

January Memories

Photo 1: fghc

1. This question paper consists of 39 questions in 5 sections.

2. All questions are compulsory. However, an internal choice is provided in some questions. A student is expected to attempt only one of these questions.

3. Section A consists of 20 objective type questions carrying 1 mark each.

4. Section B consists of 6 Very Short questions carrying 02 marks each. Answers to these questions should be in the range of 30 to 50 words.

5. Section C consists of 7 Short Answer type questions carrying 03 marks each. Answers to these questions should be in the range of 50 to 80 words.

6. Section D consists of 3 Long Answer type questions carrying 05 marks each. Answer to these questions should be in the range of 80 to 120 words.

7. Section E consists of 3 source-based/case-based units of assessment of 04 marks each with sub-parts.

Section A

1. The temperature-time graph given alongside shows the heating curve for pure wax.

What is the melting point of the substance?

a) 110°C b) 90°C
c) 9°C d) 15°C

2. Which of the following acts as a garbage disposal system of the cell?

a) Vacuole b) Lysosome
c) Peroxisome d) Golgi body

3. In which of the following cases of motion, the distance moved and the magnitude of displacement are equal?

Photo 2:

30. Ram's family was worried about heavy electricity bills to be paid. Their neighbour Mohan suggested some easy and effective steps to reduce the same. Neer month's bill came as a relief to Ram, as the consumption of electricity had reduced by 50 units and so had the bill.

a. In what other aspects of life can this situation help?

b. What is the unit of energy?

c. Write any three steps that you think Mohan might have suggested to Ram.

31. The velocity-time graph of a ball moving on the surface of the floor is as shown in the figure. Calculate the force acting on the ball, if mass of the ball is 100 g.

32. What is prokaryotic cell? Differentiate between prokaryotic cell & eukaryotic cell?

OR

If you are provided with some vegetables to cook, we generally add salt to the vegetables during cooking process. After adding salt, vegetables releases water. What mechanism is responsible for this?

33. Diagrammatically show the difference amongst three types of muscle fibres.

Section D

34. The weight of any person on the moon is about 1/6 times that on the earth. He can lift a mass of 15 kg on the earth. What will be the maximum mass, which can be lifted by the same force applied by the person on the moon?

OR

35. What are the differences between the mass of the object and its weight?

36. Draw a neat labelled diagram of a eukaryotic nucleus. How is it different from the nucleoid?

OR

36. Draw a neat labelled diagram of an animal cell.

37. Iron filings and sulphur were mixed together and divided into two parts, A and B. Part A was heated strongly while part B was not heated. Dilute hydrochloric acid was added to both the parts and evolution of gas was seen in both the cases. How will you identify the gases evolved?

Section E

37. Read the following text carefully and answer the questions that follow:

Given below is the diagram of the human nerve cell.

i. Label the part (A) and (B). (1)

ii. What is the function of nervous tissue? (1)

iii. Mention all part of the human body composed of nervous tissue. (2)

OR

February Memories

No Memories Recorded

March Memories

No Memories Recorded

April Memories

No Memories Recorded

May Memories

No Memories Recorded

June Memories

No Memories Recorded

July Memories

No Memories Recorded

