

SAMPLE PAPER –UNIT TEST – I, 2019-20
SCIENCE
CLASS – IX

Time Allowed: 45 min

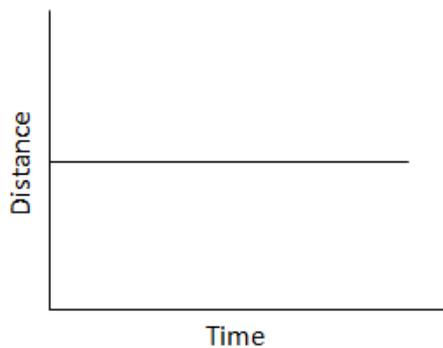
Maximum Marks: 20

General Instructions:

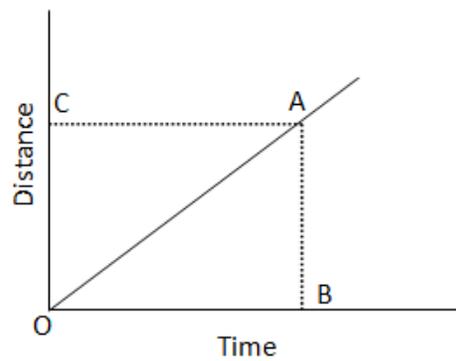
1. The question paper comprises of **three** Sections, A, B and C. You are to attempt **All** the sections.
2. **All** questions are **compulsory**.
3. Questions number **1 to 3** in Section A are **one-mark MCQ's** with single correct option. Mention the appropriate answer in the answer sheet.
4. Question numbers **4 to 7** in Section B are **three-marks** questions. These are to be answered in about **50 words** each.
5. Question number **8** in Section C is a **five-marks** question. It is to be answered in about **70 words**.

SECTION A

- 1** The distance-time graphs of two objects 'P' and 'Q' are shown in the given figure. What can be deduced about the motion of the objects? **1**



Object 'P'



Object 'Q'



- [a] Object 'P' is having uniform acceleration and Object 'Q' is in non uniform motion
- [b] Object 'P' is at rest and Object 'Q' is in uniform motion
- [c] Object 'P' is in non uniform motion and Object 'Q' is in uniform motion
- [d] Object 'P' is in uniform motion and Object 'Q' is in non uniform motion

- 2** Under what conditions does a liquid converts into gases? **1**

- [a] Lowering temperature
- [b] Increasing pressure
- [c] Decreasing pressure
- [d] Decreasing pressure and increasing temperature

- 3 The area under graph between two quantities is given in the unit m/s. the quantities are: 1
- [a] Speed and time
 - [b] Distance and time
 - [c] Acceleration and time
 - [d] Velocity and time

SECTION B

- 4 Define latent heat of vaporisation. What is the difference between boiling and evaporation? Convert 373 K into °Celsius. 3
- 5 [a] What term is used to denote the change in velocity with time? 3
- [b] The displacement of a moving object in a given interval of time is zero. Would the distance travelled by the object also be zero? Give reason for your answer.
- 6 Describe through an activity that particles of matter are very small in size. 3
- 7 Give reason: 3
- [a] A desert cooler cools better on a hot dry day
 - [b] Ice melts at appx 4 °C but during this process also temperature of melted water remains same
 - [c] Our palm feels cold when we put some acetone on it

SECTION C

- 8 What is the difference between speed and velocity? 5
- [b] A train travels the first 15 km at a uniform speed of 30 km/h; the next 75 km at a uniform speed of 50 km/h; and the last 10 km at a uniform speed of 20 km/h. Calculate the average speed for the entire train journey.

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