

J&K SAINIK SCHOOL MANASBAL

TEST BOOKLET - XI

ROLL NUMBER

Test Booklet No. & Series

100013

100013

A

Name of the Candidate:

Signature of the Candidate:

Time:  $2\frac{1}{2}$  Hours

Maximum Marks: 280

**GENERAL INSTRUCTIONS FOR CANDIDATE**

1. This booklet comprises of five sections (32 Pages) comprising of 140 Questions with Section A - 50 (Mathematics), B - 35 (Reasoning), C - 30 (Science) and D - 25 (English). Each question has 2 marks for correct answer.
2. A separate OMR sheet will be provided to mark the correct answer at the proper place on the OMR sheet.
3. Use only blue/black ball pen to fill your OMR sheet. Use of pencil is not allowed.
4. For every question there are four probable answers out of which only one is the most appropriate / correct. The candidate is required to select the correct answer and darken the bubble against the correct option provided against each question in the OMR sheet. For example, if your answer for a particular question is option C, fill the bubble as given below.



5. Overwriting, erasing or cutting on OMR is not allowed. Using of correction fluid/whitener is also not allowed on OMR.
6. Rough work must be done only on this Booklet at the portion specified for the same.
7. The time allowed is 150 minutes.
8. There is no Negative marking.
9. A candidate is eligible for admission if he secures a minimum of 25% marks in each section and 40% marks in aggregate of all the sections. However, admission will be based on relative merit of the candidate followed by medical fitness and verification of requisite documents.

Signature of Invigilator

Signature of Centre Superintendent

**SECTION A: MATHEMATICS**

(Total Question - 50 Max Marks - 100)

- Q.1. The product of a rational number and an irrational number is
- (a) Rational
  - (b) Irrational
  - (c) May be rational or irrational
  - (d) None of these
- Q.2. If a and b are rational numbers and  $\frac{3+\sqrt{8}}{3-\sqrt{8}} = a + b\sqrt{8}$ , the value of a and b is
- (a)  $a=7, b=17$
  - (b)  $a=8, b=17$
  - (c)  $a=17, b=8$
  - (d)  $a=17, b=6$
- Q.3. When the polynomial  $kx^3 + 9x^2 + 4x - 8$  is divided by  $x+3$ , then a remainder 7 is obtained, the value of K is
- (a) 7
  - (b) 5
  - (c) 2
  - (d) 3
- Q.4. If  $x^{51} + 51$  is divided by  $(x+1)$  the remainder is
- (a) 52
  - (b) 51
  - (c) 49
  - (d) 50
- Q.5. If the temperature is  $0^{\circ}\text{C}$ , the temperature in Fahrenheit scale is
- (a)  $-32^{\circ}\text{F}$
  - (b)  $98^{\circ}\text{F}$
  - (c)  $32^{\circ}\text{F}$
  - (d)  $34^{\circ}\text{F}$

ROUGH

- Q.6. If Rs. 50 is distributed among 150 children, giving 50 paise to each boy and 25 paise to each girl, then the number of boys is
- (a) 25
  - (b) 40
  - (c) 36
  - (d) 50
- Q.7. Find two consecutive odd positive integers, sum of whose squares is 290
- (a) 11, 13
  - (b) 13, 15
  - (c) 9, 11
  - (d) 7, 9
- Q.8. The number of solutions of the equation  $\sqrt{6-4x-x^2} = x+4$  is
- (a) 0
  - (b) 1
  - (c) 2
  - (d) 4
- Q.9. A point whose both coordinates are negative will lie in
- (a) Any quadrant
  - (b) Quadrant -I
  - (c) Quadrant-II
  - (d) Quadrant-III
- Q.10. The distance between the point (2, -2) and (-1, x) is 5, one of the values of x is
- (a) -2
  - (b) 2
  - (c) -1
  - (d) 1
- Q.11. The common difference of an AP Whose nth term is  $3n+5$ .
- (a) 2
  - (b) 3
  - (c) 5
  - (d) 7

