Periodic Test (24 July 2017)

Class-IX

Sub: G.Science (Set - B)

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Time:	1 - ha

Marks: 50

time (s)

General Instructions:

- All questions are compulsory.
- Draw diagrams wherever required.

Physics (17)

- Q1. Which physical quantity is calculated by the slope of velocity-time graph?(1)
- Q2. When is the magnitude of average velocity of an object equal to its average speed.
- Q3. Velocity-time graph of a body is a straight line parallel to the time axis as shown in given 20 figure. Calculate the acceleration and the displacement of the body in 8s of its journey.
- Q4. How can the velocity of the body be changed?
- Q5. A ball is gently dropped from a height of 20m. If its velocity increases uniformly at the rate of 10m/s2, with what velocity will it strike the ground? After what time will it strike the ground?
- Q6. Derive the equation for position-velosity relation $(v^2 u^2 = 2aS)$ graphically. (3)
- Q7a) Define average speed. Write the formula.
- b) A car travels from stop A to stop B with a speed of 30km/h and then returns back to A with a speed of 50km/h.
 - Find: (i) Displacement of the car (ii) Distance travelled by the car
 - (iii) Average speed of the car

Periodic Test (24 July 2017)

Class-IX

Sub: Science (Set - A)

Time: 1 has.

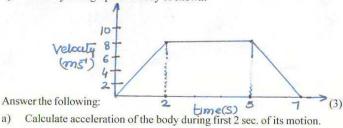
Marks: 50

General Instructions:

- All questions are compulsory.
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Physics (17)

- Q1. If distance time graph of a body is straight line parallel to time axis, What is the nature of its motion? (1)
- Q2. Write true or false: The magnitude of displacement is always greater than the distance travelled by the body.
- Q3. An athelete completes one round of a circular track of diameter 200m, in 40 sec. What will be the distance covered and the displacement at the end of 2 minutes 20 seconds? (2)
- Q4. Why is uniform circular motion called accelerated motion? (2)
- Q5. Velocity time graph of a body of shown:



- Calculate the distance covered in 5 ssec. the journey.
- Q6. Derive the equation for position time relation graphically.

Q7a) Define uniform acceleration. Give example.		Chemistry (16)	
b) A bus travels first 100km with a speed of 50km/hr and next 80l	km with a	Q1. Convert the following temperature to the Kelvin scale	
speed of 40km/hr. Calculate the average speed of thebus.	(2+3)	a) 25°C (b) 373°C	(1)
Chemistry (16)		Q2. Why steam at 100°C is better for heating purposes than water at 100°C.	°C(2
Q1. Convert the following temperature to celsius scale		Q3. Give two reasons to justify that water is a liquid at room temperatu	re.(2
a) 293K (b) 470K	(1)	Q4. a) How is ammonia gas liquefied?	
Q2. Explain, why, naphthalene balls kept in stored clothes in or	ur homes	b) Define diffusion	(3)
disappear over a period of time.	(2)	Q5. a) Why is solid carbondioxide known as dryice?	
Q3. Give two reason to justify that an iron almirah is a solid.	(2)	b) Explain, why, we can easily move our hand in air but to do the	same
Q4. a) Explain why, there is no rise in temperature of a substance	e when it	through a plank of wood, we need a Karate expert	(3)
undergoes a change of state though heat is supplied continuous	sly	Q6. a) Give reason for the following:	
b) Define Brownian motion	(3)	i) Why does a desert cooler cool better on a hot dry day	
Q5. a) Explain how the smell of food being cooked in the kitchen reven from a considerable distance.	eaches us	 When an incense slick is lighted in the corner of a room, its frag spreads quickly in the entire room. 	rance
b) Which gas is called dry ice? Why?	(3)	b) Define following terms:	
Q6. a) Give reason for the following:		i) Freezing	
i) A gas exerts pressure on the walls of the container		ii) Latent heat of fussion	(6)
ii) The water kept in an earthen pot become cool during summer		Biology (17)	
b) Define following terms:		Q1. Which organelle is associated with protein synthesis?	(1)
i) Latent heat of vapourisation ii) Boiling point of a substand Biology (17)	ce (6)	Q2. Which kind of plastid is more common in flower & fruit?	(1)
Q1. Which is the Chief constituent of primary cell wall?	(1)	Q3. Define Diffusion. Give its improtance.	(2)
Q2. Which kind of plastid is more common in leaves of plant?	(1)	Q4. How do substances like Co ₂ & water move in and out of the cell?	(2)
Q3. What is Osmosis? Write the importance of Osmosis in plants?	(2)	Q5. Differentiate between Plama membrance & cell wall.	(3)
Q4. How is flexible nature of plasma-membrane useful for Amoel	ba. Name	Q6. Which organelle is known as power house of the cell? Why?	(3)
this process.	(2)	Q7a) List various components of nucleus	
Q5. Write the differences between Prokaryotic & Eukaryotic cell.	(3)		
Q6. Which organelle is known as suicidal bag? Why?	(3)	b) What are Chromosome? Give their Chemical Compsotion?	
Q7a) Write the structure of nucleus.		c) Where are genes located?	(5)
b) Give two functions of Chromosome.	(5)		

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