8th New Science 1st Term Book Back Questions in English

1. MEASUREMENT

Choose the best answer

1. Which one the fo	1. Which one the following system of units is the British System of unit?					
a) CGS	b) MKS	c) FPS	d) SI			
2. Electric current belongs to quantities						
a) base	b) suppleme	entary				
c) derived	d) professio	nal				
3. SI unit of tempe	rature is					
a) celsius	b) Fahrenheit	c) kelvin	d) ampere			
4. Amount of subs	tance is					
a) directly proport	ional to the numbe	r of atoms				
b) inversely propo	rtional to the numb	er of atoms				
c) directly proport	ional to the square	of number of atoms	3			
d) inversely propo	rtional to the squar	e of number of aton	ns			
5. Luminous inten	sity is the intensity	of				
a) Laser light	b) UV light	c) visible light	d) IR light			
7. SI unit stands for						
a) International system of units b) Integrated System of units						
c) International symbol of units d) Integrated symbol of units						
8. Closeness of two or more measured values is called as						
a) accuracy	b) precision	c) error	d) approximation			
9. Quantities other than base quantities are called as						

- a) supplementary quantities
- b) derived quantities
- c) professional quantities
- d) energy quantities
- 10. Which of the following statements about approximation is wrong?
- a) Approximation gives accurate value.
- b) Approximation simplifies the calculation.
- c) Approximation is very useful when little information is available.
- d) Approximation gives the nearest value only.

II. Fill in the blanks.

- 1. The solid angle is measured in **Steradian**.
- 2. Scientists recognized the need of 'Standard Units' for physical quantities.
- 3. The coldness or hotness of a substance is expressed by **Temperature**.
- 4. **Ammeter** is used to measure electric current.
- 5. Amount of substance, contains 6.023 × 10^23 atoms or molecules.
- 6. Luminous Intensity is the amount of visible light, that is emitted in unit area per unit **Solid angle**.
- 7. Quartz clock uses **Electronic** oscillations.
- 8. The uncertainty in measurement is called as **Error**.
- 9. **Accuracy** is the closeness of the measured value to the original value.
- 10. The intersection of two straight lines gives us **Plane angle**.

III. True or False.

- 1. SI units are metric system of units -True.
- 2. Temperature is a measure of total kinetic energy of the particles in a system-**False**.
- 3. In thermometers, freezing point of water is taken as the Upper Fixed Point-False.
- 4. One coulomb of charge flowing per minute is called 'ampere'- False.

- 5. Amount of substance gives the number of particles present in the substance-**True**.
- 6. Intensity of light from a candle is approximately equal to one 'candela'-**True**.
- 7. Angle formed at the top of a cone is an example of 'Plane Angle'-True.
- 8. Quartz clocks are used in GPS Devices-False.
- 9. Candela is used to express electric field intensity-**False**.
- 10. The number 4.582 can be rounded off as 4.58- True.

IV. Match the following:

(Column A		Column B	
1.	Temperature	a	Closeness to the Actual Value	4
2.	Plane Angle	b	Measure of hotness or coldness	1
3.	Solid Angle	С	Closeness to two or more measurements	5
4.	Accuracy	d	Angle formed by the intersection of three or more planes	3
5.	Precision	e	Angle formed by the intersection of two planes	2

2. FORCES AND PRESSURE

- I. Choose the correct answer for each of the following:
- 1. If we apply a force against the direction of motion of a body, then the body will
- a) stop moving

- b) move with an increased speed
- c) move with a decreased speed
- d) move in a different direction
- 2. Pressure exerted by a liquid is increased by
- a) the density of the liquid
- b) the height of the liquid column

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c) Both (a) & (b)		d) None of the above		
3. Unit of pressure	eis			
a) pascal	b) N m ⁻²	c) poise	d) Both (a) & (b)	
4. The value of the	atmospheric press	sure at sea level is		
a) 76 cm of mercu	ry column	b) 760 cm of merci	ury column	
c) 176 cm of mercu	ıry column	d) 7.6 cm of mercu	ry column	
5. Pascal's law is u	ised in			
a) hydraulic lift		b) brake system		
c) pressing heavy bundles		d) All the above		
6. Which of the fol	lowing liquids has	more viscosity?		
a) Grease b) Water		c) Coconut oil	d) Ghee	
7. The unit of viscosity is				
a) N m2	b) poise	c) kg m s-1	d) no unit	
II. Fill in the blanks				
1 The pressure of a liquid column varies with the depth of the column				

- 2. Hydraulic lift works under the principle of pascal law.
- 3. The property of surface tension of a liquid surface enables the water droplets to move upward in plants.
- 4. A simple barometer was first constructed by Torricelli.

