

SWL-11-23

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(To be filled in by the candidate)

Biology

H.S.S.C (11th) 1st Annual 2023

Time : 20 Minutes

Paper : I

Objective – (iv)

Marks : 17

Paper Code	6	4	6	7
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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 in your answer book. Use marker or pen to fill the circles. Cutting or filling up two or more circles will result no mark.

SECTION-A

Q.1	Questions	A	B	C	D
1.	A contagious disease is:	Cancer	Asthma	Tuberculosis	Emphysema
2.	The example of an insectivorous plant is:	Dodder	Dionaea	Puccinea	Neotia
3.	In yeast Pyruvic acid is converted into:	Ethyl alcohol	Methyl alcohol	Acetic acid	Lactic acid
4.	The absorption spectrum of light for chlorophyll ranges:	430-660 nm	430-670 nm	430-680 nm	430-690 nm
5.	The worm that damages the wood of ships is called:	Hook worm	Sepia	Teredo	Mytilus
6.	The respiratory pigment of mollusc is called:	Haemocyanin	Haemoglobin	Haemolymph	Colourless pigment
7.	The symptom of candidosis is:	Convulsion	Psychotic thrush	Oral thrush	Renal thrush
8.	The male gametophyte has two wings in:	Cycas	Taxus	Picea	Pinus
9.	Which of the given pigment is absent in algae?	Phycocyanin	Carotenoids	Xanthophylls	Phycocerythrin
10.	The hollow, non-helical, filamentous appendages in bacteria:	Cilia	Pilli	Flagella	Cyst
11.	Mumps and measles are caused by:	RNA naked virus	DNA naked virus	RNA enveloped virus	DNA enveloped virus
12.	The liver and muscle cells appear filled with glycogen within membrane bounded organelles in disease:	Glycogenosis type -I	Glycogenosis type -II	Glycogenosis type -III	Glycogenosis type -IV
13.	The charge bearing site of an enzyme is called:	Catalytic site	Binding site	Blocking site	Active site
14.	The number of carbon atom in waxes are:	C ₅ -C ₁₅	C ₁₅ -C ₂₅	C ₂₅ -C ₃₅	C ₃₅ -C ₄₅
15.	The oldest period of Mesozoic era is:	Jurassic	Cretaceous	Triassic	Silurian
16.	The hydrostatic pressure in xylem and root, pressure of roots is responsible for:	Bleeding	Guttation	Imbibition	Transpiration
17.	The renal vein brings deoxygenated blood from:	Brain	Liver	Lungs	Kidneys

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CANCELLED

Note:- Section B is compulsory. Attempt any 3 questions from Section C.

SECTION-B

2. Write short answers to any Eight parts. (8 x 2 = 16)

- i. Differentiate between anabolic and catabolic reaction.
- ii. Only small quantities of vitamins are needed. Why?
- iii. Enlist different regions of active site and write down their functions.
- iv. Define inhibitors and give their examples.
- v. Differentiate between karyogamy and plasmogamy.
- vi. What is ergotism?
- vii. Write down two affinities of echinoderms with hemichordates.
- viii. What is marsupium?
- ix. Give two parasitic adaptations of Platyhelminthes.
- x. What is agricultural importance of earth worm?
- xi. Why non cyclic phosphorylation changes into cyclic phosphorylation under certain conditions.
- xii. Define oxidative phosphorylation.

3. Write short answers to any Eight parts. (8 x 2 = 16)

- i. How can we determine the age of rocks?
- ii. Differentiate between organ and organelle.
- iii. What do you know about middle lamella?
- iv. Differentiate between cristae and cisternae?
- v. Why is it difficult to classify the protists?
- vi. Discuss the importance of chlorella.
- vii. What do you know about ramenta? Also write down their function.
- viii. Differentiate between homosporous and heterosporous.
- ix. What do you know about blue babies?
- x. Differentiate between cavum venosum and cavum pulmonale.
- xi. What are red tides?
- xii. How the oomycetes are different from fungi?

4. Write short answers to any Six parts. (6 x 2 = 12)

- i. What is Herpes simplex?
- ii. Differentiate between heterotrophic and saprophyte bacteria.
- iii. What is symbiotic nutrition?
- iv. Define microphagous feeders. Give example.
- v. What is the role of Gastrin?
- vi. Differentiate between pulmonary and cutaneous respiration.
- vii. What are parabronchi?
- viii. What is rubisco? Write its function.
- ix. Differentiate between bronchi and bronchioles.

SECTION-C

Note:- Attempt any Three questions. Each question carries eight marks (4+4=8) (8 x 3 = 24)

5. (a) What is cloning? Give its applications.
(b) Give comparison between closed and open circulatory system.
6. (a) Discuss the taxonomic position of Fungi.
(b) Write the importance of carbon. Why carbon is called skeleton of life?
7. (a) Explain chemical composition of bacterial wall in detail.
(b) Write a comprehensive note on life cycle of Adiantum.
8. (a) What do you know about the structure of viruses?
(b) Sketch the Calvin Cycle.
9. (a) Write down composition and functions of Ribosomes.
(b) Describe digestion of food in human stomach.

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