

CLASS: VII A

SUB: GENERAL SCIENCE

MARKS: 30

DATE: 27-09-2017

I Four alternatives are given for each statement. Choose the correct answer and Shade in OMR sheet [1 x 18=18]

- 1) The Coal form which contain more percentage of Carbon  
A) Lignite                      B) Anthracite                      C) Peat                      D) Bituminous
- 2) Concentration of Toxic Chemicals increases, as they pass on to the higher tropic levels is called  
A) Magnification B) Saponification C) Biomagnification D) Ecosystem
- 3) The simplest atom that does not contain neutron is  
A) Deuterium B) Tritium C) Hydrogen D) Helium
- 4) The reason for the existence of isotopes is change in  
A) Atomic number B) Electron number C) Neutron number D) proton number
- 5) 1 mole of Carbon atoms is equal to  
A) 6.023 atoms of C B)  $10^{23}$  atoms of C C) 18 Grams of C D)  $6.023 \times 10^{23}$  atoms of C
- 6) The site of Protein Synthesis in the cell is  
A) Ribosomes B) Lysosomes C) Mitochondria D) Golgi Complex
- 7) Three Kingdom Classification was given by  
A) Carolus Linnaeus B) Earnst Haeckel C) Robert Whittaker D) Aristotle
- 8) Father of Microbiology is  
A) Louis Pasteur B) Carolus Linnaeus C) Aristotle D) Rutherford
- 9) Chlorophyll is present in  
A) Chlamydomonas B) Mushroom C) Yeast D) Aspergillus
- 10) One of this is a decomposer  
A) Fungi B) Algae C) Protozoa D) Insect
- 11) The atomic mass of Deuterium isotope of hydrogen is 2. The atomic mass of oxygen is 16. Then the molecular mass of heavy water formed is  
A) 16 B) 18 C) 20 D) 24
- 12) Most primitive organisms, among the following are  
A) Monerans B) Protista C) Fungi D) Algae
- 13) S.I. unit of acceleration is  
A)  $ms^{-2}$  B)  $ms^{-1}$  C) Ms D) Joule
- 14) The type of energy that can be easily converted into other forms is like  
A) Sound B) light C) heat D) electricity
- 15) "To every action there is always an opposite and equal reaction" This is  
A) Newton's Second Law of motion B) Newton's First Law of motion  
C) Newton's Third Law of motion D) ) Newton's Fourth Law of motion
- 16) Unit Power is  
A) Joule B) Newton C) Ampere D) Watt

17) Oxidation Reactions are

- A) Addition of Oxygen B) Removal of Oxygen C) Addition of Hydrogen D) Addition of Electron

18) Chlorine is prepared in the laboratory by the action of,

- A) Zn and HCl B) MnO<sub>2</sub> and HCl C) CaCO<sub>3</sub> and HCl D) Pb(NO<sub>3</sub>)<sub>2</sub> and HCl

19) [2x 6 = 12]

i	Proton	p) negligible mass
ii	'L' Shell	q) positively charged
iii	electrons	r) electrically neutral
iv	neutrons	s) 8 electrons

The correct Sequence is

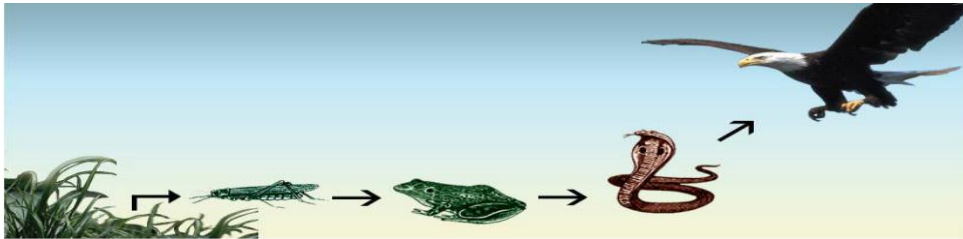
- A) i-p, ii-q, iii-r, iv-s B) i-q, ii-s, iii-r, iv- p C) i-q, ii-s, iii-p, iv-r D) i-s, ii-r, iii-q, iv- p

