11th CLASS - 12022

BIOLOGY GROUP: FIRST

OBJECTIVE

TIME: 20 MINUTES

MARKS: 17

NOTE: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

QUESTION NO. 1	
1	The Devonian period started about years ago
	(A) 300 Million (B) 350 Million (C) 400 Million (D) 440 Million
2	All the amino acids contain an amino group and a carboxylic group attached to the same
	(A) Oxygen atom (B) Nitrogen atom (C) Hydrogen atom (D) Carbon atom
3	The rate of enzyme reaction becomes double for each rise in temperature
	(A) 10 °C (B) 15 °C (C) 20 °C (D) 25 °C
4	The nucleolus synthesize and store
5.9	(A) tRNA (B) rRNA (C) mRNA (D) DNA
5	Phylum includes related
	(A) Families (B) Orders (C) Classes (D) Genera
6	The example of micro aerophilic bacterium
	(A) Pseudomonas (B) Spirochete (C) E.Coli (D) Compylobacter
7	The tests of Foraminiferans have beautiful
	(A) Geometric pattern (B) Algebra pattern (C) Pattern (D) Parabolic pattern
8	The mushrooms whose gills glow in the dark
	(A) Amanita (B) Omphalotus (C) Agaricus (D) Amphalotus
9	The placentation of potato family is
	(A) Basal (B) Free centeral (C) Axile (D) Marginal
10	A leathery shelled egg with massive yolk is
	(A) An-amniotic egg (B) Amniotic egg (C) Shelled egg (D) Yolked egg
11	Which one is not the member of class Reptilia?
	(A) Lizard (B) Snake (C) Salamander (D) Tautra
12	Which of the following does not occur during Calvin Cycle?
10	(A) Carbon fixation (B) Reduction (C) Regeneration of Rubisco (D) Release of O ₂
13	How much energy is released due to breaking of the terminal phosphate of ATP? (A) 7.3 K Cal (B) 73 K Cal (C) 730 K Cal (D) 0.73 K Cal
14	(A) 7.3 K Cal (B) 73 K Cal (C) 730 K Cal (D) 0.73 K Cal All insectivorous plants are true
14	(A) Heterotrophs (B) Autotrophs (C) Parasitic (D) Saprophyte
15	The floor of chest cavity is
13	(A) Pleura (B) Ribs (C) Diaphragm (D) Floor
16	What happens when the guard cells are turgid?
10	(A) Stoma open (B) Stoma closed (C) No effect on stoma (D) Sugar level drop
17	From where the red blood cells are formed in a person at the age of 35
	(A) Liver (B) Spleen (C) Bone marrow (D) Stem cells in bone marrow
i,	

11th CLASS - 12022

SUBJECTIVE SECTION-I

BIOLOGY

TIME: 2.40 HOURS

MARKS: 68

GROUP: FIRST ロイド・マトァア QUESTION NO. 2 Write short answers of any Eight (8) parts of the following 16 Why haemoglobin is considered a protein having quaternary structure? (ii) Why optimum pH is necessary for proper functioning of enzymes? (iii) Why some enzymes are produced in their inactive form? (iv) Why changes in enzyme structure are necessary for catalysis? What is para sexuality? (v) Why rust and smut are called so? (vi) What are deuterostomes? (vii) What are gemmules? (viii) What is infestation? (ix) Name the bones present in human ear (x) (xi) What is action spectrum? What is oxidative phosphorylation? (xii) QUESTION NO. 3 Write short answers of any Eight (8) parts of the following 16 Define the term hypothesis (i) (ii) What is meant by integrated disease management? Why plasma membrane is called differentially permeable membrane? (iii) Why is mitochondria considered as a power house of the cell? (iv) What are basis of diversity in protista? (v) Why Euglena is difficult to classify? (vi) Why body of Algae is called thallus? (vii) Write down the symptoms of malaria (viii) Define ovule (ix) Write three characteristics of Bryophytes (\mathbf{x}) What do you mean by plasmodesmata? (xi) Differentiate between thrombus and embolus (xii) **OUESTION NO. 4** Write short answers of any Six (6) parts of the following 12 Write two rules of binomial nomenclature (i) Differentiate between capsule and slime (ii) Write the names and functions of any two pancreatic enzymes (iii) Differentiate between absorption and assimilation of food (iv) What is heart burn and its causes? (v) What are parabronchi and their role? (vi) Why the severe contraction of bronchioles occur in asthma? (vii) Write two adaptations of gills as a site for exchange (viii) How O₂ in the air reaches capillaries surrounding alveoli in the lungs? (ix) **SECTION-II** $8 \times 3 = 24$ Note: Attempt any Three questions from this section Q.5 (A) How genitically identical organisms can be produced by asexual method? Explain (B) Describe how influx of K⁺ ions is helpful for opening and closing of stomata? Q.6 (A) Explain primary and secondary structure of DNA

(B) Explain different economic losses due to fungi

Q.7 (A) Why antibiotics are considered beneficial as well as harmful for human?

