O.P. JINDAL SCHOOL, SAVITRI NAGAR

PERIODIC TEST –I (Round-1) (2026-27)

CLASS-IX **MAX.MARKS-20**

SUBJECT-SCIENCE **MAX.TIME-1 Hour**

General Instruction:-

(i)All questions are compulsory .There are 12 questions in this question paper with some internal choice in section B and C.

(ii) **SECTION –A:** Question numbers 1 to 6 is MCQs, carrying 1 mark each.

(iii) **SECTION –B:** Question numbers 7 to 10 are short answer questions carrying 2 marks each.

(iv) **SECTION –C:** Question numbers 11 and 12 are long questions carrying 3 marks each.

SECTION A

Q1. If the initial velocity of an object is zero and it moves with an acceleration of $5m/s^2$, what will be its velocity after 2 seconds?

(a)5m/s (b)10m/s

(c)2.5m/s (d)7.5m/s

Q2. What is the statement"10 percent glucose in water by mass" signifies?

(a) 10 g of glucose dissolved in 100 g of water.

(b) 10 g of glucose dissolved in 90 g of water.

(c) 20 g of glucose dissolved in 200 g of water.

(d) 20 g of glucose dissolved in 90 g of water.

Q3. Which of the following is the basic unit of life?

(a) Tissue (b) Atom

(c) Organ (d) Cell

Q4. The average speed of a bicycle , an athlete and a car are 18km/h , 7 m/s and 2km/ min respectively. Which of these is the fastest ?

(a)Bicycle (b) An athlete

(c)Car (d) All are moving with same average speed.

Q5. What is a pure substance?

(a) A substance with only one type of molecule

(b) A substance with a mixture of different molecules

(c) A substance that can be separated into two or more components

(d) A substance that is impure

Q6. Omnis cellula-e-cellula" (all cells arise from pre-existing cells) was stated by:

(a) Robert Hooke (b) Rudolf Virchow

(c) Schleiden (d) Schwann

SECTION B

Q7. Attempt either **(A)** or **(B):**

(A):

A train travels with a speed of 60km h^{-1} from station A to station B and then comes back with a speed 80kmh^{-1} from station B to station A. Find

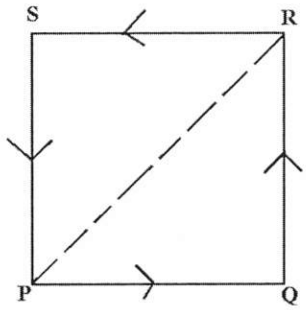
(i) the average speed, and

(ii) the average velocity

OR

(B):

PQRS is a square shaped field having side 20 m each. A particle moves along the edge of the field as shown in the figure. Answer the following questions by observing the following diagram below.



(i)What is the displacement, when the particle moves from point P to S?

(ii) What is the displacement, when the particle moves from point P to R through P→Q→R?

Q8. A solution contains 30g of sugar dissolved in 370 g of water. Calculate the concentration of this solution in terms of mass by mass percentage.

Q9. Write difference between homogenous mixture and heterogeneous mixture.

Q10. What is cell theory?

SECTION C

Q11.Attempt either (A) or (B):

(A):

(i)A quantity is measured to be −30 m/s .Is it speed or velocity? Give reason for your answer.

(ii) What is the displacement of a satellite when it makes a complete round along its circular path?

(iii) Define uniform motion.

(B):

A particle was at rest from 9.00 a.m. to 9.30 a.m. It moved at a uniform speed of 10 km/h . Find the average speed between (i) from 9.00 am. and 10:00 a.m. (ii) 9.15 a.m. and10:00 a.m.

(ii)A particle is moving with uniform velocity. What is its acceleration?

Q12. (i)Why is the cell membrane called selectively permeable membrane?

(ii)What is cytoplasm?

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