ROUGH

- Q.12.** The sides of a right angled triangle are in AP. The ratio of sides is  
 (a) 1:2:3  
 (b) 2:3:4  
 (c) 3:4:5  
 (d) 5:8:3
- Q.13.** The lengths of sides of a triangle are in the ratio 3:4:5 and its perimeter is 120 cm , its area is  
 (a)  $550 \text{ cm}^2$   
 (b)  $500 \text{ cm}^2$   
 (c)  $600 \text{ cm}^2$   
 (d)  $650 \text{ cm}^2$
- Q.14.** If two parallelograms are on equal basis and between the same parallels, then ratio of their areas is  
 (a) 1:2  
 (b) 1:1  
 (c) 2:1  
 (d) 3:1
- Q.15.** The supplement of an angle is one fourth of itself ,the measure of the angle is  
 (a) 18  
 (b) 36  
 (c) 144  
 (d) 72
- Q.16.** Which of the following angles can be constructed using ruler and compass only  
 (a)  $85^\circ$   
 (b)  $115^\circ$   
 (c)  $47.5^\circ$   
 (d)  $75^\circ$

ROUGH

- Q.17.** An equilateral triangle of side 9 cm is inscribed in a circle, the radius of the circle is
- (a)  $2\sqrt{2}$  cm
  - (b)  $3\sqrt{2}$  cm
  - (c)  $2\sqrt{3}$  cm
  - (d)  $3\sqrt{3}$  cm
- Q.18.** A circle is inscribed in a  $\Delta ABC$  touching AB, BC and AC at P, Q and R respectively, if  $AB=10$  cm,  $AR=7$  cm and  $CR=5$  cm, then the Length of BC is
- (a) 2 cm
  - (b) 8 cm
  - (c) 4 cm
  - (d) 6 cm
- Q.19.** The diameter of a roller is 84 cm and its length is 120 cm, it takes 500 complete revolutions to move once over to level a playground. The area of the play ground is
- (a)  $6000 m^2$
  - (b)  $3168 m^2$
  - (c)  $1584 m^2$
  - (d) none of these
- Q.20.** The radii of two cylinders are in the ratio of 2:3 and their heights are in the ratio of 5:3. The ratio of their volumes is
- (a) 10:17
  - (b) 20:27
  - (c) 17:27
  - (d) 20:37
- Q.21.**  $\sin 2A = 2\sin A$  is true when  $A=$
- (a)  $0^\circ$
  - (b)  $30^\circ$
  - (c)  $45^\circ$
  - (d)  $60^\circ$

ROUGH

- Q.22.** If  $\sin 3A = \cos(A-10^\circ)$  then the value of A is
- (a)  $55^\circ$
  - (b)  $45^\circ$
  - (c)  $25^\circ$
  - (d)  $30^\circ$
- Q.23.** All circles are
- (a) Congruent
  - (b) Similar
  - (c) Both (a) and (b)
  - (d) None of these.
- Q.24.** The line segments joining the midpoints of the adjacent sides of a quadrilateral form
- (a) A parallelogram
  - (b) A rectangle
  - (c) A square
  - (d) A rhombus
- Q.25.** The areas of two circles are in the ratio 4:9, the ratio of their circumferences is
- (a) 2:3
  - (b) 3:2
  - (c) 4:9
  - (d) 9:4
- Q.26.** A calf is tied with a rope of length 6m at the corner of a square grassy lawn of side 20m. If the length of the rope is increased by 5.5 m, find the increased area of the grassy lawn in which the calf can graze
- (a)  $96 \pi m^2$
  - (b)  $36 \pi m^2$
  - (c)  $48 \pi m^2$
  - (d)  $24 \pi m^2$

---

ROUGH

- Q.27.** Suppose you drop a die at random on the rectangular region of dimension  $3m \times 2m$  respectively, what is the probability that it will land inside the circle with diameter  $1m$ ?
- (a)  $\frac{\pi}{24}$   
(b)  $\frac{\pi}{5}$   
(c)  $\frac{\pi}{22}$   
(d)  $\frac{\pi}{18}$
- Q.28.** The mean of 5 numbers is 18 if one number is excluded their mean is 16, the excluded number is
- (a) 26  
(b) 16  
(c) 36  
(d) 21
- Q.29.** The median of the data 41,43,127,99,71,92,71,58,57 is
- (a) 92  
(b) 71  
(c) 99  
(d) 58
- Q.30.** Which of the following can not be the probability of an event
- (a)  $\frac{4}{5}$   
(b)  $\frac{1}{2}$   
(c)  $\frac{7}{9}$   
(d)  $\frac{5}{4}$
- Q.31.** In a cricket match if the probability  $P(E)$  of hitting a boundary is 0.3, then the probability of non-hitting the boundary is
- (a) 0.2  
(b) 0.4  
(c) 0.7  
(d) 0.5

