J&K SAINIK SCHOOL MANASBAL

TEST BOOKLET – XI

ROLL NUMBER

130025

Test Booklet No. & Series

130025	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 (**24 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

SEAL

SPACE FOR ROUGH

SECTION A: MATHEMATICS

(Total Question – 50 Max Marks – 100)

Q1. Which of the following is not irrational?

(a) $(2 - \sqrt{3})2$ **(b)** $(\sqrt{2} + \sqrt{3})2$

(c) $(\sqrt{2} - \sqrt{3})(\sqrt{2} + \sqrt{3})$ **(d)** $\frac{2\sqrt{7}}{7}$

Q2. The largest number that will divide 398,436 and 542 leaving remainders 7,11and 15 respectively is

(a) 17 **(b)** 11

(c) 34 **(d)** 45

Q3. Express 98 as a product of its primes

(a) $2^2 \times 7$ **(b)** $2^2 \times 7^2$

(c) 2×7^2 **(d)** $2^3 \times 7$

Q4. Three farmers have 490 kg, 588 kg and 882 kg of wheat respectively. Find the maximum capacity of a bag so that the wheat can be packed in exact number of bags.

(a) 290 kg **(b)** 98 kg

(c) 200 kg **(d)** 350 kg

Q5. When a number is divided by 7, its remainder is always:

(a) less than 7 **(b)** at least 7

(c) greater than 7 **(d)** at most 76

Q6. If one zero of the quadratic polynomial $x^2 + 3x + k$ is 2, then the value of k is

(a) 10 **(b)** -10

(c) 5 **(d)** -5

Q7. Zeroes of a polynomial can be expressed graphically. Number of zeroes of polynomial is equal to number of points where the graph of polynomial is:

(a) Intersects x-axis

(b) Intersects y-axis

(c) Intersects y-axis or x-axis

(d) None of the above

Q8. If a pair of linear equations is consistent, then the lines will be

(a) always coincident

(b) parallel

(c) always intersecting

(d) intersecting or coincident

Q9. The sum of ages of A and B is 49 years. A said to B, "I am twice as old as you were when I was as old as you are. Present age of A.

(a) 28 **(b)** 12

(c) 24 **(d)** 21

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Q10. The sum of two numbers is 27 and product is 182. The numbers are:
(a) 13 and 14 **(b)** 12 and 13
(c) 12 and 15 **(d)** 13 and 24

Q11. The altitude of a right triangle is 7 cm less than its base. If the hypotenuse is 13 cm, the other two sides are:
(a) Base = 12 cm and Altitude = 5 cm
(b) Base = 10 cm and Altitude = 5 cm
(c) Base = 14 cm and Altitude = 10 cm
(d) Base = 12 cm and Altitude = 10 cm

Q12. The quadratic equation $2x^2 - \sqrt{5}x + 1 = 0$ has:
(a) two distinct real roots
(b) no real roots
(c) two equal real roots
(d) more than 2 real roots

Q13. A train travels 360 km at a uniform speed. If the speed had been 5 km/h more, it would have taken 1 hour less. Find the speed of the train.
(a) 40 km/hr **(b)** 30 km/hr
(c) 50 km/hr **(d)** 60 km/hr

Q14. 30th term of the A.P: 10, 7, 4, ..., is
(a) 97 **(b)** -77
(c) 77 **(d)** -87

Q15. The missing terms in AP: __, 13, __, 3 are:
(a) 25, 5 **(b)** 15, 9
(c) 18, 8 **(d)** 19, 7

Q16. The line segment joining the points (3, -1) and (-6, 5) is trisected. The coordinates of point of trisection are
(a) (3, 3) **(b)** (- 3, 3)
(c) (3, – 3) **(d)** (-3,-3)

Q17. The points (1,1), (-2, 7) and (3, -3) are
(a) vertices of an equilateral triangle
(b) non-collinear
(c) vertices of an isosceles triangle
(d) collinear

Q18. If the points P(1, 2), B(0, 0) and C(a, b) are collinear, then
(a) a = b **(b)** a = -b
(c) a = 2b **(d)** 2a = b

Q19. The points (-4, 0), (4, 0), (0, 3) are the vertices of a
(a) Right triangle
(b) Equilateral triangle
(c) Isosceles triangle
(d) Scalene triangle

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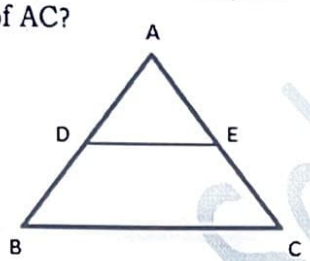
Q20. The distance between the points (– 1, – 5) and (– 6, 7) is
(a) 144 units
(b) 12 units
(c) 13 units
(d) 169 units

