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DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO.

Roll No. :

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Total : 100 Questions

Time : 2 Hours

CLASS

6

ENGLISH MEDIUM

- ◆ The paper consists of Four sections

MATHS : Section A : (20 Questions), Section B : (5 Questions)

CHEMISTRY : Section A : (20 Questions), Section B : (5 Questions)

BIOLOGY : Section A : (20 Questions), Section B : (5 Questions)

PHYSICS : Section A : (20 Questions), Section B : (5 Questions)

- ◆ Each question carries 1 mark. For each correct response, the candidate will get 1 marks. For each incorrect response, 0.25 marks will be deducted from the total scores.
- ◆ All questions are compulsory.
- ◆ Use of calculator is not permitted. Write your Name, Roll No. and Class clearly on the OMR SHEET and do not forget to sign it.
- ◆ To mark your choice of answers by darkening the circles in the OMR SHEET, use an HB Pencil or a Blue / Black ball point pen only.
E.g. 11. (A) ● (C) (D)
- ◆ Rough work should be done in the blank space provided in the booklet.
- ◆ Return the OMR SHEET to the invigilator at the end of the exam.
- ◆ Write your Roll No. on the Question Paper too and take it home for future reference.

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MATHS – SECTION – A

1. Make the smallest 4- digit number by using any one digit twice 7, 0, 6.

(a) 6007 (b) 6070
(c) 6700 (d) 0067

2. How many times does the digit “1” appear in numbers from 1 to 100?

(a) 18 (b) 19
(c) 20 (d) 21

3. The product of first five whole numbers is

(a) 0 (b) 120
(c) 24 (d) 10

4. The total number of whole numbers between 2,842 and 2,892 is

(a) 49 (b) 50
(c) 51 (d) 52

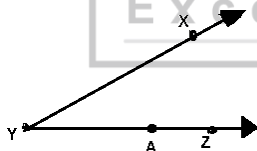
5. If the number 725498 is divisible by 11, the digit at is

(a) 1 (b) 2
(c) 6 (d) 0

6. The sum of all prime numbers between 10 to 25 is

(a) 83 (b) 84
(c) 85 (d) 86

7. In given figure $\angle XYZ$ cannot be written as



(a) $\angle Y$ (b) $\angle ZXY$
(c) $\angle ZYX$ (d) $\angle XYA$

8. Which of the following has no end points?

(a) $\overleftrightarrow{AB}$ (b) $\overline{CD}$
(c) $\overrightarrow{BC}$ (d) $\overrightarrow{EF}$

9. Through what angle does the hour hand of a clock through when it goes from 6 to 3?

(a) 90° (b) 180°
(c) 270° (d) 360°

10. The value of $25-5 \times 2+3-8 \div 2$ is

(a) 16 (b) 18
(c) 14 (d) 20

11. The algebraic expression for the statement: ‘product of x and a subtracted from the product of b and y’.

(a) $ax-by$ (b) $x+a-by$
(c) $by-ax$ (d) $xa-by$

12. Two consecutive integers between which the fraction $\frac{6}{7}$ lies are;

(a) 6 and 7 (b) 0 and 1
(c) 5 and 6 (d) 0 and 7

13. **Statement I:** Fractions With same numerator are called like fractions.

Statement II: Fractions with same denominator are called unlike fractions.

(a) Statement I is true and Statement II is false.
(b) Statement I is false and Statement II is true.
(c) Both Statement I and Statement II are true.
(d) Both Statement I and Statement II are false.

14. **Assertion (A):** Expressing 249 m into km is 249000 km.

Reason (R): $1 \text{ m} = \frac{1}{1000} \text{ km}$

(a) Both assertion and reason are correct and reason is the correct explanation of assertion.
(b) Both assertion and reason are correct but reason is not the correct explanation of assertion.
(c) Assertion is correct but reason is incorrect.
(d) Assertion is incorrect but reason is correct.