III. State whether the following statements are true or false:

- 1. Force acting on a given area is called pressure- **False**.
- 2. A moving body comes to rest due to friction alone- **True**.
- 3. A body will sink if the weight of the body is greater than the buoyant force-**True**.
- 4. One atmosphere is equivalent to 1,00,000 newton force acting on one square metre-False.

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- 5. Rolling friction is slightly greater than the sliding friction-False.
- 6. Friction is the only reason for the loss of energy- **False**.

V. Match the following

Match: I

Column I Column II

a) Static friction - viscosity 4

b) Kinetic friction - least friction 3

c) Rolling friction - objects are in motion 2

d) Friction between

the liquid layers - objects are sliding 5

e) Sliding friction - objects are at rest 1

Match: II

Column I Column II

a) Barometer - reduce friction **4**

b) Increase friction - atmospheric pressure 1

c) Decrease friction - cause of friction 5

d) Lubricants - increasing area of contact 2

e) Irregular surface - decreasing area of contact 3

3. LIGHT

I. Choose the best answer.

1. Mirrors having a curved reflecting surface are called as

a) plane mirrors b) spherical mirrors

c) simple mirrors d) None of the above

2. The spherical mirror with a reflecting surface curved inward is called Learning Leads To Ruling

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a) convex mirror		b) co	ncave mirror			
c) curved mirror		d) None of the above				
3. The centre of a called	sphere of wh	nich th	ich the reflecting surface of a spherical mirror is a part is			
a) pole		b) cei	ntre of curvature			
c) radius of curvat	ture	d) ap	erture			
4. The spherical m	nirror used as	a reai	view mirror in the	vehicl	e is	
a) concave mirror		b) co	nvex mirror			
c) plane mirror		d) No	ne of the above			
5. The imaginary lis called	ine passing tl	nrough	n the centre of curva	iture ar	nd pole of a spherical mirror	
a) centre of curvature		b) pole				
c) principal axis		d) radius curvature				
6. The distance from the pole to the focus is called						
a) Pole length	a) Pole length		b) focal length			
c) principal axis		d) None of the above				
7. Focal length is	equal to half	of the				
a) centre of curvat	ture	b) axis				
c) radius of curvat	ture	d) None of the above				
8. If the focal length of a spherical mirror is						
10 cm, what is the value of its radius of curvature?						
a) 10 cm	b) 5 cm		c) 20 cm	d) 15 d	em	
9. If the image and	d object dista	nce is	same, then the obje	ct is p	aced at	
a) infinity	b) at F		c) between f and P	•	d) at C	

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- 10. The refractive index of water is
- a) 1.0
- b) 1.33
- c) 1.44
- d) 1.52

II. Fill in the blanks.

- 1. The spherical mirror used in a beauty parlour as make-up mirror is Concave mirror.
- 2. Geometric centre of the spherical mirror is **Pole**.
- 3. Nature of the images formed by a convex mirror is **Virtual image**.
- 4. The mirror used by the ophthalmologist to examine the eye is Concave mirror.
- 5. It the angle of incidence is 45°, then the angle of reflection is 45°.
- 6. Two mirrors are parallel to each other, then the number of images formed is **infinite**.

III. Match the following.

A)

- 1. Convex mirror a. Radio telescopes 2
- 2. Parabolic mirror b. wall 4
- 3. Regular reflection c. rear view mirror 1
- 4. Irregular reflection d. Plane mirror 3

B)

- 1. Snell's law a. Kaleidoscopce **4**
- 2. Dispersion of light b. $\sin i/\sin r = \mu 1$
- 3. Refractive index c. Rainbow 2
- 4. Multiple reflection d. c/v = μ 3

4. MATTER

- I. Choose the best answer.
- 1. Matter is composed of
- a) atoms b) molecules
- c) ions
- d) all of the above

2. The liquid metal used in thermometers is				
a) Copper	b) Mercury	c) Silver	d) Gold	
3. The Pictorial sy	mbol for water given by t	ne alchemists was		
a) c)	b) \(\)			
Ans: C				
4. Which one of th	ne element name not deriv	ved from planet?		
a) Plutonium	b) Neptunium	c) Uranium	d) Mercury	
5. Symbol of Merc	cury is			
a) Ag	b) Hg	c) Au	d) Pb	
6) A form of non-	metal which has high duc	tility is		
a) nitrogen	b) oxygen	c) chlorine	d) carbon	
7. Which one of m	etal possess low tensile s	trength?		
a) Silver	b) Copper	c) Zinc	d) Aluminium	
8. The property w	hich allows metals to be h	ammered into thei	r sheets is	
a) ductility	b) malleability	c) conductivity	d) tensile strength	
9. The non-metal which conduct current is				
a) carbon	b) oxygen	c) aluminium	d) sulphur	
10. Pencil lead contains				
a) graphite	b) diamond	c) aluminium	d) sulphur	
II. Fill in the blanks.				
1. The element which possesses character of both metals and non metals are called Metalloids				