ROUGH

- Q.32.** The radii of two circles are 8cm and 6cm respectively, the radius of the circle having area equal to the sum of the areas of the two circles is
- (a) 9cm
  - (b) 10cm
  - (c) 11cm
  - (d) 12cm
- Q.33.** Let  $\Delta ABC \sim \Delta DEF$  and their areas be respectively  $64 \text{ cm}^2$  and  $121 \text{ cm}^2$ . If  $EF = 15.4 \text{ cm}$ , then  $BC =$
- (a) 10 cm
  - (b) 12.2 cm
  - (c) 11.2 cm
  - (d) 11 cm
- Q.34.** Two sides of a triangle are 5cm and 1.5cm. The length of the 3<sup>rd</sup> side of the triangle cannot be
- (a) 4.1 cm
  - (b) 3.8 cm
  - (c) 3.6 cm
  - (d) 3.4 cm
- Q.35.** If  $x = a \sec \theta + b \tan \theta$ ,  $y = a \tan \theta + b \sec \theta$  then the value  $x^2 - y^2$  is
- (a)  $a^2 b^2$
  - (b)  $a^2 + b^2$
  - (c)  $a^2 - b^2$
  - (d) 1
- Q.36.** Value of  $\cos 1^\circ \cos 2^\circ \cos 3^\circ \dots \dots \cos 180^\circ$  is
- (a) 0
  - (b) 1
  - (c) -1
  - (d)  $\infty$

---

ROUGH



- Q.37.** Which is false in case of hollow Cylinder
- (a) Curved Surface Area  $= 2\pi h(R+r)$
  - (b) Total Surface Area  $= 2\pi (R+r)(h+R-r)$
  - (c) Inner Curved Surface Area  $= 2\pi h(R-r)$
  - (d) Area of Each End  $= \pi(R^2 - r^2)$
- Q.38.** If the radius of a sphere is doubled then the ratio of their volumes is
- (a) 1:4
  - (b) 1:8
  - (c) 1:16
  - (d) 1:2
- Q.39.** A Circle can have ----- parallel tangents at the most.
- (a) 2
  - (b) 7
  - (c) 3
  - (d) 5
- Q.40.** If  $x$  and  $y$  form a linear pair such that  $x-2y=33^\circ$ , then the value of  $x$  is
- (a)  $33^\circ$
  - (b)  $49^\circ$
  - (c)  $131^\circ$
  - (d) None of these
- Q.41.** An equilateral triangle and square have equal perimeter and area. The area of the triangle is  $36\sqrt{3}cm^2$ , the diagonal of the square is
- (a)  $9\sqrt{3}$  cm
  - (b)  $9\sqrt{2}$  cm
  - (c)  $8\sqrt{2}$  cm
  - (d)  $18\sqrt{2}$  cm
- Q.42.** The fourth term of an AP is 14 and its twelfth term is 70, its first term is
- (a) -7
  - (b) -14
  - (c) 7
  - (d) 14

ROUGH

- Q.43.** The centre of a circle passing through the points (7, -5), (3,-7) and (3,3) is  
 (a) (5,-6)  
 (b) (5,-1)  
 (c) (3, 2)  
 (d) (3, -2)
- Q.44.** One year ago a man was 8 times as old as his son, now his age is equal to the square of his son's age. Their present ages are  
 (a) 6 yrs ,42 yrs  
 (b) 7 yrs , 49 yrs  
 (c) 9 yrs , 63 yrs  
 (d) 8 yrs , 56 yrs
- Q.45.** A natural number when increased by 12 equals 160 times its reciprocal, the number is  
 (a) 6  
 (b) 8  
 (c) 9  
 (d) 7
- Q.46.** Any point on the y-axis is of the form  
 (a) (x,y)  
 (b) (x,0)  
 (c) (0,y)  
 (d) (y,y)
- Q.47.** The difference between two numbers is 26 and one number is three times the other. The numbers are  
 (a) 39,13  
 (b) 19,45  
 (c) 36,12  
 (d) None of these