15. Match the Column I with column II.

	Column I		Column II
1.		P.	$\frac{2}{9} + \frac{1}{9}$
2.		Q.	$\frac{6}{8} - \frac{1}{8}$
3.		R.	$1 - \frac{3}{8}$
4.		S.	$\frac{5}{4} - \frac{3}{4}$

(a) $1 \rightarrow S, 2 \rightarrow P, 3 \rightarrow Q, 4 \rightarrow R$
(b) $1 \rightarrow Q, 2 \rightarrow P, 3 \rightarrow R, 4 \rightarrow S$
(c) $1 \rightarrow P, 2 \rightarrow Q, 3 \rightarrow S, 4 \rightarrow R$
(d) $1 \rightarrow Q, 2 \rightarrow P, 3 \rightarrow S, 4 \rightarrow R$

16. Which of the following statements (s) is / are true?

The fractions are equal to $\frac{4}{5}$ are

A. $\frac{40}{50}$

B. $\frac{12}{15}$

C. $\frac{16}{20}$

D. $\frac{9}{15}$

- (a) Only A and B (b) Only B and C
(c) Only A, B and C (d) Only B, C and D

17. Which verbal expression match the algebraic expression $13x$?

- A. 13 times x
B. x multiplied by 13
C. 13 made into x groups
D. the product of x and 13

- (a) Only A (b) Only B and D
(c) Only C (d) Only A, B and D

18. $2.66 + 1.88$ is equal to

A. 4.54

B. $45\frac{4}{10}$

C. $\frac{454}{100}$

D. 0.454

- (a) Only A and B (b) Only B and C
(c) Only A and C (d) Only A, B and C

19. Which of the following properties are not true for a parallelogram?

- A. its diagonals are equal.
B. its diagonals are perpendicular to each other.
C. The diagonals bisect each other.

- (a) Only A and B (b) Only B and C
(c) Only B (d) Only A and C

20. Which of the following statements is / are true?

- A. The HCF of two distinct prime numbers is 1
B. The HCF of two co prime numbers is 1
C. The HCF of two consecutive even numbers is 2
D. The HCF of an even and an odd numbers is even.

- (a) Only B and C
(b) Only A and C
(c) Only B, C and D
(d) Only A, B and C

Section -B

21. **Statement I:** Every number greater than 1 has many factors.

Statement II: Every number greater than 1 has many multiples.

- (a) Statement I is true and Statement II is false.
(b) Statement I is false and Statement II is true.
(c) Both Statement I and Statement II are true.
(d) Both Statement I and Statement II are false

22. **Assertion (A):** In the equation $7P - 12 = 2$ The variable is P.

Reason (R): P is the unknown that varies.

- (a) Both assertion and reason are correct and reason is the correct explanation of assertion.
(b) Both assertion and reason are correct but reason is not the correct explanation of assertion.
(c) Assertion is correct but reason is incorrect.
(d) Assertion is incorrect but reason is correct.

23. **Assertion (A):** 3:5::9:15 are equivalent ratios.

Reason(R): Both ratios are equal, when simplified.

- (a) Both assertion and reason are correct and reason is the correct explanation of assertion.
(b) Both assertion and reason are correct but reason is not the correct explanation of assertion.
(c) Assertion is correct but reason is incorrect.
(d) Assertion is incorrect but reason is correct.

24. Match the column I with the column II

	Column I		Column II
1.	42	P.	A perfect number
2.	15	Q.	A multiple of 7
3.	8	R.	A multiple of 3
4.	6	S.	A factor of 24

- (a) $1 \rightarrow S, 2 \rightarrow R, 3 \rightarrow P, 4 \rightarrow Q$
(b) $1 \rightarrow P, 2 \rightarrow Q, 3 \rightarrow S, 4 \rightarrow R$
(c) $1 \rightarrow P, 2 \rightarrow Q, 3 \rightarrow R, 4 \rightarrow S$
(d) $1 \rightarrow Q, 2 \rightarrow R, 3 \rightarrow S, 4 \rightarrow P$

