

# SAMPLE PAPER 3

### **REASONING**

1. There is a certain relationship between figures (i) and (ii) Establish a similar relationship between figures (iii) and (iv) by selecting a suitable figure from the options for figure (iv):



2. Select the correct set of symbols that will fit in the blank spaces of  $5 \quad 0 \quad 3 \quad 5 = 20$ 

- a. x, x, x
- b. x, +, x
- с. *-,*+, х
- d. +, -, x









3. Find the number of squares in the figure below:



- a. 17
- b. 15
- c. 13
- d. 11
- 4. Two positions of the dice are shown below.

5



When number 2 is at the top which number will be at the bottom of the dice:

- a. 4
- b. 6
- c. 1
- d. 3
- 5. Select the correct pair from the options that best explains the relationship in the sample pair:

Sample:- COVID-19 $\rightarrow$ Covidshield

- a. Furlough  $\rightarrow$  Civil Servant
- b. Enemy  $\rightarrow$  Fortification
- c. Tourist  $\rightarrow$  Vacation
- d. Heat  $\rightarrow$  Furnace



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#### **SCIENCE**

- 6. Alnico is a strong ferromagnet. One of the main components of Alnico is
- a. Iron
- b. Actinium
- c. Carbonmonooxide
- d. Nobilium
- If a train travels at a velocity of 125 km per hour for 1 hour and 15 minutes. The distance covered by the train will be
- a. 78125m
- b. 10417m
- c. 312500m
- d. 156250m
- 8. The strength of the magnetic force is expressed in
- a. Candela
- b. Te<mark>sla</mark>
- c. Lumen
- d. Coulomb
- 9. Below is a pendulum in which the time taken by the bob to complete one oscillation is the Time period 'T'.







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What will happen to the time period (T) if the density of the bob is reduced to half:

- a. The time period will increase by two fold
- b. The time period will increase by half.
- c. The time period will decrease by two fold.
- d. The time period will not change

10. Electric motor converts

- a. mechanical energy into electrical energy
- b. electrical energy into mechanical energy.
- c. kinetic energy into electrical energy
- d. magnetic energy into electricalenergy

11. Which of the following do not work on magnetic forces

- a. mic
- b. Calorimeter
- c. Gold leaf electroscope
- d. Floppy

12.Identify the type of motion Earth undergoes while it moves around the sun:

- a. Circular
- b. Rectilinear
- c. Elliptical
- d. Curvilinear









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13. Magnets can have better magnetic property when

- a. Kept in a wool cloth for long time
- b. hammered
- c. Kept at around 0°C
- d. Kept at above 100<sup>°</sup>

14.Some iron nails are spread over a glass slab. A horse shoemagnet is moved below the glass as shown in the above diagram.



Which of the following statements will be correct

- a. the iron nails will be attracted by the magnet
- b. the iron nails will not be attracted by the magnet
- c. the iron nails will be repelled by the magnet
- d. the force of attraction will depend on the thickness of the glass slab and the strength of the magnet.

15.The least count of ameasuring tape is

- a. 1 mm
- b. 10 mm
- c. 1cm
- d. 1 inch









## **ACHIEVER'S SECTION**



d. Depends on the magnetic field of the bar magnets.







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Science Class- VI

Answer Key														
1.(d)	2.(c)	3.(b)	4.(d)	5.(b)	6.(a)	7.(d)	8.(b)	9.(d)	10.(b)	11.(b)	12.(c)	13.(c)	14.(d)	15.(a)
16.(b)	17.(a)	18.(a)	19.(d)	20.(d)										





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