ROUGH

- Q.48. The point of intersection of the line  $3x+7y=14$  and the y-axis is
- (a) (0,0)
  - (b) (2,0)
  - (c) (1,1)
  - (d) (0,2)
- Q.49. Which of the following number is irrational?
- (a)  $\sqrt{45}$
  - (b)  $\sqrt[3]{27}$
  - (c)  $\sqrt{196}$
  - (d)  $\sqrt{576}$
- Q.50. The number which when divided by 3, 4 and 13 always leaves the same remainder 2 is
- (a) 158
  - (b) 162
  - (c) 148
  - (d) 150

### SECTION B: REASONING

(Total Question - 35 Max Marks - 70)

- Q.51. CARD : IGXJ :: POST : ? (Choose correct option)
- (a) UTXY
  - (b) VUYZ
  - (c) UTYZ
  - (d) VUXY
- Q.52. 123 is related to  $13^2$  in the same way 286 is related to
- (a)  $28^6$
  - (b)  $26^8$
  - (c)  $42^3$
  - (d)  $8^{26}$

ROUGH

**Directions (Q.No. 53 and 54) Find the odd word/letter/number from the given alternatives.**

**Q.53.** \_\_\_\_\_

- (a) ZSLE
- (b) YRKD
- (c) XQJC
- (d) WITB

**Q.54.** \_\_\_\_\_

- (a) ACE
- (b) GIK
- (c) JLM
- (d) SUW

**Q.55.** N ,O,Q,T,X,C,? (Replace the? with suitable option)

- (a) I
- (b) H
- (c) J
- (d) L

**Q.56.** 1,5,9,16,25,37,49. (Choose the wrong term in the series)

- (a) 16
- (b) 9
- (c) 25
- (d) 37

**Q.57.** Which of the following word will come 2<sup>nd</sup> in the dictionary?

- (a) Quick
- (b) Quack
- (c) Quilt
- (d) Question

**Q.58.** From the given alternatives select the word which cannot be formed using the letters given in the word "LAWYER"

- (a) YEAR
- (b) WEAR
- (c) EAR
- (d) JAW

---

ROUGH

**Q.59.** Arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence

1. Critical      2. Criterion      3. Crisis      4. Crisp

- (a) 3,4,2,1  
 (b) 1,3,4,2  
 (c) 3,4,1,2  
 (d) 4,3,1,2

**Direction (Q.No. 60 - 61):** Arrange the given words in a meaningful / logical order and then choose the correct sequence

**Q.60.** 1. Key    2. Door    3. Lock    4. Room    5. Switch on

- (a) 5,1,2,4,3  
 (b) 4,2,1,5,3  
 (c) 1,2,3,5,4  
 (d) 1,3,2,4,5

**Q.61.** 1. Milky way    2. Sun    3. Moon    4. Earth    5. Stars

- (a) 3,4,2,5,1  
 (b) 3,4,1,5,2  
 (c) 3,1,4,2,5  
 (d) 3,4,5,1,2.

**Q.62.** In a certain code language "FACE" is written as "GCFI", then how will "PALM" be written in that language?

- (a) FCIG  
 (b) PCRB  
 (c) QCOQ  
 (d) MAPL

**Q.63.** In a certain code language "NATURAL" is written as "MZGFIZO", then how will "CARE" be written in that language?

- (a) XZIV  
 (b) XZVI  
 (c) XVZI  
 (d) XIZV

ROUGH

- Q.64.** In a certain code language 'Reasoning is easy' is written as 'la ja nu' and 'Take it easy' is written as 're sa nu', find the code for easy?
- (a) re  
 (b) la  
 (c) ja  
 (d) nu
- Q.65.** Five girls took part in a race, Sonam finished before Niha but after Puja. Shivani finished before Anju but after Niha, who won the race?
- (a) Sonam  
 (b) Puja  
 (c) Shivani  
 (d) Niha
- Q.66.** Rajesh's rank is 12<sup>th</sup> from top and 30<sup>th</sup> from bottom among the children who passed examination. If 16 children failed, then find the total number of children who appeared for the examination.
- (a) 57  
 (b) 33  
 (c) 68  
 (d) 45
- Q.67.** Umesh is taller than Satish, Suresh is shorter than Neeraj but taller than Umesh. Who is the tallest among them?
- (a) Umesh  
 (b) Satish  
 (c) Surej  
 (d) Neeraj
- Q.68.** Ram is to the south of Aishwarya and to the west of Rani. If Priyanka is to the south of Ram, then in which direction is Priyanka with respect to Rani?
- (a) South  
 (b) North-East  
 (c) South-West  
 (d) North

