SUBJECT: SCIENCE CLASS: IX

MAX. MARKS: 80 DURATION: 3 HRS

General Instructions:

- The question paper comprises of five sections A, B, C, D and E. You are to attempt all the sections.
- All questions are compulsory.
- 3. Internal choice is given in sections B, C, D and E.
- Question numbers 1 and 2 in Section A are one mark questions. They are to be answered in one word or in one sentence.
- Question numbers 3 to 5 in Section B are two marks questions. These are to be answered in about 30 words each.
- Question numbers 6 to 15 in Section C are three marks questions. These are to be answered in about 50 words each.
- Question numbers 16 to 21 in Section D are 5 marks questions. These are to be answered in about 70 words each.
- Question numbers 22 to 27 in Section E are based on practical skills. Each question is a two
 marks question. These are to be answered in brief.

SECTION - A

- Draw a displacement-time graph for a body moving with uniform velocity.
- 2. Identify the kind of energy possessed by a running athlete.

SECTION - B

- 3. (a) What are concentrates in animal feed?
 - (b) Name two internal parasites that cause diseases in animals?

\mathbf{OR}

What is mixed farming? How does it help a farmer?

- 4. Name the abiotic factors responsible for the damage of food grains during storage.
- 5. (a) State the principle on which the working of a hydrometer is based.
 - (b) A sharp knife is more effective than a blunt knife. Why?

SECTION - C

- 6. (a) Which is greater, the attraction of the earth for 1 kg of iron or the attraction of 1 kg iron for the earth? Why?
 - (b) A boy throws a ball vertically upwards and catches it back in 10 s. Calculate
 - (i) the velocity with which it was thrown up and
 - (ii) maximum height attained by the ball. (Take $g = 10 \text{ m/s}^2$)
- A circular track has a circumference of 3140 m with AB as one of its diameter. A scooterist moves from A to B along the circular path with a uniform speed of 10 m/s. Find
 - (a) distance covered by the scooterist,
 - (b) displacement of the scooterist, and
 - (c) time taken by the scooterist in reaching from A to B.
- 8. How are Phanerogamae divided into sub-divisions?

OR

What is the difference between plasma membrane and cell wall? Give the functions of each one.

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J Dewey

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