Q21. The coordinates of the origin are:
(a) (0, 0)
(b) (1, 1)
(c) (0, 1)
(d) (1, 0)

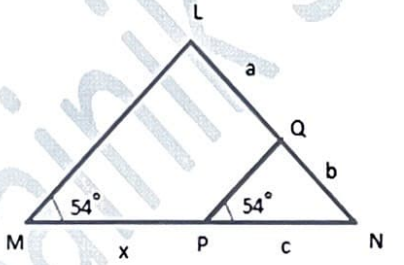
Q22. Which axis is horizontal in a Cartesian plane?
(a) Y-axis
(b) X-axis
(c) Origin
(d) Quadrant

Q23. In the given figure DE||BC, if AD = 5.9cm, DB = 4cm and AE = 7cm. What will be the value of AC?



(a) 2.3 cm
(b) 5.1 cm
(c) 10.9 cm
(d) 11.74 cm

Q24. In the given figure, LM||PQ, what will be the relation between x, a, b and c?



(a) a = cb
(b) ab = cx
(c) bx = ac
(d) cb = ax

Q25. If $\frac{AB}{XY} = \frac{BC}{XZ} = \frac{AC}{YZ}$ then, ΔABC & ΔXYZ are similar according to which test?
(a) AAA
(b) AA
(c) SAS
(d) SSS

Q26. The perimeters of two similar triangles ABC and PQR are 60 cm and 36 cm respectively. If PQ = 9 cm, then AB equals
(a) 6 cm
(b) 15 cm
(c)10 cm
(d) 24 cm

Q27. If radii of two concentric circles are 4 cm and 5 cm, then the length of each chord of one circle which is tangent to the other circle is
(a) 6 cm
(b) 3 cm
(c) 9 cm
(d) 1 cm

Q28. A tangent intersects the circle at:
(a) One point
(b) Two distinct point
(c) At the circle
(d) None of the above

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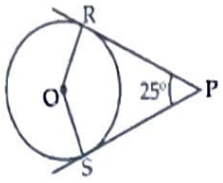
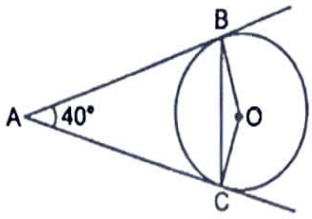
Q29. In the given figure, if ∠RPS = 25°, the value of ∠ROS is



(a) 135°
(b) 145°
(c) 155°
(d) 165°

Q30. In the given figure, AB and AC are tangents to the circle with centre O such that ∠BAC = 40°, then ∠BOC is equal to



(a) 140°
(b) 50°
(c) 40°
(d) 150°

Q31. If $\sin A = \frac{8}{17}$, what will be the value of cos A sec A?

(a) 2
(b) 1
(c) -1
(d) 0

Q32. If $\tan \alpha = \sqrt{3}$ and $\operatorname{cosec} \beta = 1$, then the value of $\alpha - \beta$?

(a) 30°
(b) - 30°
(c) 90°
(d) 60°

Q33. Find the correct trigonometric identity.

(a) $\tan^2\theta = \sec^2\theta - 1$
(b) $\tan^2\theta + \sec^2\theta = 1$
(c) $\tan^2\theta - \sec^2\theta = 1$
(d) $\tan^2\theta = \sec^2\theta + 1$

Q34. Evaluate $(\operatorname{cosec} A - 1)(\operatorname{cosec} A + 1)(\sec^2 A - 1)$.

(a) 1
(b) 0
(c) 43
(d) 34

Q35. $(1 + \operatorname{cosec} \theta)(1 - \operatorname{cosec} \theta) + \cot^2\theta$ is ----------

(a) Cot θ
(b) 1
(c) 0
(d) Tan θ

Q36. If at some time, the length of the shadow of a tower is $\sqrt{3}$ times its height, then the angle of elevation of the sun, at that time is:

(a) 15°
(b) 45°
(c) 30°
(d) 60°

Q37. An observer 1.5m tall is 28.5m away from a chimney. The angle of elevation from top of the chimney from her eyes is 45^0,what is the height of the chimney?

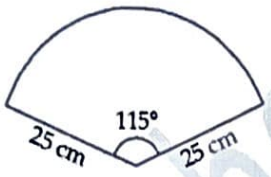
(a) 45m
(b) 30m
(c) 35m
(d) 40m

ROUGH

Q38. If the diameter of a circle is doubled, how does the area of the circle change?
(a) It remains the same
(b) It is doubled
(c) It is quadrupled
(d) It is halved

Q39. The motorcycle wheel is 35 cm radius. The number of revolutions per minute that the wheel has to perform in order to maintain a top speed of 66 km/h will be
(a) 200
(b) 600
(c) 100
(d) 500

Q40. A car has two wipers which do not overlap. Each wiper has a blade of length 25 cm sweeping through an angle of 115°. Find the total area cleaned at each sweep of the blades.



