G.M.S.S.S. Lakhan Majra

Max Time: 3 hr Class = 9th Max Marks: 80

Subject = Science

Final Term Examination

		Sec	ction – A				
Q.1	Multiple choice questio	ns :		[1 X 20 = 20]			
1)	Chromosomes are made up of :						
	a) DNA	b) Protein	c) DNA & protein	d) RNA			
2)	In solid, liquid and gas the interparticle spaces increase in the order:						
	a) liquid > gas > solid	b) solid > liquid > gas	c) gas > solid > liquid	d) none			
3)	Fats are stored in huma	n body as :					
	a) Cuboidal epithelium	b) Adipose tissue	c) Bones	d) Cartilage			
4)	Nerve cell does not contain :						
	a) Axon	b) Nerve endings	c) Tendons	d) Dendrites			
5)	Retardation is expressed in :						
	a) m	b) ms ⁻¹	c) $-ms^{-2}$	d) ms ⁻²			
6)	Skeleton tissue compris	es:					
	a) Tendons and ligame	ents	b) Bones and cartilage	е			
	c) Blood and lymph		d) All of these				
7)	The boiling point of diethyl ether , acetone and n-butyl alcohol are 35°C , 56°C and 118°C						
	respectively. Which one of the following correctly represents their boiling points in kelvin scale?						
	a) 306 K, 329 K, 391	K	b) 308 K, 329 K, 392	2 K			
	c) 308 K, 329 K, 391	K	d) 329 K, 392 K, 308	3 K			
8)	Which condition out of the following would increase the evaporation of water?						
	a) Increase in temperature of water		b) Decrease in temperature of water				
	c) Less exposed surface area of water		d) Adding common sa	Adding common salt to water			
9)	The velocity time graph of a moving particle is shown in figure. The acceleration is maximum for						
	segment:						
	↑ CD						
		(m/s)					
		В	p sage it				
		A	t (s)				
	a) AB	b) BC	c) CD	d) equal for all parts			
10)	Two bodies of equal masses move with velocities v and 3 v respectively. The ratio of their kinetic						
	energies is :						
	a) 1:3	b) 3:1	c) 9:1	d) 1:9			
11)	A body of mass 2 kg is i	moving over a perfectly s	mooth surface with a un	iform velocity of 5 m/s.			
	Find the linear moment	um of the body.					

c) 2.5 kg m/s

d) none

b) 10 kg m/s

a) zero

12)	A particle executes one and a half revolution along a circle of radius 1 m. The displacement of the particle is								
	•	1 m	c)	2 m	d)	3 m			
13)	The tissues mainly concerne		•		•				
-,	•	Sclerenchyma		Xylem	_	Phloem			
14)	In desert plants, rate of wat	•	•	•	•				
,	•	Stomata		Lignin		Suberin			
15)	How many daughter cells a		-	o .	,				
- ,	, •	2	c)	3	d)	4			
	,		•		·				
	Fill in the Blanks :								
16)	The particles of matter continuously keep on and hence possess energy.								
17)	The arrangement of particles in is highly ordered , less ordered in but there is no order in								
18)	The intermixing of particles	of two different type	es of	matter on their ov	vn is ca	lled			
19)	The interparticle forces of attraction is in solids , in liquids and in gases.								
20)	Diffusion occurs fastest in _								
		Section – B	3			[1 x 10 = 10]			
Q.2	Define Sublimation.								
Q.3	B Define 1 newton.								
Q.4	When a carpet is beaten with a stick, dust come out of it. Explain.								
Q.5	Define Newtons second laws of motion								
Q.6	What is green manure.								
Q.7	What is kinetic energy of an object?								
Q.8	Why do we see water droplets on outer surface of glass containing ice cold water.								
Q.9	Why lysosomes called as suicidal bag of the cell?								
Q.10	Differentiate between tendons and Ligaments.								
Q.11	Why does the temperature	remains constant du	ıring	changing of state.					
		S ection –	C			[2 x 10 = 20]			
Q.12	12 Differentiate between Micronutrients and macronutrients.								
Q.13	3 What is Epithelial Tissue? Write its Functions.								
Q.14	4 Why it is difficult to hold a school bag having a strip made up of thin and strong string?								
Q.15	5 Write the electronic configuration of : (a) Potassium (b) Sodium.								
Q.16	16 A solution contains 40 gm of common salt in 360 gm of water. Calculate the concentration								
	terms of mass by mass percentage.								
Q.17	7 Differentiate between RER and SER.								
-	8 State the importance of Universal law of gravitation.								
	9 Define (a) Positive work (b) Negative work								
	O Write the range of frequency of (i) Infrasonic (ii) Ultrasonic								
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- Q.22 Differentiate between RBC, WBC and platelets.
- Q.23 Calculate the Molar mass of : (a) NH₂CONH₂ (b) H₂SO₄ (c) CaCl₂.
- Q.24 Differentiate between Mixture and Compound.
- Q.25 Find the pressure exerted on skin of balloon with a force of 2.1 N using: (a) Your finger (b) a needle. Assume the area of your finger tip is $1 \times 10^{-4} \,\mathrm{m}^2$, and the area of needle tip is 2.5×10^{-7} m². (c) Find the maximum force necessary to burst the balloon with the needle, given that the balloon bursts with a pressure of 3 x 10 5 N/m²
- Q.26 (i) A 5 kg ball is dropped from a height of 10 m.
 - (a) Find the initial potential energy of the ball.
 - (b) Find the kinetic energy just before it reaches the ground.
 - (c) Calculate the velocity before it reaches the ground
 - (ii) An electric heater is rated 1500 W. How much energy does it use in 10 hours?

Section - E

 $[5 \times 3 = 15]$

- Q.27 (a) A bus starting from rest moves with a uniform acceleration of 0.1 m/s² for 2 minutes. Find the speed acquired and the distance travelled.
 - (b) A force of 5 N gives a mass m_1 , an acceleration of 10 m/s² and a mass m_2 , an acceleration of 20 m/s². What acceleration would it give if both the masses were tied together.
- Q.28 Write the electrons, Protons and Neutrons in the following species:
 - (a) N^{3}
- (b) Mg^{2+} (c) O
- (d) Ar
- (e) H^{-1}
- Q.29 (a) Define three laws of newtons.
 - (b) Differntiate between manure and fertilizers.