25. A number is always divisible by 90 if
 A. it is divisible by both 2 and 45.
 B. It is divisible by both 5 and 18.
 C. it is divisible by both 9 and 10.
 D. it is divisible by both 6 and 14.
 (a) Only A and B (b) Only A and C
 (c) Only A, B and C (d) Only D

SCIENCE BIOLOGY

SECTION A

26. Painful joints on wrist, elbow and knee are characteristics of
 (a) Marasmus (b) kwashiorkor
 (c) Pellagra (d) Rickets
27. Which of the following is an example of purely behavioural adaptation?
 (a) Hibernation (b) Aestivation
 (c) Migration (d) mimicry
28. Which of the following is mismatched pair?
 (a) Fibrous root-wheat, rice
 (b) Tap root-maize, banana
 (c) Climber-Grapevine, pea
 (d) Creeper- Watermelon, pumpkin
29. Deciduous trees are found mostly in which of the following
 (a) Rain forest (b) Temperate forest
 (c) Boreal forest (d) Grassland
30. Which of the following is not found in rain forest?
 (a) Drip tips (b) Sloping branch
 (c) Epiphytes (d) Lionas
31. Which of the following is completely submerged aquatic plant?
 (a) Water hyacinth (b) vallisnaria
 (c) Lotus (d) Water lily
32. An instrument used for measuring the rate of transpiration is:
 (a) Photometer (b) Clinometers
 (c) Hygrometer (d) osmmeter
33. What type of leaves is present in submerged plants?
 (a) Spinous
 (b) Narrow, long and thin
 (c) Thick
 (d) Having layer of wax like structure.

34. The tendril in pea plant is a modified
 (a) Leaf (b) Stem
 (c) Stipules (d) Flower
35. The joint in between the adjacent vertebra in the back bones is
 (a) Hinge joint (b) Pivotal joint
 (c) Fixed joint (d) gliding joint
36. Bending of a plant towards light is called
 (a) Geotropism (b) Phototropism
 (c) Oxidation (d) Thigmotropism
37. Which of the following is incorrect matched
 (a) Femur-Bone of hind limb
 (b) Sternum-Breast bone
 (c) Humerus- Bone of forelimb
 (d) Pelvic Girdle- shoulder girdle.

38. **Statement I:** Rearing of honey bees is called sericulture.

Statement II: Rearing of fish is called piscicultur

- (a) Statement I is true Statement II is false.
 (b) Statement I is false Statement II is true.
 (c) Both Statement I and Statement II are true.
 (d) Both Statement I and Statement II are false

39. **Assertion (A):** Plants of same type can be found in differently locations.

Reason (R): Plants perform the process of seed dispersal.

- (a) Both assertion and reason are true and reason is the correct explanation of assertion.
 (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
 (c) Assertion is true but reason is false.
 (d) Assertion is false but reason is true.

40. Match the column.

	Column-I		Column-II
P.	Earthworm	1.	Jointed legs
Q.	Snail	2.	Scales
R.	Snake	3.	Bristles
S.	Cockroach	4.	Muscular foot

- (a) P → 2, Q → 4, R → 3, S → 1,
 (b) P → 3, Q → 4, R → , S → 1, T → 2
 (c) P → 2, Q → 3, R → 1, S → 4
 (d) P → 3, Q → 4, R → 2, S → 1

41. Which of the following statement (s) is / are false?
- (A) Snake slithers on the ground by producing wave like motion, scales and flexible bones help in carwing.
- (B) Snails move by contracting and relaxing the muscles of their body and adhering to the ground with the help of setae.
- (C) Fish swim in water with the help of their streamlined body.
- (D) Cockroaches posses jointed legs for moving and wings for flying
- (a) Only A and B (b) B Only
- (c) Only A and D (d) Only A and C
42. Which of the following statements (s) is / are true?
- (A) Parts of flowers are usually present in whorls
- (B) All plants have colourful flowers.
- (C) Pistil is female reductive part of a flower
- (D) Plants having leaves with reticulate venation have fibrous roof.
- (a) Only A and B (b) B Only
- (c) Only A and D (d) Only A and C
43. Which of the following statements (s) is/are incorrect?
- (A) The movement and locomotion of all animals is exactly the same
- (B) The cartilages are harder than bones
- (C) The finger bones do not have joints.
- (D) The fore arm has two bones.
- (a) Only A and B (b) B Only
- (c) Only A and D (d) Only A and C
44. Which of the following statements (s) is / are correct?
- (A) Microorganism are part of biotic component.
- (B) All birds do not have feathers.
- (C) All objects around use are made up of matter.
- (D) Hilly trees do not have flowers.
- (a) Only A and B (b) Only B
- (c) Only A and D (d) Only A and C

