Chapter 08-Test-02

Total Marks:24 Time:40 Min

Note: All question of 2 marks each and one mark for presenting the solution. Solve all question

Q.1: When the passenger moving in a bus , the road side trees appear to be moving ----------
(a) Back ward (b)For ward.
Q.2: In uniform motion the object covers ----------
(a) equal distance (b) unequal distance .

Q.3: If we specify , its direction of motion along with its speed , the quantity that specifies with the aspects is called---------- (a) velocity (b) motion

Q.4:A car accelerate uniformly from 18 km h^{-1} to 36 km h^{-1} in 5 sec . calculate the acceleration---------- (a) 1ms^{-2}(b) 1 ms^{-3}

Q.5: A train starting from rest attained a velocity of 72 km h-1 in 5 minutes . Assuming that the acceleration is uniform. Find the distance traveled by the train for attaining this velocity ---------- (a) 2km (b) 5 km

Q.6:A cyclist cycles for t second at a speed of 3 m/s and then for the same time at a speed of 5 m/s along a straight road. What is the average speed of the cyclist?
(A)4 m/s
(B)2 m/s
(C)1 m/s
(D)None
Q.7: A train staring from a railway station and moving with uniform acceleration attains a speed of 40 km/h in 10 minutes. Find the acceleration(kmh^{-2}).
(A)240 **km/h^2**
(B)120 **kmh^{-2}**
(C)600 **kmh^{-2}**
(D)None

Q.8:A bus staring from rest moves with a uniform acceleration of 0.1 ms^{-2} for 2 minutes. Find
(a) The speed acquired
(b) The distance travelled.

Q.9: A trolley , while going down an inclined plane has an acceleration **0.1 cms^{-2}**.what will be its velocity after the start ?

Q.10: A train is running at a speed of 72 km/h. It crosses a bridge of length half kilometer in minute.

Calculate the length of the train.

Q.11: What is the nature of distance – time graphs for the uniform and non- uniform motion of an object ?.

Q.12: A stone is dropped from height 8 m with an uniform acceleration of 1 ms^{-2} . Now calculate the velocity of stone before hitting the ground surface.

Answer:

1. ***A***
2. ***A***
3. ***A***
4. ***A***
5. ***to be calculate***
6. ***A***
7. ***A***
8. **12 m/s, 720m**
9. **6 cm/s**
10. **700 m**
11. **200 km**
12. **4 m/s**

For any further query:
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