

SUBJECT: SCIENCE

CLASS : IX

MAX. MARKS : 80

DURATION : 3 HRS

**General Instructions:**

1. The question paper comprises of five sections – A, B, C, D and E. You are to attempt all the sections.
2. All questions are compulsory.
3. Internal choice is given in sections B, C, D and E.
4. Question numbers 1 and 2 in **Section - A** are one mark questions. They are to be answered in one word or in one sentence.
5. Question numbers 3 to 5 in **Section - B** are two marks questions. These are to be answered in about 30 words each.
6. Question numbers 6 to 15 in **Section - C** are three marks questions. These are to be answered in about 50 words each.
7. Question numbers 16 to 21 in **Section - D** are 5 marks questions. These are to be answered in about 70 words each.
8. 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**

1. 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?

**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  $g = 10 \text{ m/s}^2$ )
7. 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 Phanerogamiae divided into sub-divisions?

**OR**

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

# Class 9 Sample Paper Science 2013 Fa2

**Jessica J Manson**



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