(c) B is to the right of E (d) A is second to the left of C

**SPACE FOR ROUGH WORK**

**Direction (68) :** Choose the odd numeral pair/group in each of the following questions.

68. (a) 15 : 63 (b) 22 : 91 (c) 23 : 95 (d) 31 : 97

69. If  $8 \div 5 = 6425$

$$9 \div 6 = 8136$$

Then  $4 \div 3 = ?$

(a) 1609 (b) 1690 (c) 4381 (d) 4421

70. If the first day of year (other than the leap year) was Friday, then which was the last day of the year?

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

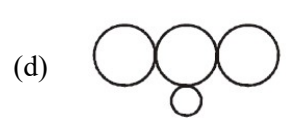
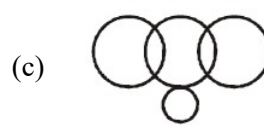
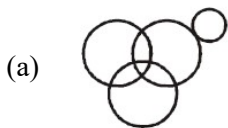
71. E is the son of A, D is the son of B, E is married to C, C is B's daughter, how is D related to E

(a) brother (b) uncle (c) father-in-law (d) none of these

72. At a dinner party every two guests used a bowl of rice between them, every three guests used a bowl of dal between them and every four used a bowl of meat between them. There were altogether 65 dishes. How many guests were present at the party?

(a) 60 (b) 65 (c) 90 (d) None of these

73. In a class of 46 students, 18 played football, 17 played cricket including 6 who played football. 16 students played hockey including 4 who played cricket, but not football. Five students played carom but no outdoor game. Which of the following figures represents these facts?



74. Which one of the four interchange in signs and numbers would make the given equation correct?  $(3 \div 4) + 2 = 2$

(a) + and  $\div$ , 2 and 3 (b) + and  $\div$ , 2 and 4 (c) + and  $\div$ , 3 and 4 (d) No interchange, 3 and 4

75. If '-' stands for 'division', '+' for multiplication, ' $\div$ ' for 'subtraction' and ' $\times$ ' for 'addition', which one of the following equations is correct?

(a)  $6 + 20 - 12 \div 7 - 1 = 38$

(b)  $6 - 20 \div 12 \times 7 + 1 = 57$

(c)  $6 + 20 - 12 \div 7 \times 1 = 62$

(d)  $6 \div 20 \times 12 + 7 - 1 = 70$

**SPACE FOR ROUGH WORK**



76. Which of the given options fits correctly in the blank space to exhibit the similar pattern in each of the three sets below?

84

81

88

14 12

18 9

? 11

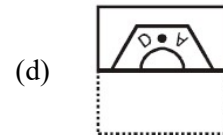
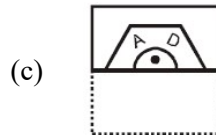
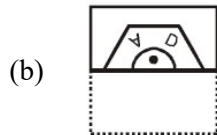
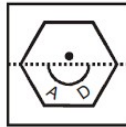
(a) 8

(b) 12

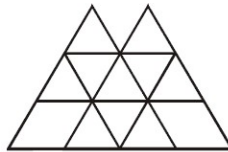
(c) 16

(d) 18

77. In the following problem, a square transparent sheet with a pattern is given. Figure out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



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



(a) 16

(b) 18

(c) 14

(d) 15

**Directions : (79 to 80)** In each of the following questions, choose one number which is similar to the numbers in the given set ?

79. Given set : 192, 282, 372

(a) 453

(b) 461

(c) 236

(d) 425

80. Given set : 363, 489, 579

(a) 562

(b) 471

(c) 382

(d) 281

**SPACE FOR ROUGH WORK**

**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

**SPACE FOR ROUGH WORK**

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

SPACE FOR ROUGH WORK