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- 2. The symbol of Tungsten W
- 3. Melting point of most metal is **higher** than non-metal.
- 4. Water contains **Hydrogen** and **Oxygen** element.
- 5. **Silicon and germanium** is used in semiconductor industry.
- IV. Match the substance given in column A with their use given in Column B.
- 1. Match the following:

A B

- 1. Iron For making wires 2
- 2. Copper Sewing needle 1
- 3. Tungsten As a fuel for ignition in rocket. 4
- 4. Boron Making the filament of a bulb 3
- 2. Match the following:
- 1. Atom A. building block of matter 1
- 2. Element B. atoms of different kinds **2**
- 3. Compound C. atoms of the same kind 3

III. True or False, if false correct the statement

- 1. Metals are generally good conductors of electricity, but not good conductors of heat-False.
- 2. Gallium metal is in solid state at or just above room temperature- False.
- 3. Compounds can be made up of one atom- False.
- 4. Coal can be drawn into wires- False.
- 5. Zinc is highly ductile in nature- True.

5. CHANGES AROUND US

I. Multiple choice	questions.				
1. Burning of pape	r is a chang	e.			
a) Physical	b) chemical	c) physical & chemical	d) neutral		
2. The burning of	2. The burning of matchstick is an example for chemical reaction based on				
a) Contact	b) electricity	c) light	d) catalyst		
3 metal u	ndergoes rusting.				
a) tin	b) sodium	c) copper	d) iron		
4. The pigment res	sponsible for brown	ning of apples is			
a) Hydrated iron (l	I) oxide	b) melanin			
c) starch		d) ozone			
5. Brine is a conce	ntrated solution of				
a) Sodium sulphate b) sodium chloride					
c) calcium chloride d) sodium bromide					
6) Limestone cont	ains mainly	J.			
a) Calcium chlorid	le	b) Calcium carbonate			
c) Calcium nitrate		d) Calcium sulphate			
7. Which of the fol	lowing factor induc	ces electrtolysis?			
a) Heat	b) light	c) Electricity	d) catalysis		
8. In Haber's proce	ess of producing am	nmonia is used as	a catalyst.		
a) Nitrogen	b) hydrogen	c) Iron	d) nickel		
9. Dissolved gases like Sulphur dioxide, nitrogen oxides in rain water causes					
a) Acid rain	b) base rain	c) Heavy rain	d) neutral rain		
	10 is responsible for Global warming. Learning Leads To Ruling Page 10 of 18				

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a) Carbon di oxide

- b) Methane
- c) Chloro fluoro carbons
- d) all the above

II. Fill in the blanks.

- 1. Reactants → **Products**.
- 2. Photosynthesis is a chemical reaction that takes place in presence of Sunlight.
- 3. Iron objects undergo rusting when exposed to Water and Oxygen.
- 4. **Ammonia** is the basic material to manufacture urea.
- 5. Electrolysis of Brine solution gives **hydrogen** gases.
- 6. Catalyst is a chemical substance which alters the speed of a chemical reaction.
- 7. **Polyphenol oxidase or tyrosinase** is the enzyme responsible for browning of vegetables, fruits.

III. Write TRUE OR FALSE for the following.

- 1. A chemical reaction is a temporary reaction- False
- 2. Change in color may take place during a chemical reaction-True.
- 3. Formation of slaked lime from quicklime is a endothermic reaction True.
- 4. CFC is a pollutant-**True**.
- 5. Browning of some vegetables and fruits is due to tannin formation-False.

