

MAJOR EXAMINATION

SUBJECT- SCIENCE

Maximum Marks : 80

Class –VIIIth

Time : 3 Hours

GENERAL INSTRUCTIONS

04-02-2019

I. The question paper is divided into three sections :

SECTION A :

Physics

25 MARKS

1 questions of 2 mark each, 3 questions of 3 marks each, 2 questions of 5 marks each and 2 Practical/Activity/knowledge based questions of 2 marks each.

SECTION B :

Chemistry

25 MARKS

1 questions of 2 mark each, 3 questions of 3 marks each, 2 questions of 5 marks each and 2 Practical/Activity/knowledge based questions of 2 marks each.

SECTION C :

Biology

30 MARKS

2 questions of 2 mark each, 4 questions of 3 marks each, 2 questions of 5 marks each and 2 Practical/Activity/knowledge based questions of 2 marks each.

II. All questions are compulsory.

III. You may attempt any section at a time.

IV. All questions of that particular section must be attempted in the correct order.

V. Use only pencil to draw the diagram.

SECTION –A

1. Write the SI units of : [2 Marks]
(a) force (b) pressure
2. Write any three ways to reduce friction. [3 Marks]
3. Define the following terms : (any three) [1 × 3 = 3 Marks]
(a) Time period
(b) Wavelength
(c) Pitch
(d) Echo
(e) Timbre
4. What do you mean by constellations? Draw any two constellations. [3 Marks]
5. (a) Define for natural phenomena : [2 + 3 = 5 Marks]
(i) epicentre of an earthquake
(ii) step ladder
(b) Write any three safety measures for prevention against shocks.
6. Draw a well labelled structure of human eye. Write uses of any three parts of eye. [5 Marks]

Or

With the help of diagrams show:

- (a) Dispersion of white light by prism
- (b) Reflection through plane mirror
- (c) Refraction by parallel glass slab
- (d) Rectilinear propagation of light
- (e) Refraction of light going from air into water

7. Draw a well labelled diagram for electroplating of copper on iron spoon. [2 Marks]
8. Give two practical examples from daily life which proves rectilinear propagation of light. [2 Marks]

SECTION –B

9. Explain why plastic containers are favoured for storing food. [2 Marks]
10. Explain why the following are made of thermosetting plastics. [3 Marks]
(a) Saucepan handles
(b) Electric plugs/switches/plug boards
11. Give three physical properties of metals [3 Marks]
12. Give reasons for the following. [3 Marks]
(a) Aluminium foils are used to wrap food items.
(b) Sodium and potassium are stored in kerosene.
13. Explain the process of formation of petroleum. [5 Marks]
14. One day Reeta went to a jeweller's shop with her mother. Her mother gave an old gold jewellery to the goldsmith to polish. Next day when they brought the jewellery back, they found that there was a slight loss in its weight. Can you suggest a reason for the loss in weight? [5 Marks]
15. Covering a blanket around a person's clothes when it catches fire, puts fire off. Why is that so? [2 Marks]
16. In an experiment 4.5 kg of a fuel was completely burnt. The heat produced was measured to be 180,000 kJ. Calculate the calorific value of the fuel. [2 Marks]

SECTION –C

17. Choose the correct answer [2 Marks]
(i) The bacterium promotes the formation of curd
(A) Lactobacillus (b) Streptococcus (C) Diplococcus (D) Yeast
(ii) Endocrine glands release hormones in
(A) Duct (B) Bone marrow (C) Blood (D) Organ's cavity
18. Fill in the blanks [2 Marks]
(i) Soil crumbs are broken with the help of _____
(ii) Ganga action plan was launched in _____
19. Give one word answer for the following [3 Marks]
(i) Water suitable for drinking.
(ii) Egg laying animals.
(iii) Stoppage of menstruation.
20. Differentiate between the following [3 Marks]
(a) Plant cell and Animal cell
(b) Oviparous and Viviparous
(c) Testes and Ovary
21. (i) Define adolescence [3 Marks]
(ii) Define air pollutant? Write the name of two air pollutant.
22. (i) Define balanced diet. [3 Marks]
(ii) Draw a diagram of mitochondria
(iii) What is the function of mitochondria

- 23.** Draw a well labelled diagram of an Amoeba, a Nerve cell, a Sperm, an alga, a fungus **[5 Marks]**
- 24.** Define the following terms **[5 Marks]**
- (a) Antibiotic
 - (b) Reproduction
 - (c) Global warming
 - (d) Water pollution
 - (e) Carbon monoxide poisoning
- 25.** Which staining solution you will use to stain cheek cells (animal cells)? Write down the observations when you see an animal cell in microscope. **[2 Marks]**
- 26.** When you boil hen's egg. What do you observe? Is hen's egg made up of a single cell or multiple cell ? **[2 Marks]**