20) A bag of wheat weighs 200 kg. To what height should it be

Raised so that its potential energy is 9800 joule ( $g = 9.8 \text{ ms}^{-2}$ )

- A) h=3m B) h= 4m C) h=1m D) h=5m

21)



Refer the above food chain diagram & choose the correct answer from the following,

- A) Grass hopper is carnivorous & Frog is Herbivorous B) Grass hopper is Herbivorous & Frog is carnivorous C) Both are Carnivorous D) both are Herbivorous

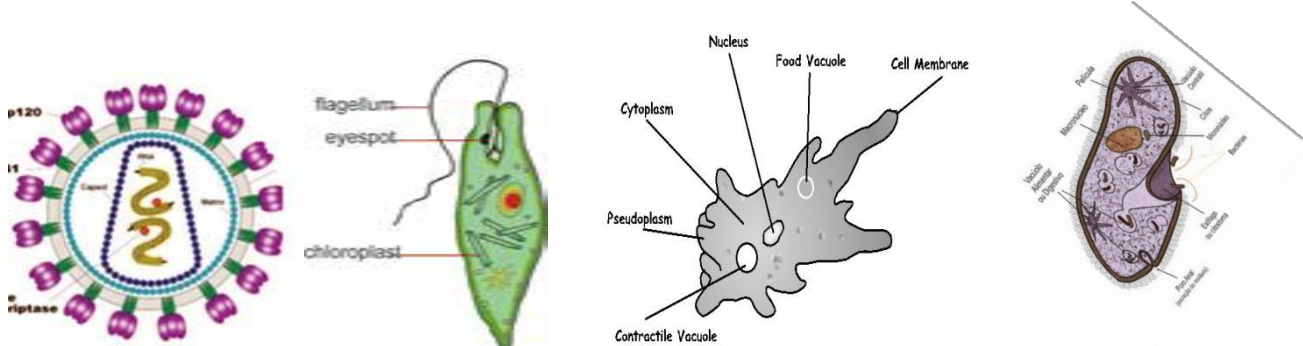
22) An object is moving in a circular path of radius 3.5m. If it completes one full cycle, what will the Displacement and what is distance travelled?

- A) 0m & 22m B) 22m & 0m C) 22m & 22m D) 23m & 0m

23) identify the correct form of balanced chemical equation,

- A)  $2\text{KMnO}_4 \rightarrow \text{K}_2\text{MnO}_4 + 2\text{MnO}_2 + \text{O}_2 \uparrow$  B)  $\text{KMnO}_4 \rightarrow \text{K}_2\text{MnO}_4 + \text{MnO}_2 + \text{O}_2 \uparrow$   
 C)  $2\text{KMnO}_4 \rightarrow \text{K}_2\text{MnO}_4 + 2\text{MnO}_2 + \text{O}_2 \uparrow$  D)  $2\text{KMnO}_4 \rightarrow \text{K}_2\text{MnO}_4 + \text{MnO}_2 + \text{O}_2 \uparrow$

24) Identify the Microbes in the correct order



- A) Euglena, Paramecium, HIV, Amoeba B) HIV, Euglena, Amoeba, Paramecium  
 C) Paramecium, HIV, Amoeba, Euglena D) Amoeba, Paramecium, HIV, Euglena

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## COMPETENCIES FOR 8<sup>TH</sup> STD SCIENCE

S.No.	COMPETENCIES	Question Numbers
1.	Importance of our natural resources , identification & conservation	1
2.	Develop the skill to identify Microbes & contributions of Microbiologists	8,9,24
3.	Identification of the Various Tropic levels & their importance	2,10,21
4.	Identifying the different fundamental particles	3,4,19
5.	Knowing the importance of Avogadro's number & atomic mass & mole	5,11
5.	Compare the structure and functions of various cell organelles	6
6.	Classification of living organisms to their respective kingdoms	7,12
7.	Defining the terms distance, displacement, speed , velocity, acceleration & their units & simple numericals	13
8.	Defining Newton's Laws of Motion & numericals	15,22
9.	Different Energy Forms, Applications & Numericals	14,16,20
10.	Understanding the use of simple chemicals, their uses, Formulas & balancing chemical equations	17,18,23

Signature of the Science teacher

Signature of the H.M.

(Bruno Paul D'Souza)