(B) How megaphylls evolveed? Discuss their evolution in detail with the help of diagram

O.8 (A) Draw infectious life cycle of HIV. Give its labeling

(B) Discuss water and photosynthesis relation with the help of Niel's Hypothesis

0.9 (A) Explain structure and functions of mitochondria

(B) Give digestion of food in cockroach

11th CLASS - 12022

BIOLOGY

GROUP: SECOND

OBJECTIVE

TIME: 20 MINUTES **MARKS: 17**

NOTE: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

MITTE	STION NO. 1
1	Percentage of O ₂ in biomass of man
	(A) 18 % (B) 10% (C) 65 % (D) 50 %
2	80 % of the total RNA in the cell is
	(A) m RNA (B) r RNA (C) t RNA (D) mi RNA
3	For enzymes of human body, optimum temperature is
	(A) 30 °C (B) 25 °C (C) 45 °C (D) 37 °C
4	Major component of primary wall is
	(A) Cellulose (B) Lignin (C) Pectin (D) Silica
5	Number of capsomeres in the capsid of adeno virus is
	(A) 152 (B) 252 (C) 162 (D) 262
6	E. Coli is an example of
	(A) Bacilli (B) Cocci (C) Spirochete (D) Spiral
7	Cause of African sleeping sickness is
	(A) Trichonympha (B) Trypanosoma (C) Amoeba (D) Paramecium
8	Yeasts belong to group
	(A) Zygomycota (B) Basidiomycota (C) Ascomycota (D) Deuteromycota
9	Which of the following are considered as amphibians of the plants?
	(A) Ferns (B) Gymnosperms (C) Angiosperms (D) Bryophytes
10	Blood of Anodonta bears
Ę	(A) Myoglobin (B) Haemoglobin (C) Bilirubin (D) Haemocyanin
11	Kangroo has abdominal pouch the marsupium where they rear their young ones, belong to subclass
	(A) Prototheria (B) Metatheria (C) Eutheria (D) Myriapoda
12	In anaerobic respiration, pyruvic acid is not oxidized and turns into
	(A) Ethane (B) Methane (C) Methyle alcohol (D) Ethyle alcohol
13	Which of the following is not an accessory pigment?
	(A) Chlorophyll a (B) Chlorophyll b (C) Carotene (D) Xanthophyll
14	Utilization of the products of digestion for production of energy or synthesis of cellular material
	is known as
	(A) Ingestion (B) Digestion (C) Assimilation (D) Absorption
15	Respiratory pigment present in muscles is (A) Haemoglobin (B) Myoglobin (C) Myofibril (D) Bilirubin
	(A) Hadinoglobin (B) My objection
16	Which of the following is mismatched about RBC? (A) Haemoglobin (B) Bone marrow (C) Transport of O ₂ (D) Fibrinogen
	(A) Hacklogicom (B) Bone mario
17	Which of the following is irrelevant for heart of amphibian? (A) Right atrium (B) Right ventricle (C) Truncus arteriosis (D) Sinus venosus
	(A) Right atrium (B) Right ventricle (C) Truncus arteriosis (D) Sinus venosus
ļ	

QUESTION NO. 4 What are prions? (i) Differentiate between micro aerophelic and facultative bacteria (ii) How leguminous plants fix nitrogen? (iii) Why tubular digestive system is better than sac like digestive system? (iv) Write down composition of gastric juice and how its secretion is regulated? (v) Why respiratory distress syndrome is common in infant with gestation period (vi) less than 7 months? Differentiate between pleura and diaphragm (vii) What changes occur in chest cavity of man during inspiration? (viii) Why smoking in young adults is the most potential threat of lungs cancer?

SECTION-II

Note: Attempt any Three questions from this section

*BIOLOGY

(ii)

(iii)

(iv)

(v)

(vi)

(vii)

(viii)

(ix)

(x)

(xi)

(xii)

(i)

(ii)

(iii)

(iv)

(v)

(vi)

(vii)

(viii)

(ix)

(x)

(xi)

(xii)

Define marsupium

of that disease

GROUP: SECOND

 $8 \times 3 = 24$

- Q.5 (A) Why organelles and cell level of organization is important for life along with molecular level?
 - (B) How cardiac cycle works in Man? Give its various stages and its regulation
- Q.6 (A) Describe the importance of water for life
 - (B) What are the various economic losses due to fungi?
- Q.7 (A) Write down the characteristics and economic importance of cyanobacteria
 - (B) Discuss different evolutionary steps in evolution of megaphyll
- Q.8 (A) Write a note on the history of two to five kingdom system
 - (B) Explain the phenomenon of non-cyclic phosphorylation
- Q.9 (A) Compare prokaryotic cell with that of eukaryotic cell
 - (B) Discuss digestion in stomach of man