SCIENCE M.M:70 CL: IX BCD

SECTION: A

MCQ'S			[1x20=20]	
1) The value of acceleration	on due to gravity is: -			
a) same on equator and pole		b) least on poles	b) least on poles	
c) least on equator		d) increases from	d) increases from pole to equator.	
2) The time period of the	second hand of a watch	is: -		
a) 1 min	b) 1 sec	c) 1 hour	d) 12 hour	
3) The kinetic energy of a	body falling downward	l ;-		
a) remains constant		b) decreases		
c) increases		d) first decreases	then increases	
4) If a wave takes 4 secon	ds to complete one osci	llation then frequenc	ey of wave is: -	
a) 4 Hz	b) 1/4 Hz	c) 2 Hz	d) 1/2 Hz	
5) In the relation F=G m ₁	m ₂ /r ² , The quantity G:	-		
a) depends on the value	of g at the place of obse	ervation		
b) is used only when the	e earth is one of the two	masses		
c) is greatest at the surfa	ace of Earth			
d) is universal constant	of nature			
6) The acceleration produ	ced in a body 0.5 kg ma	ss by applying a for	ce of 2.5 Newton on it is :-	
a) 25 m/sec ²	b) 0.25 m/sec^2	c) 5 m/sec ²	d) $0.5 \text{ m/ } sec^2$	
7) The atmosphere is held	to the earth by: -			
a) gravity	b) wind	c) clouds	d) Earth's magnetic field	
8. How many electrons ar	e present in the outermo	st shell of an elemer	nt whose atomic number is 16	
a) 6	b) 5	c) 4	d) 2	
9. Mass of e- is				
a) 1.672 x 10 ⁻²⁴ g	b) 9.108 x 10 ⁻²⁸ g	c)1.007 amu	d) 1.008 amu	
10. The international stand	dard of atomic mass is			
a) C-12	b) H-1	c) O-16	d) N-14	
11. The formula of the th	e sulphate of an elemen	t X is XSO _{4.} The for	mula of chloride of	
element X will be				
a) XCl	b) XCl ₂	c) XCl ₃	d) XCl ₄	
12. Valency of an elemen	nt A is +2 and the valence	y of another elemen	t B is -3. The formula	
of compound formed	by the union of two ele	ments will be		
a) A ₂ B ₃	b) A ₃ B ₂	c) A ₂ B ₂	d) A_3B_3	
13. When water at 0°C f	reezes to form ice it			
a) Absorbs some heat		b) release some l	b) release some heat	
c) neither absorbs nor release energy		d) Absorbs 3.342	d) Absorbs 3.34X10 ⁵ J/kg of heat	

14. Lysosomes is popular as-		
a) kitchen of the cell	b) suicide bag of cell	c) traffic police of the cell
15. Scientific name of honey bee-		
a) <u>Apis</u> i <u>ndica</u>	b) Musca domestic	c) Bombyx mori
16. Heart muscles are: -		
 a) voluntary and striated 	b) involuntary, striated and	uninucleate
c) voluntary, multinucleate		
17. Which is the most significant w	vay to reduce the global warm	ing-
a) reduce the use of fertilizers	b) reduce carbon emissions	c) both a and b
18. which one is an oil yielding pla	ınt -	
a) lentil	b) sunflower	c) cauliflower
19. Pisum sativum is commonly kr	nown as-	
a) rose	b) garden pea	c) waterlily
20. Phloem in plants performs the	function of-	
a) conduction of food	b) conduction of water	c) Photosynthesis
	SECTION: B (PHYSIC	CS)
SHORT ANSWER TYPE QUI	ESTION:-	
	, equal to or less than up thrus ween mass of an object and its en transverse wave and longit	st? [2] s weight? [2] udinal wave. [4]
LONG ANSWER TYPE QUES	STION:-	
4) a) Write Newton's law of grav	vitation and define Universal	gravitational constant on the basis of it
b) The weight of a body is 98	Newton on earth when $g = 9.8$	8 m/sec ² . What will be its mass and
weight on the Moon gravity	on Moon is 1.6 m/sec ² .	[4+2=6]
	OR	
between wave velocity, wave	elength and frequency.	gth in wave motion? Establish relation 150 Hz and velocity of sound wave is [4+2=6]
	CHEMISTRY	
II. ANSWER THE FOLLOWING	QUESTIONS	
1. i) What is possible maximum n	o of electrons in K and N she	11? 2

ii) What are polyatomic ions? Give example

2

2. i) What do you mean by Valency? How will you relate it with the formula of a substance				
ii) In Sodium 11 proton and 1	2 neutron are present.Write	its symbol with atomic number and		
mass number			2	
3. i) Write down the chemical formulae of the following chemicals:				
a) Copper Sulphate	b) Calcium chloride	c) Aluminium oxide		
ii) Calculate Molecular Mass of following molecules:				
a) H ₂ O	b) Na ₂ SO ₄	c) HNO ₃		
	OR			
iii) Explain the following giving examples				
a) Colloid	b) Saturated solution	c) Suspension		
	BIOLOGY			
II. Short answer type question-a) Describe nitrogen cycle with suitable diagram.b) What are macronutrients? Why are they called macro-nutrient?c) What are differences between Aves and Mammalians?				
III. Long answer types question- List any three activities that you		lution? How can we control air poll	ution? 3+3	
OR Draw well labelled diagram of	animal cell. Describe structu	are and function of Endoplasmic reti	iculum 3+3	
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