

# HALF YEARLY EXAMINATION SAMPLE QUESTION PAPER

Class - IX  
Time - 3 Hours

Subject - Science  
Maximum Marks- 80

## General Instructions:

- The question paper comprises four sections A, B, C and D. All questions are compulsory.
- Section-A contains multiple choice questions (MCQs), very short answer questions and assertion - reason type questions carrying 1 mark each. Answers to these should be given in one word or one sentence.
- Section-B are short answer type questions, carrying 2 marks each. Answers to these questions should be in the range of 30 to 50 words.
- Section-C are short answer type questions, carrying 3 marks each. Answers to these questions should be in the range of 50 to 80 words.
- Section-D are long answer type questions carrying 5 marks each. Answer to these questions should be in the range of 80 to 120 words.
- There is no overall choice. However, internal choices have been provided in some questions. A student has to attempt only one of the alternatives in such questions.
- Wherever necessary, neat and properly labeled diagrams should be drawn.

## PHYSICS

### SECTION - A

- What is the quantity measured by slope of velocity- time graph? [1]
- An athlete completes one round of circular track of diameter 200 m in 40 s. What is the distance covered at the end of 2 minutes and 20 seconds? [1]
- Draw velocity-time (v-t) graph for a body falling freely under the effect of gravity (take upward direction as positive and downward as negative). [1]
- A mass of 5 kg is acted upon by force of 2 N, starting from the rest how much distance is covered by mass in 10 s? [1]
- Write the importance of universal law of gravitation. [1]

OR

State Newton's universal law of gravitation.

- What is the numerical value of universal gravitational constant? Write its SI unit. [1]
- Read the following and answer any four questions from 7 (i) to 7 (v) [1 x 4 = 4]  
Suppose the boy first runs a distance of 100 metres in 50 seconds in going from his home to the shop in the East direction, and then runs a distance of 100 metres again in 50 seconds in the reverse direction from the shop to reach back home from where he started.

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**Karin Nielsen-Saines**



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