ROUGH

- Q.69.** A man travels 4 km due North, then travels 6 km due East and further travels 4 km due North. How far is he from the starting?
- (a) 6 km
  - (b) 14 km
  - (c) 8 km
  - (d) 10 km

**Directions (Q.No. 70 to 73) Read the information carefully and answer the questions based on it.**

**Six Persons are sitting in a circle. A is facing to B. B is to the right of E and left of C. C is to the left of D. F is to the right of A.**

- Q.70.** Who will be sitting to the left of D?
- (a) B
  - (b) F
  - (c) C
  - (d) A
- Q.71.** Who will be sitting to the left of C?
- (a) E
  - (b) C
  - (c) A
  - (d) B
- Q.72.** Who will be sitting opposite to E?
- (a) A
  - (b) F
  - (c) D
  - (d) B
- Q.73.** Who will be sitting opposite to C?
- (a) F
  - (b) E
  - (c) B
  - (d) A

ROUGH

Q.74. The characters /numbers in below set follow the similar pattern,replace ? by suitable option

7	6	9
2	8	4
4	3	?
36	42	26

- (a) 5
- (b) 2
- (c) 3
- (d) 4

Q.75. The characters /numbers in the below set follow the similar pattern, replace ? by the suitable option

A	B	D
P	K	G
V	C	?

- (a) N
- (b) K
- (c) M
- (d) O

Q.76. How many times in a day the hands of the clock coincide with each other?

- (a) 12
- (b) 24
- (c) 22
- (d) 44

Q.77. Two days before yesterday was Friday, then what day of week will be day after tomorrow?

- (a) Monday
- (b) Sunday
- (c) Saturday
- (d) Wednesday

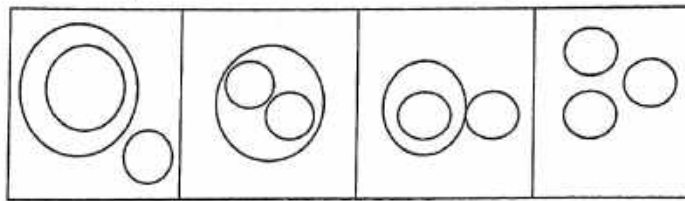
ROUGH



**SERIES-A**

**Directions (Q.Nos. 78-80)** In the following questions, three classes are given.

Out of the four figures that follow, you have to find the figure that best represents the relationship amongst the three given classes.



(a)

(b)

(c)

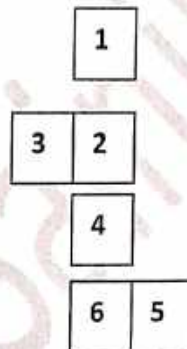
(d)

**Q.78.** Elephants, Wolves, Animals

**Q.79.** Tea, Coffee, Drinks

**Q.80.** Police, thief, Criminal

**Q.81.** When the following figure is folded to form the dice, then which number will be opposite to 5?



(a) 1

(b) 2

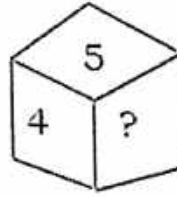
(c) 3

(d) 4

ROUGH

Q.82. Find the missing at the face opposite to the face having digit 4 in the given dice.

- (a) 2
- (b) 6
- (c) 5
- (d) 3



**Directions (Q.No. 83-84) In the following read the statements carefully and then decide which of the given conclusions logically follows from the given statements.**

Q.83. **Statements:**

All pens are roads.  
All roads are Houses

**Conclusions:**

- I. All houses are pens.
  - II. Some houses are pens.
  - III. All pens are houses.
- (a) Only conclusion I and II follows
  - (b) Only conclusion II and III follows
  - (c) both conclusions I and III follow
  - (d) No conclusion follow

Q.84. **Statements:**

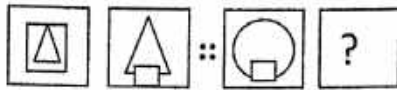
All trucks are buses  
Some scooters are bus

**Conclusions:**

- I. All trucks are scooters
  - II. No bus is scooter
  - III. No scooter is bus
- (a) Only conclusion I and II follows
  - (b) Only conclusion II and III follows
  - (c) both conclusions I and III follow
  - (d) No conclusion follow

ROUGH

Q.85. In the following choose the figure that will replace the question mark ?