45. Which of the following statements (s) is / are false?
- (A) Deficiency of vitamin B helps to increase our appetite.
- (B) Haemoglobin is a carbohydrate
- (C) Deficiently of iron cause paleness.
- (D) Tomatoes contain vitamin 'C'.
- (a) Only A and B (b) Only B
- (c) Only A and D (d) Only A and C

SECTION B

46. **Statement I:** Starch is a simple carbohydrate
Statement II: Starch is insoluble in water
- (a) Statement I is true, Statement II is false.
- (b) Statement I is false, Statement II is true.
- (c) Both Statement I and Statement II are true.
- (d) Both Statement I and Statement II are false.
47. **Assertion (A):** Triceps is said to be an extensor muscle for elbow joint
Reason (R): triceps during extension of forum at the elbow joint
- (a) Both assertion and reason are true and reason is the correct explanation of assertion.
- (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) Assertion is true but reason is false.
- (d) Assertion is false but reason is true.
48. **Assertion (A):** Plant photosynthesises during day, where as they respire at night.
Reason (R): Photosynthesis can occurs in the presence of sunlight Where as respiration
- (a) Both assertion and reason are true and reason is the correct explanation of assertion.
- (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) Assertion is true but reason is false.
- (d) Assertion is false but reason is true.

49. Match the column.

	Column-I		Column-II
P.	Petiole	1.	Stalk of an anther
Q.	Filament	2.	Know like structure on stamen
R.	Style	3.	The part of a leaf
S.	Anther	4.	Connecting stalk between stigma and ovary

(a) P → 4, Q → 5, R → 1, S → 3

(b) P → 5, Q → 3, R → 2, S → 1

(c) P → 3, Q → 1, R → 4, S → 2

(d) P → 5, Q → 1, R → 2, S → 4

50. Which of the following statements (s) is or are correct?

(A) Bud is a non bloomed flower.

(B) Sweet potato is modified stem

(C) Pumpkin and bitter gourd are creepers

(D) Female part of flower is called Androecium

(a) Only A and B

(b) Only B

(c) Only A and D

(d) Only A and C

SCIENCE CHEMISTRY

SECTION A

51. The process of sedimentation and decantation can be used to separate

(a) Oil-water mixture

(b) Rice-water mixture

(c) Sand-water mixture

(d) All of these

52. If a mixture can be separated by magnetic separation, one of the constituent must be

(a) Ferrous

(b) Non-ferrous

(c) Precious

(d) Non-metallic

53. Which is not a property of air?

(a) It occupies space (b) It is transparent

(c) It is a solution (d) It is a compound

54. Which of the following can show the direction of wind?

(a) An anemometer (b) A wind mill

(c) A wind vane (d) A barometry

55. Which of the following enables us to drink a liquid through a straw?

(a) Humidity

(b) Temperature

(c) Atmospheric Pressure

(d) Composition of air

56. Lime water turns milky when exposed to air. This shows that air contains

(a) Carbon dioxide (b) hydrogen

(c) Nitrogen (d) oxygen

57. Which of the following gases does not dissolve in water?

(a) Oxygen

(b) Carbon dioxide

(c) methane

(d) None of these

58. Density of an object refers to

(a) product of mass and volume

(b) Addition of mass and volume

(c) Mass per unit temperature

(d) Mass per unit volume

59. The basic unit that make up all matter.

(a) Substance

(b) Element

(c) Atom

(d) Compound

60. Which of the following method is used to separate soluble impurities?

(a) Decantation

(b) Sedimentation

(c) Evaporation

(d) Filtration

61. Solubility of most of the solids with increase in temperature

(a) Increase

(b) decrease

(c) Remains the same

(d) is not affected

62. The percentage of which gas is maximum in exhaled air.

(a) Nitrogen

(b) Oxygen

(c) Carbon dioxide

(d) Other gases.