(a) 1200cm²
(b) 1500cm²
(c) 1223cm²
(d) 1255cm²

Q41. A right circular cone has a radius of 7 cm and a height of 24 cm. Find the area of the sheet required to make 7 such cones.
(a) 3846.5 cm²
(b) 1052 cm²
(c) 1153.4 cm²
(d) 3172 cm²

Q42. A metallic spherical shell of internal and external diameters 4 cm and 8 cm respectively, is melted and recast into the form of a cone with base diameter 8cm. The height of the cone is
(a) 12cm
(b) 14cm
(c) 15cm
(d) 18cm

Q43. Twelve solid spheres of the same size are made by melting a solid metallic cylinder of base diameter 2 cm and height 16 cm. The diameter of each sphere is
(a) 2 cm
(b) 3 cm
(c) 4 cm
(d) 6 cm

Q44. Find the surface area of the given solid which is in the form of a cone mounted on a hemisphere. The radius and height of the cone are 3cm and 14cm.
(a) 100.62 cm²
(b) 103.62 cm²
(c) 70 cm²
(d) 114.4 cm²

Q45. What is the volume of an article which is made by digging out a hemisphere from each end of a solid cylinder of height h and radius r?
(a) $\pi r^2h + 2(2\pi r^3)$
(b) $2\pi rh - 2(\pi r^2)$
(c) $2\pi rh + 2(\frac{2}{3}\pi r^2)$
(d) $\pi r^2h - 2(\frac{2}{3}\pi r^3)$

ROUGH

Q46. The probability of a leap year selected at random contain 53 Sunday is:

(a) $\frac{53}{366}$ **(b)** $\frac{1}{7}$

(c) $\frac{2}{7}$ **(d)** $\frac{53}{365}$

Q47. The probability that a prime number selected at random from the numbers (1,2,3, ...35) is :

(a) 12/35 **(b)** 11/35

(c) 13/35 **(d)** None of these

Q48. Cumulative frequency curve is also called

(a) Histogram **(b)** Ogive

(c) Bar graph **(d)** Median

Q49. One of the methods for determining mode is

(a) Mode = 2 Median -3 Mean

(b) Mode = 3 Median – 2 Mean

(c) Mode = 2 Mean – 3 Median

(d) Mode = 3 Mean – 2 Median

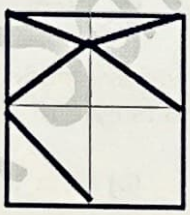
Q50. If 35 is removed from the data, 30, 34, 35, 36, 37, 38, 39, 40 then the median increases by:

(a) 2 **(b)** 1.5

(c) 1 **(d)** 0.5

SECTION B: REASONING
(Total Question – 35 Max Marks – 70)

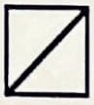
Q51. Identify the figure which completes the pattern.



(a) 

(b) 

(c) 

(d) 

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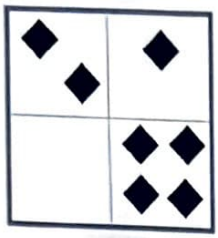
Q52. Identify the figure which completes the pattern.



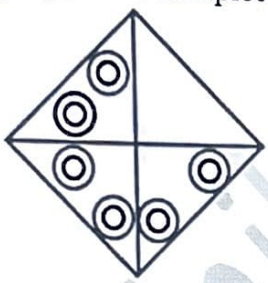
(a) 

(b) 

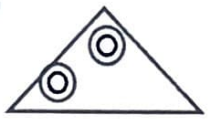
(c) 

(d) 

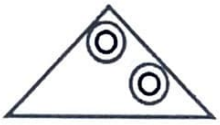
Q53. Identify the figure which completes the pattern.



(a) 

(b) 

(c) 

(d) 

Q54. Y, B, T, G, O, ?

(a) M **(b)** L
(c) N **(d)** K

Q55. 1, 4, 2, 8, 6, 24, 22, 88, ?

(a) 90 **(b)** 86
(c) 352 **(d)**154

Q56. 125, 126, 124, 127, 123, ----------

(a) 129 **(b)** 126
(c) 128 **(d)** 124

Q57. 2A11, 4D13, 12G17, ?

