

SUMMATIVE ASSESSMENT I – 2015-16
SCIENCE / Class – VIII

Time allowed: 3hrs

MM90

- Answer the questions in the same order. Draw diagrams wherever necessary.

SECTION A – PHYSICS

(30)
2

Q1 Fill in the blanks

- Sliding friction is _____ than the static friction but _____ than rolling friction.
- Sound is produced by _____ objects.
- The north pole of a magnet _____ the north pole of another magnet.

Q2 State True or False

- The human voice box is called farinx. **F**
- Liquid exerts pressure on the walls of its container. **F**
- Friction produces heat. **T**
- Noise pollution may cause partial hearing impairment. **T**

2

Q3 Define the following (any two)

- Atmospheric pressure
- Frequency of vibration
- Spring balance

2

Q4 Draw a neat and labelled diagram of vibrating simple pendulum.

2

Q5 Answer the following (any five)

- What is amplitude and time period?
- What is a contact force? Give examples.
- Explain why objects moving in fluids must have special shapes.
- A pendulum oscillates 40 times in 4 seconds. Find its time period and frequency.
- Define pressure. What is the relation between pressure, force and area? State the units in which pressure is measured.
- Name the various types of forces.
- Calculate the pressure when force of 200N is exerted on an area of (i) 10m^2
(ii) 5m^2

10

Q6 Name the types of forces involved in the following:

- A horse pulling a cart. **M**
- A sticker attached to steel almirah without glue. **E**
- A coin falling to the ground on slipping from hand. **G**
- A plastic comb rubbed in dry hair picking up tiny pieces of paper. **E**
- A moving boat coming to rest when rowing is stopped. **F**

5

Q7 What is friction? A car is moving towards North, what will be direction of force of friction acting on this car due to surface of road?

3

Q8 Give two methods each by which we can (a) Reduce friction (b) Increase friction

4

SECTION B – CHEMISTRY

(30)
1x6

Q9 Choose the correct answer:

- Gold, silver, copper, zinc etc. are placed in the category of
i) metals ii) non-metals iii) metalloids iv) none of these
- Symbol of zinc is
i) ZN ii) Zn iii) Zn iv) zN
- The material which is not biodegradable is
i) cardboard ii) cotton gauge iii) dried leaves iv) nylon rope
- Valency of ferric is
i) +2 ii) +3 iii) -2 iv) -3
- A material which can be easily moulded into various forms is called
i) plastic ii) wool iii) cotton iv) jute
- Non-metal react with oxygen to form their oxides which are generally
i) neutral in nature ii) acidic in nature iii) basic in nature iv) none of these

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- Q10 Give reasons for the following: 1x3
 a) Pickles are not stored in aluminium vessels.
 b) Plastics are used to insulate refrigerators.
 c) Coil of heating element of a heater is made up of metal.
- Q11 Write the formula of the following compounds 1x4
 a) Barium phosphate c) Cuprous chloride
 b) Aluminium dichromate d) Magnesium hydroxide
- Q12 Give two examples which indicate that nylon fibres are stronger than cotton fibres. 2
- Q123 When gold ornaments are sent to jeweller for polishing, they always lose small amount of weight. Explain how does this happen. 2
- Q184 State three differences between metals and non-metals on the basis of their physical properties. 3
- Q15 You want to buy a few summer dresses, which fabric would you choose and why? 3
- Q16 Differentiate between thermoplastic and thermosetting plastics and give one example of each. 3
- Q17 Iron nails are placed in copper sulphate solution for some time. State your observation. Give reasons for your observation and also write the equation of the reaction. 1+1+2

SECTION C – BIOLOGY

(30)

Choose the correct answer:

- Q18 The following is an antibiotic 1
 a) Sodium bicarbonate b) Streptomycin c) Calcium hydroxide
- Q19 A common preservative added to jams and squashes to prevent their spoilage is 1
 a) Aluminium nitrate b) Sodium hydroxide c) Sodium benzoate
- Q20 The following is an example of a Rabi crop 1
 a) Wheat b) Soya bean c) Cotton
- Q21 The plant disease called *citrus canker* is spread by this microorganism 1
 a) Fungus b) Virus c) Bacteria
- Q22 The process of planting new trees in an area, for the first time, is called 1
 a) Deforestation b) Afforestation c) Reforestation
- Q23 A machine used for cutting the matured crop is 1
 a) Hoe b) Harvester c) Plough
- Q24 The Panchmarhi Biosphere Reserve is found in 1
 a) Maharashtra b) Andhra Pradesh c) Madhya Pradesh
- Q25 The process of conversion of sugar into alcohol is called 1
 a) Nitrogen fixation b) Fermentation c) Moulding
- Q26 During the process of pasteurisation of milk, it is heated to 1
 a) 70°C b) 140°C c) 100°C

Answer the following questions in detail:

- Q27 Explain what weeds are. Why should we control them? 2
- Q28 Explain how fertilisers are different from manure. 3
- Q29 Why should we conserve biodiversity? 3
- Q30 Differentiate between: 1+2
 a) Flora and fauna b) Wildlife sanctuary and Biosphere Reserve
- Q31 What is irrigation? Describe any one method of irrigation which conserves water. 1+2
- Q32 a) Differentiate between antibiotics and antibodies. 2+1
 b) Name any two diseases which can be prevented by vaccination. TB, SP
- Q33 What are the causes and consequences of deforestation? 1+3