63. **Statement I:** Sublimation is a process in which a solid is directly converted to vapours without passing through liquid state.

Statement II: The dense particles stay at the top.

(a) Statement I is true Statement II is false.

(b) Statement I is true Statement II is true.

(c) Both Statement I and Statement II are true.

(d) Both Statement I and Statement II are false.

64. Assertion (A): Air pressure decreases with height.

Reason (R): The number of air molecules decreases as we go up.

- (a) Both assertion and reason are true, and reason is the correct explanation of assertion.
 (b) Both assertion and reason are true, but reason is not the correct explanation of assertion.
 (c) Assertion is true, but reason is false.
 (d) Assertion is false, but reason is true.

65. Match the column.

	Column-I		Column-II
P.	Iodine and sand	1.	Fractional distillation
Q.	Alcohol and water	2.	Separating funnel
R.	Kerosene and water	3.	Sublimation
S.	Sand and iron nail	4.	Magnetic separation

- (a) $P \rightarrow 3, Q \rightarrow 1, R \rightarrow 2, S \rightarrow 4$
 (b) $P \rightarrow 2, Q \rightarrow 3, R \rightarrow 1, S \rightarrow 4$
 (c) $P \rightarrow 2, Q \rightarrow 3, R \rightarrow 4, S \rightarrow 1$
 (d) $P \rightarrow 1, Q \rightarrow 2, R \rightarrow 3, S \rightarrow 4$

66. Which of the following statements (s) is /are true?

- (A) Mixture obtained by dissolving solutes in a solvent which can dissolve more solute
 (B) A solution which can dissolve more solute is called saturated solution.
 (C) The components of a mixture retain their Properties.
 (D) A mixture having same composition throughout is called
 (a) Only A and B
 (b) Only B
 (c) Only A and D
 (d) Only A and C

67. Which of the following statement (s) is/are true?

- (A) Due to ductile behaviour, a long wire can be drawn off a metal
 (B) Any item can be made of single material
 (C) Air is a mixture.
 (D) Silver is most sellable metal.

- (a) Only A and B (b) Only B
 (c) Only A and B (d) Only A and C

68. Which of the following statements (s) is/ are true?

- (A) Materials are grouped for convenience
 (B) Materials are grouped to study their properties
 (C) Materials are grouped for fun.
 (D) Grouping of material is not necessary

- (a) Only A and B (b) Only B
 (c) Only A and C (d) Only A and D

69. Which of the following statements (s) is/ are false

- (A) Carbon dioxide supports combustion
 (B) Air is transparent
 (C) Water vapour helps in formation of clouds
 (D) Air occupies a fixed space.

- (a) Only A and B (b) Only B
 (c) Only A and D (d) Only A and C

70. Which of the following statements (s) is / are correct?

- (A) Vinegar dissolves in water.
 (B) Chalk dissolves in water
 (C) Oil mixes in water
 (D) Sand down on water

- (a) Only A and B
 (b) Only B
 (c) Only A and D
 (d) Only A and C

SECTION B

71. Statement I: Classification of things can be done based on their size, shape, colour used etc.

Statement II: The properties of materials are different from each other except they all occupy space and have mass.

- (a) Statement I is true Statement II is false.
 (b) Statement I is true Statement II is true.
 (c) Both Statement I and Statement II are true.
 (d) Both Statement I and Statement II are false.

72. **Assertion (A):** On the basis of from transparency, material can be grouped as transparent, translucent and opaque.

Reason (R): oiled paper is translucent.

- (a) Both assertion and reason are true, and reason is the correct explanation of assertion.
 (b) Both assertion and reason are true, but reason is not the correct explanation of assertion.
 (c) Assertion is true, but reason is false.
 (d) Assertion is false, but reason is true.