(a) 48J23 **(b)** 36I19
(c) 36J21 **(d)** 48J21

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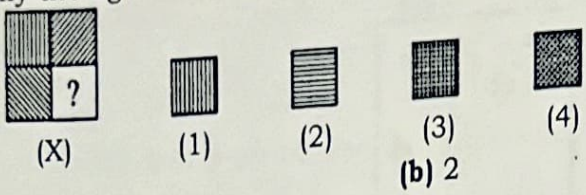
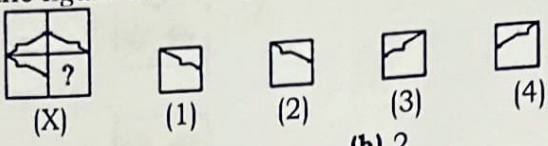
Q58. Identify the figure that completes the pattern.



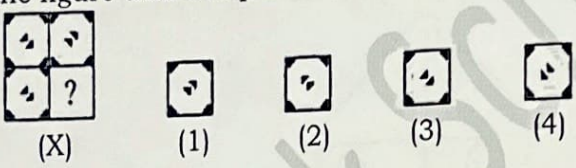
(a) 1 **(b)** 2
(c) 3 **(d)** 4

Q59. Identify the figure that completes the pattern.



(a) 1 **(b)** 2
(c) 3 **(d)** 4

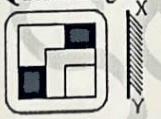
Q60. Identify the figure that completes the pattern.



(a) 1 **(b)** 2
(c) 3 **(d)** 4

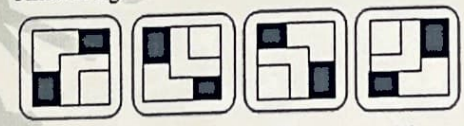
Q61. Which of the answer figures is exactly the mirror image of the given question figure when the mirror is held at XY?

Question figure :



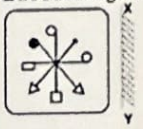
(a) (1)
(b) (2)
(c) (3)
(d) (4)

Answer figure :



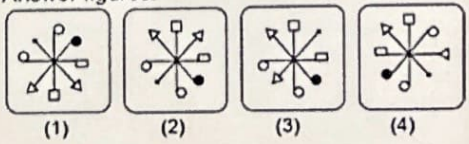
Q62. Which of the answer figures is exactly the mirror image of the given question figure when the mirror is held at XY?

Question figure:



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

Answer figures:



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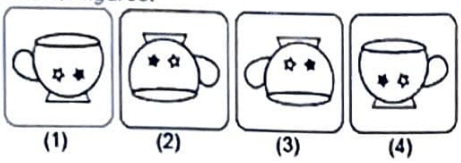
Q63. When the mirror is held at XY, find the exact mirror image of the given question figure from the answer figures?

Question figure:

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

Answer figures:

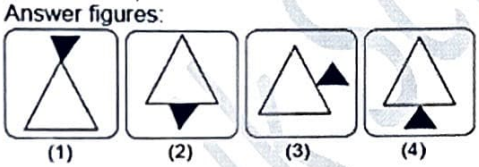


Q64. When the mirror is held at XY, find the exact mirror image of the given question figure from the answer figures?

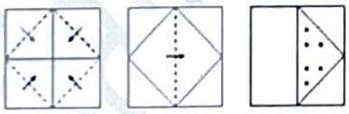
Question figure:

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

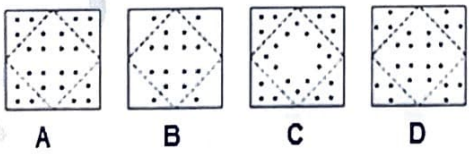
Answer figures:



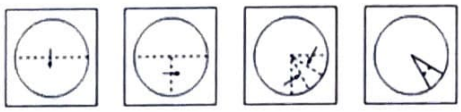
Q65. A square sheet of paper has been folded and punched as shown below. How will it appear when opened?



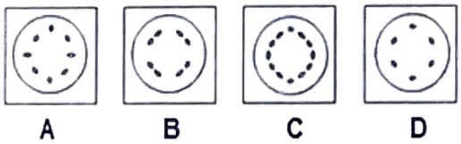
(a) A
(b) B
(c) C
(d) D



Q66. A circular sheet of paper has been folded and punched as shown below. How will it appear when opened?



(a) A
(b) B
(c) C
(d) D



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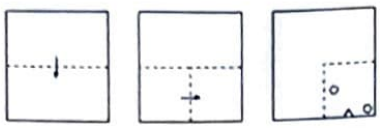
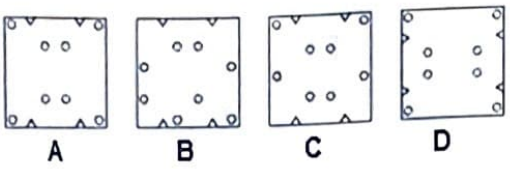
Q67. A square sheet of paper has been folded and punched as shown below. How will it appear when opened?