Answer figures



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

### SECTION C: SCIENCE

(Total Question - 30 Max Marks - 60)

- Q.86. The velocity-time graph of a particle is not a straight line. Its Acceleration is  
 (a) Zero  
 (b) Constant  
 (c) Negative  
 (d) Variable
- Q.87. How much momentum will a dumb bell of mass 10 kg transfer to the floor if it falls from a height of 80 cm? Take its downward acceleration to  $10\text{ms}^{-2}$   
 (a)  $20\text{kg -m/s}$   
 (b)  $40\text{kg -m/s}$   
 (c)  $60\text{kg -m/s}$   
 (d)  $100\text{kg -m/s}$
- Q.88. Mass of an object is 10 kg, what is its weight on the earth  
 (a) 88 N  
 (b) 98 N  
 (c) 72 N  
 (d) 100 N
- Q.89. A lamp consumes 1000 J of electrical energy in 10s. What is its power?  
 (a) 100 W  
 (b) 50 W  
 (c) 110 W  
 (d) 60 W

ROUGH

- Q.90.** What is the range of frequencies associated with Ultrasound?  
 (a) 0Hz -20 KHz  
 (b) 20 KHz -  $10^6$ KHz  
 (c)  $10^3$ KHz- $10^6$ KHz  
 (d) 20KHz -  $10^7$ KHz
- Q.91.** The magnification of a concave mirror is -1, what is the position of the object?  
 (a) at focus  
 (b) at pole  
 (c) at the centre of curvature  
 (d) at infinity
- Q.92.** A convex lens is made of glass of refractive index 1.5, the radius of curvature of each of its two surfaces is 20 cm. The lens is immersed inside a liquid of refractive index 1.25. The power of lens in air is  
 (a) 4D  
 (b) 5D  
 (c) 6D  
 (d) 7D
- Q.93.** Human eye has maximum luminous efficiency to ----- light  
 (a) Yellow  
 (b) Red  
 (c) Violet  
 (d) Green
- Q.94.** How will the resistance of a wire change if its diameter (d) is doubled, its length remaining the same?  
 (a)  $\frac{1}{2}$  times  
 (b)  $\frac{1}{4}$  times  
 (c) 2 times  
 (d) 4 times

ROUGH

- Q.95. Electric Iron is based on the principle of \_\_\_\_\_
- (a) heating effect of current
  - (b) magnetic effect of current
  - (c) chemical effect of current
  - (d) none of these
- Q.96. Uncontrolled nuclear chain reaction is the basis of \_\_\_\_\_
- (a) hydrogen bomb
  - (b) atom bomb
  - (c) nuclear reactor
  - (d) none of these
- Q.97. Boiling is \_\_\_\_\_
- (a) an exothermic process
  - (b) an endothermic process
  - (c) both (a) and (b)
  - (d) none of these
- Q.98. The gas which is added to water to kill germs is
- (a)  $\text{CO}_2$
  - (b)  $\text{Cl}_2$
  - (c)  $\text{O}_2$
  - (d)  $\text{H}_2$
- Q.99. The atomic mass of sodium is 23. The number of moles in 46g of sodium is
- (a) 1
  - (b) 4.6
  - (c) 2.3
  - (d) 2
- Q.100. The charge on the atom having 17 protons, 18 electrons is
- (a) +1
  - (b) -2
  - (c) -1
  - (d) Zero