73. **Assertion (A):** Air is a homogeneous mixture of gases.

Reason (R): The composition of every part of a homogeneous mixture is same.

- (a) Both assertion and reason are true, and reason is the correct explanation of assertion.
 (b) Both assertion and reason are true, but reason is not the correct explanation of assertion.
 (c) Assertion is true, but reason is false.
 (d) Assertion is false, but reason is true.

74. Match the column by choosing the correct option.

	Column-I (Molecule)		Column-II (Mass ratio of elements)
P.	Supports burning	1.	Varies from time to time
Q.	Water vapour and dust	2.	Earth worm
R.	Air spaces in soil	3.	Atmosphere
S.	Blanket of air	4.	Oxygen

- (a) $P \rightarrow 2, Q \rightarrow 4, R \rightarrow 3, S \rightarrow 1$
 (b) $P \rightarrow 4, Q \rightarrow 1, R \rightarrow 2, S \rightarrow 3$
 (c) $P \rightarrow 2, Q \rightarrow 3, R \rightarrow 4, S \rightarrow 1$
 (d) $P \rightarrow 1, Q \rightarrow 2, R \rightarrow 3, S \rightarrow 4$

75. Which of the following statements (s) is /are true?
 (A) Earth's atmospheres get thinner with increase in altitude.
 (B) Earth's atmosphere gets denser with increase in altitude.
 (C) Water is present in air in vapour form.
 (D) Although the earth is surrounded by air these is no air pressure acting on the surface of the earth.
 (a) Only A and B (b) Only B
 (c) Only A and D (d) Only A and C

PHYSICS

SECTION A

76. Why the shadow of the kite flying height in the sky is not seen on the ground?
 (a) Because the ground is too big.
 (b) Because of excessive light.
 (c) The region of complete darkness unable to reach the ground.
 (d) None of these
77. _____ is the positive terminal of an electric cell.
 (a) Metal disk (b) metal case
 (c) Metal cap (d) Metal base
78. The cylindrical container of electric cell is made of _____ and acts as negative terminal.
 (a) Copper (b) Zinc
 (c) Iron (d) Silver
79. Pinhole camera produces
 (a) An erect and small image.
 (b) An erect and enlarged image.
 (c) An inverted and small image.
 (d) An inverted and enlarged image.
80. Soft iron pieces are placed across the ends of bar magnets when stored. What are such pieces called?
 (a) Preservatives
 (b) Keepers
 (c) Compasses
 (d) Poles
81. _____ is the surest test of magnetism.
 (a) Attraction (b) Rotation
 (c) Repulsion (d) None

82. The arms of soldiers marching along the streets exhibit _____.
 (a) Rotatory motion
 (b) Circular motion
 (c) Periodic motion
 (d) Rectilinear motion
83. Periscope is a device
 (a) That uses reflection to see around corners
 (b) That uses the property of light that light travels in straight line.
 (c) Both the above.
 (d) None of these.
84. Gas filled in the bulb is _____.
 (a) Argon (b) Hydrogen
 (c) Oxygen (d) Carbondioxide
85. The splitting up of white light into seven colours on passing through a prism is known as.
 (a) Reflection of light
 (b) Rectilinear propagation of Light
 (c) Dispersion of light
 (d) Refraction of light
86. A car covers a distance of 40 km in first hour and 50 km in the second hour. Which type of motion is this?
 (a) Uniform motion
 (b) Non- uniform motion
 (c) Periodic motion
 (d) Rotational motion
87. The magnetic properties of a magnet cannot be destroyed by.
 (a) Heating
 (b) Dropping on a hard surface
 (c) Hammering
 (d) Boiling
88. **Statement I:** A bird sitting on an overhead power cable does not get electric shock.
Statement II: The bird is only in contact with one wire only which does not close the circuit. Therefore, Current does not flow into its body.
 (a) Statement I is true, Statement II is false.
 (b) Statement I is false, Statement II is true.
 (c) Both Statement I and Statement II are true.
 (d) Both Statement I and Statement II are false.