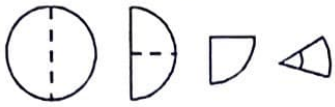


(a) A
(b) B
(c) C
(d) D

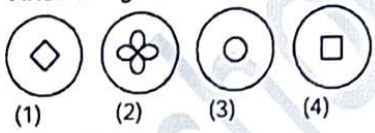


Q68. A piece of circular paper is folded and cut as shown below. How will it appear when opened? Select your response from answer figures.

Question Figure :



Answer figures :



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

Q69. What was the day on 12 June 1752?
(a) Monday
(b) Sunday
(c) Saturday
(d) Wednesday

Q70. Today is Wednesday. After 81 days, what will be the day?
(a) Monday
(b) Saturday
(c) Thursday
(d) Sunday

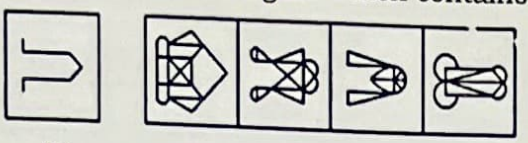
Q71. How many odd days are there in the month of July?
(a) 3
(b) 2
(c) 1
(d) 0

Q72. An accurate clock shows 8 o'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?
(a) 180°
(b) 150°
(c) 168°
(d) 160°

Q73. The angle between the minute hand and the hour hand of a clock when the time is 4.20, is:
(a) 20°
(b) 10°
(c)15°
(d) 0°

ROUGH

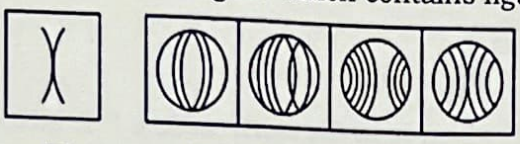
Q74. Find out the alternative figure which contains figure (X) as its part.



(X) (1) (2) (3) (4)

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

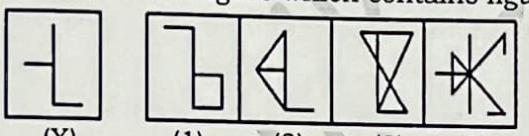
Q75. Find out the alternative figure which contains figure (X) as its part.



(X) (1) (2) (3) (4)

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

Q76. Find out the alternative figure which contains figure (X) as its part.



(X) (1) (2) (3) (4)

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

Q77. In a certain code "SAND" is written as "UCPF". How is "STONE" is written in that code?
(a) SRLFE
(b) UNSOP
(c) UVQPG
(d) UDLPQ

Q78. In a certain code "CODE" is written as "DPEF". How is "DEFENCE" is written in that code?
(a) EFGFODF
(b) HRAOSCV
(c) KWMCJFL
(d) ELDFSAP

ROUGH

Q79. In a certain code "FANTA" is written as "LGTZG". How is "CRICKET" is written in that code?

(a) NSKLIEA
(b) FKCLIEC
(c) IXOIQKZ
(d) OWMAMDK

Q80. One morning Jai and Veeru were talking to each other face to face at a crossing. If Veeru's shadow was exactly to the left of Jai, which direction was Jai facing?

(a) North
(b) West
(c) East
(d) South

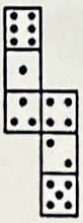
Q81. Y is in the East of X which is in the North of Z. If P is in the South of Z, then in which direction of Y, is P?

(a) North
(b) South
(c) South-East
(d) None of these

Q82. A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. Now in which direction is he from the starting place?

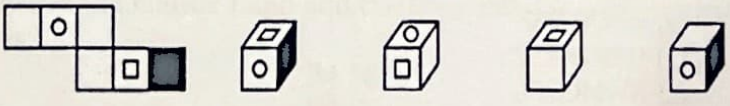
(a) West
(b) South-West
(c) North-East
(d) South

Q83. How many dots lie opposite to the face having three dots, when the given figure is folded to form a cube?



(a) 6
(b) 5
(c) 4
(d) 2

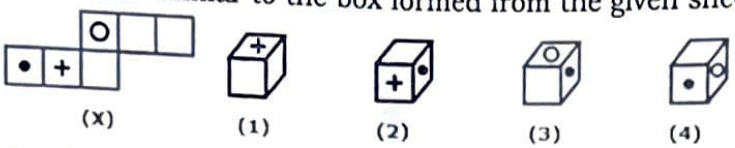
Q84. Choose the box that is similar to the box formed from the given sheet of paper (X).