IV. Match the following:

A B

- 1. Rusting a) photosynthesis **4**
- 2. Electrolysis b) Haber's process 5
- 3. Thermolysis c) Iron 1
- 4. Food d) Brine 2
- 5. Catalysis e) Decomposition of limestone 3

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Α	В			
1. Rancidity	a) Decomp	osition 2		
2. Ozone	b) biocatal	b) biocatalyst 4		
3. Tarnishing	c) oxygen 1	Į.		
4. Yeast	d) chemica	ıl reaction 3		
5. Calcium Oxide	e) fish			
	6.	MICRO ORGANISM	S	
I. Multiple choice	questions.			
1. Micro organism	s are measured in	·		
a) cm	b) mm	c) micron	d) meter.	
2 shows	both living and no	nliving characteris	stics.	
a) Protozoa	b) virus	c) bacteria	d) Fungi	
3 is a prol	karyotic micro orga	anism.		
a) Virus	b) algae	c) fungi	d) bacteria	
4. Based on shape	, the bacteria are c	lassified into	types.	
a) 2	b) 3	c) 4	d) 5	
5. The plant body	of algae is called a	S		
a) stem	b) thallus	c) leaf	d) root	
II. Fill in the blanks.				
1. Penicillin is prepared from a mould called Penicillium.				
2. Prion is the infectious protein particles.				
3. The infact virus particle found outside the host cell is Virion .				
4. Micro organism can be seen with the help of a microscope .				
5. Bacteria, which have a flagellum at one end is classified as Monotrichous.				

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III. Match the following:

1. Nitrogen fixing bacteria - Vaccine 5

2. Tuberculosis - Prion 3

3. Kuru - Lactobacillus acidophilus **4**

4. Probiotics - Bacteria 2

5. Edward Jenner - Rhizobium 1

IV. True or False.

1. Diseases causing micro organisms are called pathogens- **True**.

2. Female anopheles mosquito is a carrier of dengue virus-True.

3. Chicken pox is a communicable disease- True.

4. Citrus canker is transmitted by insects-False.

5. Yeast is used in the large scale production of alcohol- True.

7. PLANT KINGDOM

I. Fill in the blanks:

- 1. The word 'Taxonomy' is derived from Greek word (Taxis Nomos)
- 2. Binomial Nomenclature was first introduced by **Gaspard Bauhin**
- 3. The book "Genera Plantarum" was written by **Bentham and Hooker**
- 4. Monocotyledon seeds bear only **one** cotyledon.
- 5. Brown algae belongs to **phaeophyceae** class.
- 6. Agar Agar is obtained from **red** algae.
- 7. The reserve food material of fungi are glycogen and oil.
- 8. The first true land plant is **Pteridophytes**.
- 9. Xylem and phloem are absent in **Bryophyte** plants.
- 10. Reticulate venation is present in **Dicotyledon** plants. Learning Leads To Ruling

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II. Choose the correct answers:

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1. Solanum triloba refers to	atum is the b	oinom	ial name of Thootl	huvalai. Here the word 'Solanum'	
a) Species	b) Genus		c) Class	d) Orders	
2 is	s an example	for co	lonial form of algae	е.	
a) Oscillatoria	b) Nostac		c) Volvox	d) Chlorella	
3. Floridian starch	is a reserve	food n	naterial of		
a) Chloroplyceae		b) Ph	aeophyceae		
c) Rhodophyceae		d) Cy	anophyceae		
4. The edible mush	nroom is				
a) Polyporus	b) Agaricus		c) Pennicillium	d) Aspergillus	
5. Soil erosion is p	revented by_		plants.		
a) Algae	b) Fungi		c) Bryophytes	d) Pteridophytes	
6. The first vascula	ar cryptogam	s in la	nd plants are		
a) Bryophytes		b) Pte	eridophytes		
c) Gymnosperm		d) An	giosperm		
7. The well-develo	ped sporophy	ytic pl	ant body is seen in		
a) Bryophytes		b) Pte	eridophytes		
c) Gymnosperms		d) An	giosperms		
8. Binominal Nomenclature was first introduced in the year of					
a) 1970	b) 1975		c) 1978	d) 1623	
9. Penicillin is an antibiotic, which is extracted from					
a) Algae	b) Fungi		c) Bryophytes	d) Pteridophytes	
III. True of False					

- 1. In polypetalae, the petals are free True.
- 2. Binomial name should contains more than two words False.
- 3. Artificial system of classification is based on the vegetative characters of the plant-False.
- 4. Cell wall of fungi is made up of chitin -True.
- 5. Pinus is a closed seeded plant-False.
- 6. All bryophytes are hydrophytes-**False**.
- 7. Dicotyledons have well developed characters than the monocotyledons-True.
- 8. Mosses are the well developed plant in bryophytes-True.
- 9. The dominant phase of the bryophytes is sporophytes.
- 10. The dominant phase of the pteridophytes is diploid(2n)-True.
- 11. Seeds of angiosperm are produced inside the ovary-True.
- 12. In gymnosperms ovules are developed from the flowers-True.