89. **Assertion (A):** An electric bulb has two terminals.
Reason (R): Two terminals of bulb are fixed in such a way that they do not touch each other.
 (a) Both assertion and reason are true and reason is the correct explanation of assertion.
 (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
 (c) Assertion is true but reason is false.
 (d) Assertion is false but reason is true.

90. Match the column.

	A		B
P	Fuse	1	Ammonium Chloride
Q	Electrical insulator	2	Tungsten
R	Dry cell	3	Tin and lead alloy
S	Filament	4	Quartz sand

- (a) $P \rightarrow 3, Q \rightarrow 4, R \rightarrow 1, S \rightarrow 2$
 (b) $P \rightarrow 2, Q \rightarrow 3, R \rightarrow 1, S \rightarrow 4$
 (c) $P \rightarrow 2, Q \rightarrow 1, R \rightarrow 4, S \rightarrow 3$
 (d) $P \rightarrow 3, Q \rightarrow 4, R \rightarrow 1, S \rightarrow 2$
91. Which of the following statement (s) is/are true?
(A) Vibrating string shows periodic motion.
(B) The movement of bus on a deserted high way road is periodic.
(C) The movement of Earth on its axis is periodic motion
(D) Second hand of a wrist watch shows periodic motion
 (a) Only A and B (b) Only B
 (c) Only A and D (d) Only A and C
92. Which of the following statement (s) is or are true.
(A) Pinhole camera is a camera without a lens.
(B) Pinhole camera produces upside down image of an object.
(C) In pinhole camera virtual image is formed on the screen.
(D) Image formed in pinhole camera is erect.
 (a) Only A and B (b) Only B
 (c) Only A and D (d) Only A and C

93. Which of the Following statement(s) is/are true?
 (A) Graphite is a good conductor of electricity
 (B) The filament of an electric bulb is connected to one terminal only.
 (C) Electric current flows from negative to positive terminal in a cell.
 (D) The filament of the electric bulb is connected two terminals of the battery.
 (a) Only A and B (b) Only B
 (c) Only A and D (d) Only A and C
94. Which of the following statement (s) is/are correct?
 (A) A kite always follows random motion.
 (B) Every periodic motion is an oscillation motion
 (C) Rotation of fan is an example of periodic motion
 (D) SI unit of length is foot.
 (a) Only A and B (b) Only B
 (c) Only A and D (d) Only A and C
95. Which of the following statement (s) is/are false.
 (A) The poles of magnet can be separated.
 (B) A freely suspended bar magnet remains in North- South direction.
 (C) Magnet can attract all metals.
 (D) Magnetic lines of force can pass through magnetic as well as non-magnetic substance.
 (a) Only A and B (b) Only B
 (c) Only A and C (d) Only A and D.

SECTION B

96. **Statement I:** A horse shoe magnet attracts more Iron filling at the u- shaped parts than at ends.
Statement II: Magnetic strength of horse shoe magnet is high at U-shaped part of the magnet.
 (a) Statement I is true, Statement II is false.
 (b) Statement I is false, Statement II is true.
 (c) Both Statement I and Statement II are true.
 (d) Both Statement I and Statement II are false.
97. **Assertion (A):** When we look in to the mirror we see our own face inside the mirror.
Reason (R): Mirror is made up of a transparent substance that allows the light to pass through it.

- (a) Both assertion and reason are true and reason is the correct explanation of assertion.
 (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
 (c) Assertion is true but reason is false.
 (d) Assertion is false but reason is true.

98. **Assertion (A):** Strength of electromagnet depends on the magnitude of current flowing through them.

Reason (R): Electro magnets are used to lift heavy weights.

- (a) Both assertion and reason are true and reason is the correct explanation of assertion.
 (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
 (c) Assertion is true but reason is false.
 (d) Assertion is false but reason is true.

