



DELHI PUBLIC SCHOOL

SAIL TOWNSHIP, RANCHI

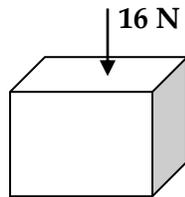
ANNUAL EXAMINATION (2017-18)

Class: VIII
Time:- 2½ Hrs.

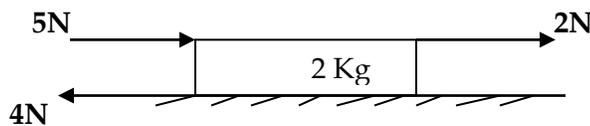
Subject:- Science
F.M. – 80

PHYSICS

- Q.1 Which of the following is not the SI Unit of pressure? [1]
(a) Nm^{-2} (b) Pa (c) $\text{Kg m}^{-1} \text{S}^{-2}$ (d) None of these
- Q.2 The value of persistence of vision is [1]
(a) $\frac{1}{16}$ second (b) $\frac{1}{10}$ second (c) $\frac{1}{30}$ second (d) 10 second
- Q.3 The boundaries of tectonic plates where earthquakes most likely to occur? [1]
(a) fault zone (b) epic zone (c) focus point (d) lithosphere
- Q.4 Earthquake of magnitude 6 is more than earthquake of magnitude 5 by [1]
(a) 2 times (b) 5 times (c) 10 times (d) 100 times
- Q.5 A force of 16N is distributed uniformly on one surface of a cube of edge 4cm. The pressure on the surface is $R \times 10^4$ Pascal . Find the value of R. [2]



- Q.6 Find the net force acting on an object whose mass is 2 Kg , as shown in figure. [2]



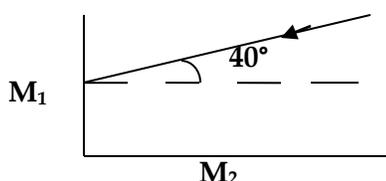
- Q.7 Describe an activity to locate the position of pole star on a clear moonless night in summer with a diagram. [2]
- Q.8 (a) Why Pluto is no longer a planet of the solar system? [1+2=3]
(b) Lightning can be seen at the moment when it occurs. Paheli observers lightning in her area . She hears the sound 5 second later she observed lightning .How far is she from the place where lightning occurs ? (speed of sound in air = 330ms^{-1})
- Q.9 (a) Describe about lightning conductor. [1X3=3]
(b) Name the scale on which the destructive energy of an earthquake is measured.
(c) Mention the two important causes of tremors.

- Q.10 (a) The weight of air in a column of the height of the atmosphere and area $15\text{ cm} \times 15\text{ cm}$ is nearly equal to the weight of an object of mass 225Kg. Why our body is not crushed under this huge weight?
 (b) Show that liquid exert equal pressure at the same depth by an activity. [1+2=3]
- Q.11 (a) Define an artificial satellite and mention its one important application
 (b) Explain the following terms:
 (i) Asteroids (ii) Comets (iii) Meteors (iv) Meteorites [1+2=3]

OR

Sketch the solar system with a neat and clean labelled diagram.

- Q.12 (a) If two plane mirrors are kept at an angle of 30° to each other. How many images will be formed?
 (b) State the laws of reflection
 (c) Draw the reflected ray from the second mirror by doing actual calculation. [1+2+2=5]



CHEMISTRY

- Q.1 Which of the following is the best conductor of electricity? [1]
 (a) silver (b) copper (c) aluminium (d) iron
- Q.2 Which of the following is not derived from a fossil fuel? [1]
 (a) LPG (b) Kerosene (c) Diesel (d) Biogas
- Q.3 Hot water can also be a pollutant. Explain. [2]
- Q.4 Why does the increased level of nutrients in the water affect the survival of aquatic organisms? [2]
- Q.5 In slum areas, in winter season, people often burn coke and anthracite to heat up their rooms and then sleep there the whole night. Sometimes, cases of unconsciousness or deaths are reported from their houses, not because their houses catch fire but because of the poisonous gases accumulated in their rooms.
 (a) What values are expressed in the above paragraph? [1]
 (b) How is poisoning caused by coke and anthracite? [2]
- Q.6 (a) Define calorific value of a fuel. [1+2=3]
 (b) Why does a paper cup containing water not burn when placed over a flame?
- Q.7 Give reasons: [1x3=3]
 (a) Water is not used to control fires involving electrical equipments
 (b) The use of CNG in automobiles has reduced pollution in our cities.
 (c) It is difficult to burn a heap of green leaves but dry leaves catch fire easily.
- Q.8 Take a piece of burning charcoal and collect the gas in a test tube. [1+2=3]
 (a) How will you find the nature of the gas?
 (b) Write down equations of all the reactions taking in this process

- Q.9 Complete the equations: [1x3=3]
- (a) sulphur dioxide (SO_2) + Water(H_2O) \rightarrow
- (b) Copper sulphate (CuSO_4) + Zinc (Zn) \rightarrow
- (c) copper(Cu) +water (H_2O) + carbon dioxide (CO_2) + Oxygen (O_2) \rightarrow
- Q.10 (a) What is potable water? [1]
- (b) How can you save water? [2]
- (c) How water can be made safe for drinking? [2]

OR

- (a) Describe the threats to the beauty of Taj-Mahal . [2]
- (b) Explain circumstances leading to acid -rain .How does acid rain affect us? [1½ + 1½]

BIOLOGY

- Q.1 Choose and write the correct option:- [1x2=2]
- (a) All the living matter in a cell is called
- (i) Endoplasm (ii) Protoplasm (iii) Cytoplasm (iv) Cellsap
- (b) Which of the following is not an oviparous animal
- (i) Snake (ii) Fish (iii) Rat (iv) Frog
- Q.2 Give very short answer for the following questions: [1x3=3]
- (a) Name one wild life sanctuary and one national park contained in Panchmarhi BiosphereReserve.
- (b) What do the testes in a man produce?
- (c) Name an endocrine gland which secrets growth hormone.
- Q.3 Answer the following questions in short:- [2x4=8]
- (a) List two functions of chlorophyll in plant cells.
- (b) Write four consequences of deforestation.
- (c) Why do frogs and fish lay hundreds of eggs? Give two reasons.
- (d) Mention any two ways in which AIDS virus can be transmitted from an infected person to a normal person.
- Q.4 Answer the following questions:- [3x3=9]
- (a) Draw a neat and well-labelled diagram of a "Plant Cell".
- (b) What is meant by migration? Why do animals migrate? Give two reasons.
- (c) (i) What are hormones? What will happen if the water in which tadpoles are growing does not contain sufficient iodine?
- (ii) Name the hormone which is responsible for metamorphosis in insects and frogs.
- Q.5 Answer any one of the following in detail:- [5x1=5]
- (a) (i) What is meant by reproduction?
- (ii) Write two differences between asexual and sexual reproduction.
- (iii) Draw a neat and well-labelled diagram of budding in hydra.

OR

- (b) (i) Define asexual reproduction.
- (ii) How does an Amoeba reproduce? Explain with the help of labelled diagram.