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Answer Sheet No. 39

Sig. of Candidate. _____

Sig. of Invigilator. _____

BIOLOGY SSC-I
SECTION – A (Marks 12)

Time allowed: 20 Minutes

Version No.

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NOTE: Section-A is compulsory. All parts of this section are to be answered on the separately provided OMR Answer Sheet which should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Choose the correct option i.e. A / B / C / D by filling the relevant bubble for each question on the OMR Answer Sheet according to the syllabus and instructions given. Each part carries one mark.

- 1) Which of the following organisms is **different** from others?
A. *Amoeba* B. *Paramecium* C. *Volvox* D. *Euglena*
 - 2) The tentative explanation of observations is called:
A. Hypothesis B. Deduction C. Theory D. Law
 - 3) The eukaryotic, multicellular organisms with ingestive mode of nutrition are placed in:
A. Fungi B. Plantae C. Animalia D. Protista
 - 4) A group of related species comprises a/an:
A. Order B. Genus C. Family D. Class
 - 5) The single membrane bounded organelle containing digestive enzymes is:
A. Ribosome B. Centrosome C. Lysosome D. Mitochondrion
 - 6) Identify the phase of Mitosis shown in the diagram:
A. Prophase B. Metaphase
C. Anaphase D. Telophase
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- 7) All of the following are related to G1 phase **EXCEPT**:
A. Cell increases protein supply B. Cell grows in size
C. Number of organelle increases D. Duplication of chromosomes
 - 8) The part of enzyme involved in catalysis is:
A. Active Site B. Cofactor C. Coenzyme D. Prosthetic Group
 - 9) Which of the following is **NOT** used in Calvin cycle?
A. NADPH B. ATP C. CO₂ D. O₂
 - 10) The valve which prevents backward flow of blood from Aorta to Left Ventricle is:
A. Pulmonary B. Bicuspid C. Tricuspid D. Aortic
 - 11) The Binomial Nomenclature was introduced by:
A. Chatton B. Linnaeus C. Whittaker D. Margulis
 - 12) The **most** abundant Bioelement in protoplasm of a living cell is
A. Carbon B. Oxygen C. Hydrogen D. Nitrogen

For Examiner's use only:

Total Marks:

12

Marks Obtained:

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BIOLOGY SSC-I

40

Time allowed: 2:40 Hours

Total Marks Sections B, C and D: 53

NOTE: Answer any six parts from Section 'B', any five parts from Section 'C' and any two questions from Section 'D' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION – B (Marks 18)

Chapter 1 – 5

Q. 2 Attempt any SIX parts. Be brief and to the point. (6 x 3 = 18)

- (i) Define: a. Embryology b. Anatomy c. Environmental biology
- (ii) Define Tissue. Briefly explain with an example.
- (iii) Briefly explain Deduction and Theory.
- (iv) Write down any three effects of Deforestation in an Ecosystem.
- (v) Write about Types of Endoplasmic Reticulum.
- (vi) Differentiate between Prokaryotic and Eukaryotic cells. (Any 03 differences)
- (vii) What happens during Anaphase of Mitosis?
- (viii) Write one function of each of the following:
- Cytoskeleton
 - Chromoplast
 - Cardiac Muscles

SECTION – C (Marks 15)

Chapter 6 – 9

Q. 3 Attempt any FIVE parts. Be brief and to the point. (5 x 3 = 15)

- (i) Write any three functions of Liver.
- (ii) Write about the structure and function of a Capillary.
- (iii) Name the components of Gastric Juice. Also write their functions.
- (iv) Write any three roles of Calcium in body.
- (v) Write down summary of Light Reactions.
- (vi) Who proposed Lock and Key model for Enzyme Action? Explain this model briefly.
- (vii) How do the enzymes lower the Activation Energy of a Biochemical reaction?

SECTION – D (Marks 20)

Note: Attempt any TWO questions. All questions carry equal marks. (2 x 10 = 20)

- Q. 4** Explain Blood Cells in detail. (10)
- Q. 5** a. Name the part of Small Intestine involved in absorption of digested food. Write about the Structure and Function of this part in detail. (05)
- b. Explain Prophase I of Meiosis. Also draw its diagram. (05)
- Q. 6** a. Describe Mechanism of Aerobic Respiration. With labelled figure (Equations). (06)
- b. Define and explain Active Transport with an example. (04)