(a) 1 and 2 only
(b) 2, 3 and 4 only
(c) 4 only
(d) 3 and 4 only

ROUGH

Q85. Choose the box that is similar to the box formed from the given sheet of paper



(a) 1 only
(b) 1, 2 and 3 only
(c) 2 and 3 only
(d) 1, 2, 3 and 4

SECTION C: SCIENCE
(Total Question – 30 Max Marks – 60)

Q86. Dilute acids like HCl, H_2SO_4 react with zinc to give:
(a) CO_2
(b) SO_2
(c) H_2
(d) O_2

Q87. Match the following:

(A) Liquid at room temperature	i. Lead
(B) Can be cut with a knife	ii. Silver
(C) Best conductor of heat	iii. Sodium
(D) Poor conductor of heat	iv. Mercury

(a) (A) →(iv) , (B)→ (iii), (C)→ (ii) , (D)→ (i)
(b) (A) →(ii) , (B)→ (iii), (C)→ (iv) , (D)→ (i)
(c) (A) →(iii) , (B)→ (ii), (C)→ (iv) , (D)→ (i)
(d) (A) →(ii) , (B)→ (iii), (C)→ (i) , (D)→ (iv)

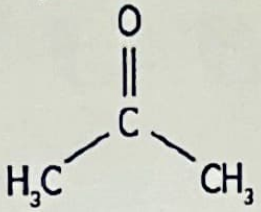
Q88. When Iron is added to a solution of $CuSO_4$, in water, the solution becomes:
(a) green in colour
(b) blue in colour
(c) pale yellow in colour
(d) colourless

Q89. Which of the following method is suitable for preventing an iron frying pan from rusting?
(a) Applying grease
(b) Applying paint
(c) Applying a coating of zinc
(d) All of these

Q90. Which of the following is not a property of non-metals?
(a) Good conductors of heat and electricity
(b) Brittle
(c) Non-lustrous
(d) Poor conductors of heat and electricity

ROUGH

Q91. The following image represents a carbon compound.



Which functional group is present in the compound?

(a) Alcohol
(b) Aldehydes
(c) Carboxylic acid
(d) Ketons

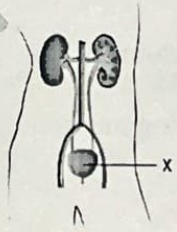
Q92. Soapy detergents and soap less detergent behave differently in hard water because they

(a) Have different pH values.
(b) Have different hydrophobic hydrocarbon chains.
(c) Have different hydrophilic heads.
(d) Are made by different chemical methods.

Q93. The exceptional ability of carbon to link each other in chains and rings is called:

(a) Catenation
(b) Coordination
(c) Polymarization
(d) Self compilation

Q94. The image shows the excretory system in humans.



What is the importance of the labelled part in the excretory system?

(a) It produces urine.
(b) It filters waste from the blood.
(c) It stores the urine till urination.
(d) It carries urine from the kidney to the outside.,

Q95. Which of the following is the correct equation for aerobic respiration?

(a) Glucose + Oxygen → Carbon dioxide + Water + Energy
(b) Carbon dioxide + Water + Energy → Glucose + Oxygen
(c) Glucose + Carbon dioxide → Water + Oxygen + Energy
(d) Oxygen + Water → Glucose + Carbon dioxide + Energy

ROUGH

Q96. The correct sequence of organs in the male reproductive system for the transport of sperm is
(a) Testis → vas deferens → urethra
(b) Testis → ureter → urethra
(c) Testis → urethra → ureter
(d) Testis → vas deferens → ureter

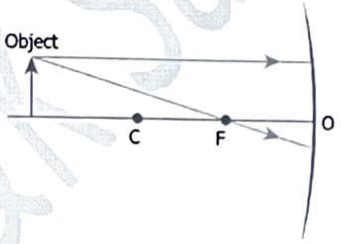
Q97. Which of the following method of contraception protects from acquiring sexually transmitted diseases?
(a) Surgery
(b) Condoms
(c) Copper-T
(d) Oral-pills

Q98. Which among the following diseases is not sexually transmitted?
(a) Syphyllis
(b) Hepatitis
(c) HIV-AIDS
(d) Gonorrhea

Q99. Which of the following is an example of genetic variation?
(a) One person has a scar, but his friend doesn't
(b) One person is older than the other
(c) Reeta eats meat, but her sister Geeta is a vegetarian
(d) Two children have different eye colour

Q100. Two pink-coloured flowers on crossing resulted in 1 red, 2 pink and 1 white-flower progeny. The nature of the cross will be:
(a) double fertilization
(b) self-pollination
(c) cross-fertilization
(d) no fertilization

Q101. The image shows the path of incident rays to a concave mirror.



Where would the reflected rays meet for the image formation to take place?
(a) Behind the mirror
(b) Between F and O
(c) Between C and F
(d) Beyond C

Q102. Assertion: Linear magnification of a mirror has no unit.
Reason: The ratio of height of the image to the height of the object is the linear magnification produced by mirror.
(a) Both A and R are true and R is correct explanation of the assertion.
(b) Both A and R are true but R is not the correct explanation of the assertion.
(c) A is true but R is false.
(d) A is false but R is true.