IV Match the following

- 1. Which of the following pairs are in correct?
- a) Laminaria Iodins
- b) Nostoc N2 fixation
- c) Polysiphonia Green algae
- d) Rhodophyceae Fucoxanthin
- i) a, b, c 2) c,d c) a, c, d d) a ,b ,c, d
- 2. Find out the correct pairs:

Phyllanthus amarus – Euphorbiaceae

Solomum trilobatum – Solanaceae

Acalypha indica – Malvaceae

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Aegle marmelos – Rutaceac

- i) a,b
- ii) c,d
- iii) a,b,c
- d) a,b,d
- 3. Which of the following characters are not suitable to angiosperm?
- a) Reticulate / parallel venation, closed seeded plants, sieve tubes are present in phloem.
- b) Seeds are open, ovary is not present, gametes are produced in cones.
- c) Tracheids are the conducting cells, companion cells not are present in phloem.
- d) Trimerous or tetramerous, closed seed, seed with seed coat, bears fruit.
- 1) a,b
- 2) b,c
- 3) e,d
- 4) a,d
- 4. Which of the following sequences are correct
- a) In Bryophytes Gametophytes Sex organ Gamete fusion Zygote Spore mother cell spore Thallus.
- b) In Angiosperm pollination fertilization zygote new plant.
- c) In Gymnosperm male cone, and female cone microspore and megaspore Zygote new sporophytes plant.
- d) In pteridophytes pollination by wind, fertilization in the presence of water zygote prothallus, new plant.
- 1) a, b, c
- 2) a, b
- 3) c, d
- 4) b. d
- 5. Match column I with coloumn II

Column I	Column II
A. Penicillium chrysogenum	1) Blast disease of paddy.
B. Ginko biloba	2) Ornamental plants
C. Araucaria bidwilli	3) Athlet foot.
D. Tinea pedis	4) Penicillin
E. Pyricularia oryzae	5) Living fossil

a) A-4, B-5, C-2, D-3, E-1

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- b) A-4, B-5, C-1, D-2, E-1
- c) A-3, B-2, C-4, D-5, E-1
- d) A-4, B-2, C-1, D-5, E-3

8. ORGANIZATION OF LIFE				
I. Choose the best	answer.			
1the eye.	is tough	and thick white sh	eath that protect the inner parts of	
a) Sclera	b) conjunctiva	c) Cornea	d) iris	
2. Maintenance of	constant internal e	environment of the	body is known as	
a) Homeostasis	b) Ho	meophytes		
c) Homeokinesis	d) Ho	meophilics		
3. In the absence of	of oxygen, glucose i	s broken down in t	0	
a) Lactic acid	b) Citric acid	c) Acetic acid	d) Nitric acid	
4cells.	_ cells are special	ized cells that car	n be transformed into any kind of	
a) Nerve	b) Stem	c) Heart	d) Bone	
5. The process of a	air passing in and o	ut the lungs is call	ed	
a) Inhalation	b) Exhalation	c) Breathing	d) None of these	
6. Osmosis is the movement of water molecules from a				
a) Higher concentration to a region of lower concentration.				
b) Lower concentration to a region of higher concentration.				
c) Both of these				
d) None of these				
7. The erythrocyte is placed in solution which has lesser concentration of solutes and greater concentration of water than in the cytoplasm. Learning Leads To Ruling Page 17 of 18				

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- a) Hypotonic
- b) Hypertonic
- c) Neutral
- d) Acidic

II. Fill in the blanks.

- 1. **Cell** is the structural and functional unit of living organisms.
- 2. The largest cell is, egg of an **ostrich**.
- 3. **Yeast** is a good example for anaerobic respiration.
- 4. Optic nerve is located at the end of the eyes behind the retina.
- 5. The size of the cells are measured in units of **micron**.
- III. Write true or False. If false, give the correct answer.
- 1) In hypotonic condition, concentration of the external and the internal solution of the organism are same- False.
- 2) Diffusion is the movement of particles from an area of lower concentration to higher concentration- **False**.
- 3) Human beings are warm blooded in nature- **True**.
- 4) The larynx has fold of tissue which vibrate with the passage of air to produce-**True**.
- 5) Aqueous humour plays an important role in maintaining the shape of the eye-False.

IV. Match the following.

- I. Match the following examples for catabolism.
- 1. Carbohydrates CO2, water and heat 2
- 2. Glucose amino acid **3**
- 3. Protein glucose 1
- II. Match the following examples for anabolism:
- 1. Glucose cholesterol and other steroid **3**
- 2. Amino acids glycogen and other sugars 1
- 3. Fatty acids enzymes, hormone, protein 2