

HSSC-I Examination

Biology Guess Question Paper

Chapter 1,2,3 and 4.

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SECTION – A

Time allowed: 25 minutes

Marks: 17

Note: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 25 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

1. Which of the following organelles is visible during interphase.

- a) Nucleolus
- b) Nucleus
- c) Ribosomes
- d) ER

2. Which of the following is referred as autophagosomes

- a) Primary lysosomes
- b) Secondary lysosomes
- c) Food vacuole
- d) Contractile vacuole

3. Centriole is made up of ____ microtubules.

- a) 9
- b) 27
- c) 3
- d) None

4. Which of the following does steroid synthesis

- a) SER
- b) RER
- c) Both
- d) None

5. Resolution of naked eye

- a) 10micro meter
- b) 1 micro meter
- c) 250nm
- d) 0.1mm

6. Which of the following is responsible for cyclosis:

- a) Microtubules
- b) Microfilaments
- c) Intermediate filament
- d) None

7. Which of the following is responsible for maintaining the integrity of lipid bilayer membrane.
- High specific heat capacity
 - High heat of vaporization
 - Hydrophobic exclusion
 - None
8. Which of the following are referred to as laboratory manufactured sugars.
- L sugars
 - D sugars
 - Both
 - None
9. Which of following produces no colour with iodine.
- Chitin
 - Starch
 - Cellulose
 - Glycogen
10. The enantiomer of D-glucose is:
- D- galactose
 - L-galactose
 - Both
 - None
11. Milk contains:
- Glycolipids
 - Glycoproteins
 - Lipoproteins
 - Nucleoproteins
12. Antibiotics known as sulphonamides combat:
- Viral infection
 - Bacterial infections
 - Fungal infections
 - None
13. Which of the following digests dipeptides to amino acids
- Pepsin
 - Trypsin
 - Carboxypeptidase
 - Erypsin
14. Which of the following has a coenzyme activity
- NAD⁺
 - Ca⁺⁺
 - Both a and b
 - None of the above
15. The reduced cytochromes are ____ in colour
- Red
 - Blue
 - Green
 - Pink
16. CO₂ levels inside the leaf drops to around _____
- 40ppm
 - 50ppm
 - 60ppm
 - 70ppm

17. Which of the followings steps in krebs cycle generates FADH₂

- a) Fumarate to malate
- b) Succinate to fumarate
- c) succinylCoA to succinate
- d) citrate to cis-aconitate

For Examiner's use only:

Total Marks:

17

**Marks
Obtained:**

Time allowed: 2.40 hours

Total Marks: 60

Note: Attempt all the parts from Section 'B' and attempt all questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks 42)

Q2: Attempt All of the following questions.

- i) What is effect of temperature on RuBisCO
OR
Describe polymerization of nucleotides
- ii) Differentiate between oxidative phosphorylation and substrate level phosphorylation
OR
Differentiate between primary and secondary constriction
- iii) What is the importance of G3P?
OR
Differentiate between SER and RER
- iv) What is the mechanism of enzyme action?
OR
Describe chromatography
- v) What is the importance of competitive enzyme inhibitor
OR
Differentiate between condensation and hydrolysis
- vi) Differentiate between apoenzyme and holoenzyme
OR
Describe phospholipids
- vii) What is importance of H-bonding
OR
Describe prostaglandins
- viii) Describe the four types of structure of proteins
OR
Describe concept of gene
- ix) Why phospholipids form a thin layer on the surface of an aqueous solution?
OR
Describe tRNA.
- x) Describe the significance of amino acid sequence
OR
Describe the role of water in photosynthesis
- xi) Describe centrifugation
OR
Describe alcoholic fermentation
- xii) Why lysosomes are called suicidal bags?
OR

Describe the types of cofactors

- xiii) How is chloroplast similar to bacterium?

OR

Describe the roles of conjugated molecules

- xiv) Name three organelles discovered by electron microscope.

OR

Describe cell fractionation

SECTION C (Marks 26)

- Q3. Explain the structure, lysosomes, functions of lysosomes.

OR

Describe Calvin cycle.

- Q4. Describe the structure of cilia and flagella

OR

Describe substrate level phosphorylation

- Q5. How the properties of water make it a cradle of life

OR

Describe mitochondria

- Q6. Explain feedback mechanism with respect to enzymes

OR

Differentiate between prokaryotes and eukaryotes

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