

SLIP TEST-2(2)  
CHAPTER-2 : MOTION

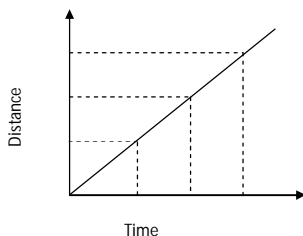
Name:..... Section:..... Roll No:..... Max.Marks:20

**I. Answer the following questions. Each carries four marks. 2 x 4 = 8 M**

- 1) Derive the equation of motion which states the relation between V, U, a and S.
- 2) A train of length 50m is moving with a constant speed of 10m/s. Calculate the time taken by the train to cross an electric pole and a bridge of length 250 m.

**II. Answer the following questions briefly. Each carries two marks. 2 x 2 = 4 M**

- 3) Write a short notes on acceleration.
- 4) Interpret the following graph. ( S – distance , t – time )



**III. Answer the following in one or two sentences. Each carries one marks. 2 x 1 = 2 M**

- 5) Define uniform motion.
- 6) “ A car is travelling with constant velocity around a circular path.” – Is there any mistake in this sentence?

**IV. Choose the correct choice and write down in the given brackets. 6 x 1 = 6 M**

- 7) The C.G.S. units of acceleration [     ]  
 A. m/s                                      B. cm/s                                      C. m/s<sup>2</sup>                                      D. cm/s<sup>2</sup>
- 8) The slope of Velocity – Time graph gives [     ]  
 A. Velocity                                      B. Speed                                      C. Acceleration                                      D. Deceleration
- 9) Scalar has the quantities of ..... [     ]  
 A. Direction                                      B. Quantity  
 C. both Direction and quantity                                      D. either direction or quantity
- 10) The distance travelled by a body in n<sup>th</sup> second is ..... [     ]  
 A.  $V = U + at$                                       B.  $V^2 - U^2 = 2aS$                                       C.  $S = Ut + \frac{1}{2}at^2$                                       D.  $S = U + a(n - \frac{1}{2})$
- 11) 50 m/s = ..... Km/h [     ]  
 A. 180                                      B. 175                                      C. 13.8                                      D. 13.9
- 12) The displacement of an ant if it travels from one corner to opposite corner of a rectangular room..... [     ]  
 A. 6                                      B. 5  
 C. 9                                      D. 12