ROUGH

- Q.101. The following reaction is an example of?  
 $2KBr(aq) + BaI_2(aq) \rightarrow 2KI(aq) + BaBr_2(aq)$
- (a) Combination reaction
  - (b) Displacement reaction
  - (c) Double displacement reaction
  - (d) Decomposition reaction
- Q.102. Which of the following is not a base?
- (a) KOH
  - (b)  $ZnO$
  - (c)  $Al(OH)_3$
  - (d)  $NaCl$
- Q.103. Food cans are coated with tin and not with zinc because \_\_\_\_\_
- (a) zinc is costlier than tin
  - (b) zinc has the highest melting point than tin
  - (c) zinc is more reactive than tin
  - (d) zinc is less reactive than tin
- Q.104. Diamond is not good conductor of electricity because \_\_\_\_\_
- (a) it is very hard
  - (b) its structure is very compact
  - (c) it is not water soluble
  - (d) it has no free electrons
- Q.105. Open-Chain saturated hydrocarbons are called \_\_\_\_\_
- (a) paraffins
  - (b) alkenes
  - (c) alkynes
  - (d) alkyl groups
- Q.106. Which of the following is most electropositive element?
- (a) Mg
  - (b) Al
  - (c) Na
  - (d) Si

ROUGH

- Q.107. Chromosomes are made up of \_\_\_\_\_
- (a) DNA
  - (b) Protein
  - (c) DNA and Protein
  - (d) RNA
- Q.108. Bone is an example of \_\_\_\_\_.
- (a) Nervous tissue
  - (b) Epithelial tissue
  - (c) Connective tissue
  - (d) Muscular tissue
- Q.109. Penicillin is obtained from a \_\_\_\_\_.
- (a) bacteria
  - (b) fungus
  - (c) lichen
  - (d) algae
- Q.110. Ringworm is due to
- (a) virus
  - (b) algae
  - (c) bacteria
  - (d) fungus
- Q.111. Which of the following contribute to greenhouse effect?
- (a) Chlorofluorocarbons
  - (b) Methane
  - (c) Carbon Dioxide
  - (d) All of these
- Q.112. The first bio insecticide developed on a commercial scale was
- (a) DDT
  - (b) Quinine
  - (c) Sporeine
  - (d) Organophosphate

---

ROUGH

- Q.113. Which of the following is essential for blood clotting?
- (a) RBC
  - (b) WBC
  - (c) Lymph
  - (d) Platelets
- Q.114. The functional junction between two neurons is called
- (a) Axon
  - (b) Synapse
  - (c) Dendrites
  - (d) None of these
- Q.115. Ozone shield protects us from
- (a) Cosmic rays
  - (b) UV-C
  - (c) UV-B
  - (d) Both (b) and (c)

### SECTION D: ENGLISH

(Total Question – 25 Max Marks – 50)

**Directions (Q.116-120) In the following passage some words have been omitted. Fill in the blanks with the help of alternatives given. Select the most appropriate options for each blank.**

A phrase consists usually of a few words which denote a single idea that.....(1)..... a separate part of a sentence. In this respect, it differs from a clause .....(2)..... is a short sentence that forms a distinct part ....(3).....a composition , paragraph or discourse . Correct phrasing is .....(4).... by rests, such rests do not break the .....(5)..... of a thought or the progress of the sense.

- Q.116. Select the most appropriate option for blank No. 1
- (a) form
  - (b) forms
  - (c) formation
  - (d) forming

ROUGH



**Q.117.** Select the most appropriate option for blank No. 2

- (a) What
- (b) Which
- (c) Whom
- (d) Where

**Q.118.** Select the most appropriate option for blank No. 3

- (a) For
- (b) At
- (c) Of
- (d) To

**Q.119.** Select the most appropriate option for blank No. 4

- (a) regulate
- (b) regulates
- (c) regulative
- (d) regulated

**Q.120.** Select the most appropriate option for blank No. 5

- (a) Continuity
- (b) Continue
- (c) Continuous
- (d) Continuously

---

ROUGH

**Directions (Q.No. 121-125) Read the following passage carefully and answer the questions that follow**

After submitting his resignation, Albert came out and took the long narrow road leading to the railway station which was one of the busiest roads in the city. Sad and depressed and worried about looking for a new job, Albert looked around for a cigarette shop. He walked up to the end of the road, but found no tobacconist. It was odd that such a busy thorough fare with thousands of people passing through did not even have a cigarette shop. He suddenly felt that it was no longer necessary for him to hunt for a job. He decided to open a tobacco shop himself. It was bound to be profitable, he felt.