ROUGH

Q103. The unit of refractive index is

(a) Meter **(b)** Degree
(c) Diopter **(d)** It has no unit

Q104. Which of the given is NOT paired correctly?

(a) Solar furnace-concave mirror
(b) Rear -view mirror-convex mirror
(c) Magnifying glass -convex lens
(d) None of these

Q105. A person gets out in the sunlight from a dark room. How does his pupil regulate and control the light entering the eye?

(a) The size of the pupil will decrease, and less light will enter the eye
(b) The size of the pupil will decrease, and more light will enter the eye
(c) The size of the pupil will remain the same, but more light will enter the eye
(d) The size of the pupil will remain the same, but less light will enter the eye

Q106. Which of the following conditions is caused by the clouding of the lens in the eye?

(a) Myopia **(b)** Astigmatism
(c) Glaucoma **(d)** Cataract

Q107. 1 horse power is equal to :

(a) 700 W **(b)** 726 W
(c) 736 W **(d)** 746 W

Q108. The nature of graph between potential difference and electric current flowing through a conductor :

(a) Parabola **(b)** Circle
(c) Straight line **(d)** Hyperbola

Q109. A piece of wire of resistance R is cut into five equal parts. These parts are then connected in parallel. If the equivalent resistance of this combination is R1 then the relation R/R1 is:

(a) $\frac{1}{25}$ **(b)** $\frac{1}{5}$
(c) 5 **(d)** 25

Q110. Which of the following correctly describes the magnetic field near a long straight wire?

(a) The field consists of straight lines perpendicular to the wire.
(b) The field consists of straight lines parallel to the radial lines originating wire.
(c) The field consists of radial lines originating from the wire.
(d) The field consists of concentric circles centred on the wire.

Q111. State which of the following statement is true?

(a) An electric motor converts electrical energy into mechanical energy.
(b) An electric generator works on the principle of electromagnetic induction.
(c) The field at the center of a long circular coil carrying current will be parallel straight lines
(d) All the above

ROUGH

Q112. In an electrical circuit three incandescent bulbs A, B and C of rating 40 W, 60 W and 100 W respectively are connected in parallel to an electric source. Which of the following is likely to happen regarding their brightness?
(a) Brightness of all the bulbs will be the same
(b) Brightness of bulb A will be the maximum
(c) Brightness of bulb B will be more than that of A
(d) Brightness of bulb C will be less than that of B

Q113. Accumulation of non-biodegradable pesticides in the food chain, in increasing amount at each higher trophic level is known as _____
(a) Eutrophication
(b) pollution
(c) biomagnifications
(d) accumulation

Q114. Order of energy flow in ecosystem is :
(a) Sunlight → Herbivores → producers → carnivores
(b) Sunlight → producers → carnivores → herbivores
(c) Sunlight → herbivores → carnivores → producers
(d) Sunlight → producers → herbivores → carnivores

Q115. Acid rain is caused due to _____.
(a) Carbon oxides
(b) Nitrogen oxides
(c) Sulphur oxides
(d) Both b and c

SECTION D: ENGLISH
(Total Question – 25 Max Marks – 50)

Read the following passage and answer the following questions given at the end:

One day Nandu rode his horse to the village fair. On his way back he met Somendra, the merchant. The merchant was a crafty man, ready to do anything to earn some money. The villagers knew this. In fact no one knew what trick he would be up to next. Now, Nandu was poor and had no one in the world to call his own except a beautiful, white horse. He loved it more than anything else in the world. The merchant had his eye on the horse for a long time and tried to think of a way to get it for himself. Seeing Nandu, the merchant thought, Nandu is a simpleton. Let me see if I can trick him out of his horse. So he said to Nandu, You live all alone. How do you manage? What does a young boy like you need with a horse? Sell it to me and I shall make you rich in return. Nandu replied, "No I don't want to sell my horse."

But the merchant refused to give up so easily. He offered Nandu more money. Finally, when the offer reached five hundred gold coins, Nandu paused and said. Five hundred gold coins seems like a good price. But I have a condition. If you agree to it, I shall give you my horse. "What is it?", the merchant asked impatiently. "Give me the money right now and I shall give you my horse when I have given you ten lashes." After all he would resell the horse for over a thousand gold coins in the market. He would take twenty lashes for such a gain. He agreed instantly. He ran

ROUGH

home and got the money for Nandu and brought along his whip as well. Nandu counted the money carefully. He then took the whip and the lashes fell on the merchant's back in quick succession. By the eighth lash the merchant was almost in tears but he told himself that there were only two lashes to go and the horse would be his. The merchant held his breath waiting for the final lashes. But Nandu had mounted his horse and was riding off. "Wait!", shouted the merchant in anger. "What about the last lashes? Where are you going with the horse? We had a deal. Nandu stopped and said, "I agree to give you the horse only after I had given you ten lashes. But it is upsetting my horse. I'll give you the last lashes later. Till then goodbye!" "Come back you cheat!", the merchant shouted. But the crowd that had gathered around agreed with Nandu. A deal was a deal. Till the last lash was given, the horse could not belong to the merchant. Nandu rode away richer by five hundred gold coins and Somendra waited in vain for several days for the final lash which never came.