99. Match the column.

	Column-I		Column-II
P.	Electro magnet	1.	Door bell
Q.	Magnetic material	2.	Compass
R.	Direction finder	3.	Gold
S.	Non-magnetic material	4.	Cobalt

- (a) $P \rightarrow 1, Q \rightarrow 4, R \rightarrow 2, S \rightarrow 3$
 (b) $P \rightarrow 3, Q \rightarrow 1, R \rightarrow 4, S \rightarrow 2$
 (c) $P \rightarrow 2, Q \rightarrow 1, R \rightarrow 3, S \rightarrow 4$
 (d) $P \rightarrow 3, Q \rightarrow 2, R \rightarrow 4, S \rightarrow 1$

100. Which of the following statements (s) is/are false?

- (A) Poles of magnets can be isolated
 (B) A permanetal magnet is a device that retains a magnetic property without a power solute.
 (C) Lode stone is a natural magnet
 (D) Artificial magnets was discovered in india.
 (a) Only A and B
 (b) Only B
 (c) Only A and D
 (d) Only A and C
 (a) Only A and B (b) Only B
 (c) Only A and D (d) Only A and C

ANSWER KEY

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



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Outstanding Results

95.96

Percentile

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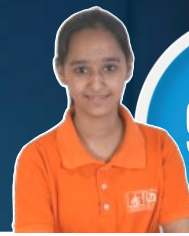
Outstanding Results

95.28

Percentile

PRIYA TAILOR

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Outstanding Results

94.91

Percentile

DIYA PANDYA

3 YEAR
Classroom Program



Outstanding Results

93.91

Percentile

DEEP PATWA

1 YEAR
Classroom Program



Outstanding Results

91.26

Percentile

DEEP PADHIYAR

2 YEAR
Classroom Program



Outstanding Results

84.29

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ADHYARU TAKSHA

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Classroom Program



Outstanding Results

81.90

Percentile

PAREKH VAISHVIK

2 YEAR
Classroom Program

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10th CBSE 2024

99%

1st
VADODARA
RANK



DHRUVIL MURAWALA

10th CBSE 2019

99%

1st
VADODARA
RANK



DIVIJA NANAVATI

10th CBSE 2018

98.4%

1st
VADODARA
RANK



NEEL CHAUHAN

10th CBSE 2022

99%

2nd
VADODARA
RANK



KAVYA SHAH

OLYMPIADS RESULT



SURYA VADREUVU
CLASS - 9



DHRUVIL MURAWALA
CLASS - 10



JIGYASHA ARYA
CLASS - 9



VEDANT SINGH
CLASS - 9



SNEH PANDITA
CLASS - 8



YASH SHARMA
CLASS - 9



GOHEL HARRY
CLASS - 9



TAIVISHI AJMERA
CLASS - 9



NAMANVEER SINGH
CLASS - 8



JAHAN GANGWANI
CLASS - 10



KAVYA PILLAI
CLASS - 11

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For Genius Student
9th & 10th

AIIS

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11th to 12th

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180
180

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180
180

PALAK DAVADRA
673

PERFECT SCORE IN ZOOLOGY
180
180

KAVYA SHAH
669

DIVYA NAIK
665

PERFECT SCORE IN ZOOLOGY
180
180

ANIK A NAGPAL
660

VISHAKHA SATA
655

PERFECT SCORE IN CHEMISTRY & ZOOLOGY
180
180

ZEEL SHAH
649

SANA RATHOD
645

ANANYA SHAH
644

MALAV TANK
639

PERFECT SCORE IN BOTANY
180
180

PRANSHU SHAH
637

MILAN PANCHAL
637

SHANTANU PARIKH
634

MANASHVEE SANKALP
633

PERFECT SCORE IN ZOOLOGY
180
180

RUSHI PATEL
630

PERFECT SCORE IN ZOOLOGY
180
180

MEET VYAS
614

PERFECT SCORE IN ZOOLOGY
180
180

NITYA SHAH
610

PERFECT SCORE IN ZOOLOGY
180
180

ANANYA SHRIVASTAVA
608

PARA PANCHAL
608

FALAK MANSURI
607

NARENDRA PALLAVAN
605

VISHWA BUTANI
602

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28 STUDENTS

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