**Q.121.** After submitting his resignation, Albert came out worried about

- (a) a shelter
- (b) cigarettes
- (c) a job
- (d) the next available train

**Q.122.** Albert was sad and depressed because

- (a) he had no money for the train journey
- (b) he had to walk on a long road
- (c) he was not able to buy cigarettes
- (d) he was worried about finding a job.

**Q.123.** There was no cigarette shop on that road because

- (a) smoking is banned in that area
- (b) just by chance no body opened one on the road
- (c) it was a very narrow road
- (d) cigarette shop owners do not make any profit

**Q.124.** Albert decided not to look for a new job because

- (a) the thought of having to look for a job greatly distressed him
- (b) he did not want to work at all
- (c) there was no hope of finding a job
- (d) he saw the possibility of self-employment

ROUGH

- Q.125.** A cigarette shop on a busy road was bound to be profitable because
- (a) cigarette shops are known to make a great deal of profit
  - (b) any shop on a busy street would attract a large number of customers
  - (c) cigarettes are inexpensive items and people buy the willingly
  - (d) a cigarette shop on a busy road would attract a large number of customers
- Q.126.** You ..... your notebooks from tomorrow (Choose appropriate word)
- (a) need not bring
  - (b) need not to bring
  - (c) need not have brought
  - (d) either (a) or (c)
- Q.127.** His father died ..... cancer. (Choose appropriate word)
- (a) In
  - (b) Of
  - (c) By
  - (d) For
- Q.128.** My watch .....at nine O'clock but now it ..... (Choose appropriate words)
- (a) ran , it stopped
  - (b) was running , is stopping
  - (c) ran ,has stopped
  - (d) was running ,has stopped
- Q.129.** .....he played very well, he could not get an award.(Choose appropriate word)
- (a) If
  - (b) Unless
  - (c) Although
  - (d) Yet
- Q.130.** I waited for my friend .....(Choose appropriate word)
- (a) he had arrived
  - (b) unless he arrived
  - (c) till he arrived
  - (d) until he has arrived

ROUGH

*Direction (Q. 131 to 132) Choose the one option that best expresses the same sentence in indirect/direct speech)*

- Q.131. "Please do not go away", she said.
- (a) (She begged that I should not go away.
  - (b) She said to please her and not go away
  - (c) She told me not to go away
  - (d) She begged me not to go away
- Q.132. The judge said to the accused, "Hold your tongue".
- (a) The judge ordered the accused to hold his tongue.
  - (b) The judge accused to hold his tongue.
  - (c) The judge told the accuse,hold you tongue.
  - (d) The judge told the accused,hold his tongue.
- Q.133. ....lands have no market.(Choose appropriate word)
- (a) Baren
  - (b) Barren
  - (c) Baron
  - (d) None of these

*In the following question, some parts have been jumbled up, rearrange these parts and choose the correct arrangement.*

- Q.134. Though my father
- P: he is deeply concerned
- Q: about their needs
- R: makes his children
- S: carry out their duties promptly
- (a) R S P Q
  - (b) P R Q S
  - (c) R S Q P
  - (d) P Q R S
- Q.135. Everybody wanted to listen that beautiful song (Name the underlined adjective)
- (a) Demonstrative Adjective
  - (b) Interrogative Adjective
  - (c) Numeral Adjective
  - (d) Descriptive Adjective

ROUGH

**Q.136.** Give the noun form of the word "able"

- (a) To be able
- (b) Abled
- (c) Ableness
- (d) Ability

**Q.137.** Choose the correctly spelt word

- (a) Influenza
- (b) Influanza
- (c) Influenza
- (d) Influenta

**Q.138.** There was a marked deterioration in his condition. (Choose the word closest to the opposite in meaning of the underlined word/phrase)

- (a) improvement
- (b) revision
- (c) reformation
- (d) amendment

**Directions (Q.No, 139-140)** In the following questions, out of the four alternatives select the alternative which best expresses meaning of the phrase/idiom

**Q.139.** Put your best foot forward

- (a) Take care to dress well
- (b) Walk very cautiously
- (c) Try as hard as one can
- (d) Check every step

**Q.140. Red letter day:**

- (a) A very special day
- (b) A very hot day
- (c) A frightful day
- (d) A very cold day

---

ROUGH