Q116. Why did the merchant offer to buy Nandu's horse?

(a) He was very fond of the horse and wanted it for himself
(b) It was his way of helping Nandu who was poor.
(c) The horse would be useful for carrying goods to the market.
(d) He hated Nandu and wanted to deprive him of something he loved.

Q117. Which of the following is TRUE in the context of the passage?

1. Nandu was an orphan.
2. The merchant was very persevering.
3. The merchant was fond of Nandu's horse.

(a) None
(b) Only 1
(c) Both 1 & 2
(d) All 1, 2 and 3

Q118. Why did Nandu set the condition of giving the merchant ten lashes?

(a) To discourage the merchant from buying his horse.
(b) To demonstrate how painful a whipping was so that the merchant would never hit the horse.
(c) To bargain with the merchant to offer more money.
(d) To outwit the merchant who was trying to cheat him.

Q119. Choose the word that is synonym of "crafty"

(a) Skilled
(b) Naive
(c) Cunning
(d) Honest

Q120. Choose the word that is synonym of "PAUSED"

(a) Halted
(b) Relaxed
(c) Ended
(d) Stuck.

Fill in the blank with appropriate answers.

Q121. It _____ raining since morning.

(a) Have been
(b) Has been
(c) Is
(d) Was

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Q122. When I saw him, he _____ playing chess.
(a) Is
(b) Was
(c) Will
(d) Shall

Q123. Identify the tense used in the given sentence. "You are always working on your laptop."
(a) Present indefinite tense
(b) Present perfect tense
(c) Present continuous tense
(d) Present perfect continuous tense

Q124. We _____ go to the fair if the rain stops, but let's wait and watch.
(a) Might
(b) Must
(c) Have to
(d) Wouldn't

Q125. Had you worked hard, you _____ have passed the examination.
(a) Would
(b) Shall
(c) Should
(d) Will

Q126. The girl _____ convince the policemen that she didn't jump the signal.
(a) was able to
(b) could
(c) need to
(d) should

Q127. I _____ the job of taking care of my younger brothers when my parents went out.
(a) Would get
(b) Should get
(c) Must have been
(d) Had better get

Q128. Public speaking _____ a skill.
(a) Are
(b) Have
(c) Has
(d) Is

Q129. Some of the rice _____ still left.
(a) Is
(b) Are
(c) Has
(d) Have

Q130. Measles _____ a common disease among children.
(a) Are
(b) Is
(c) Were
(d) Has

Q131. They said, "We cannot live without oxygen".
(a) They said that we cannot live without oxygen
(b) They said that they cannot live without oxygen.
(c) They said that they would not live without oxygen.
(d) They says that they cannot live without oxygen

Q132. He said to us, "Are you going to market today?"
(a) He asked us if we were going to market that day.
(b) He asked us if you are going to market that day.
(c) He asked us if we went to market that day.
(d) He asked us if we had gone to market that day

ROUGH

Q133. He said to me, "Do read the newspaper daily."
(a) He asked to me to read the newspaper daily.
(b) He asked me to do read the newspaper daily.
(c) He asked me to read the newspaper daily.
(d) He requested me to read the newspaper daily.

Q134. She said, "What a beautiful view!"
(a) She said that the view was beautiful.
(b) She exclaimed that the view is beautiful.
(c) She exclaimed with joy and said that the view was beautiful.
(d) She exclaimed that the view was beautiful.

Q135. They have always helped _____.
(a) Another **(b)** Several
(c) All **(d)** Each other

Q136. _____ is known about her achievements.
(a) Few **(b)** A Little
(c) little **(d)** None

Q137. Identify the word with the correct spelling.
(a) conceit **(b)** greive
(c) achieve **(d)** conceive

Q138. From the options below, identify the wrong one.
(a) Beg + ed = beged
(b) Begin + ing = beginning
(c) Kidnap + er = kidnapper
(d) Skill + ful = skilful

Q139. Do not go _____ he comes.
(a) since **(b)** from
(c) up to **(d)** till

Q140. You have opposed me, _____ I cannot help you.
(a) therefore **(b)** since
(c) for **(d)** so

ROUGH

SPACE FOR ROUGH