Biology - 9th (New Syllabus) Section-A Marks: 12 Time: 20 Minutes 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 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Model Paper SSC-I

Insert the correct option i.e. A/B/C/D in Q1. the empty box provided opposite each part. Each part carries one mark. In most plants the food is transported i. in the form of:

A. Glucose

B. Sucrose,

- kidun D. Proteins C. Starch The process of breaking down large ii. droplets of fat into small droplets of fat is called: B. Absorption A. Emulsification D. Digestion C. Peristalsis In which component of the leaf cells, chlorophyll is present?
- III. B. Thylakoids A. Stroma D. Cytoplasm C. Plasma membrane
- Which of these graphs correctly shows iv. the effect of temperature on the rate of an enzyme-controlled reaction? Rate of enzyme cetalyzed reaction

ŠC

50

20

10

- Temperature (°C) Rate of enzyme catalyzed reaction 10 Ź0 40 Temperature (°C) Rate of enzyme catalyzed reaction 20 10 60 30 50 Temperature (°C) Rate of enzyme catalyzed reaction 10 60 40 50 Temperature (°C) Between two mitotic divisions, the ٧. DNA of the cells is duplicated. When does get duplicate during meiosis I and meiosis II?
- I and meiosis II B. The DNA is not duplicated during meiosis I and meiosis II C. The DNA is duplicated during meiosis I D. The DNA is duplicated during meiosis II Ribosome's are constructed in the. vi. A. Endoplasmic reticulum dunya.com B. Nucleoid C. Nucleolus D. Nuclear pore

vii.

viii.

A. The DNA is duplicated between meiosis

Which sense does the Indus Dolphin

A scientific theory has which of the

D. It does not need to be altered in the light

B. Link step between glycolysis and Krebs

B. Homologous chromosomes cross over

C. Chromosome pairs are broken during

Note: Sections 'B' and 'C are to be answered on the

separately provided answer book. Answer eleven the

A. It agrees with available evidence

C. It has been absolutely proven

B. Hearing

D. Touch

aerobic

Total Marks = 53

 $(11 \times 3 = 33)$

Which of these major bioelements is in ix. the highest percentage in protoplasm? B. Hydrogen A. Carbon D. Nitrogen C. Oxygen in Oxygen takes part X.

use to find its prey?

following properties?

B. It cannot be rejected

of new evidence

respiration in;

A. Glycolysis

anaphase

Time allowed: 2:40 Hours

cycle

A. Vision

C. Smell

- C. Krebs cycle D. Electron transport chain xi. Which of the following is unique to mitosis and not a part of meiosis !? A. Homologous chromosomes pair forming bivalents
- D. Chromatids separate during anaphase Smooth endoplasmic reticulum is the xii. area in a cell where are synthesized: B. Proteins A. Polysaccharides D. DNA C. Lipids BIOLOGY SSC - I
- questions from section 'B' and attempt any two questions from section 'C' Use supplementary answer sheet i.e., sheet B if required. Write your answers neatly and legibly. Section-B (Marks 33) Attempt any ELEVEN parts.
- answer to each part should not exceed 3 to 4 lines. i. What do you mean by horticulture and how is it related to agriculture? ii.
- VII. human body? viii. the body of organisms? ix.
- What are the contributions of Whittaker, Margulis and Shwartz in taxonomy? A never cell does not divide after its iii. formation. In which phase of cell cycle it is? Define the cohesion-tension theory? iv. How are taxonomy and systematic related? ٧. Why All biochemical catalysts are vi.
 - proteins? What is the Optimum temperature for In what ways the respiratory energy is used in
- Which sphincters play role in the movement of food in and out of stomach? Χ. hormone are it and what function it performs?
- Stomach is an organ of the digestive system, but it also secretes a Hormone. What What is the role of potassium ions in the Xi. opening of stomata? What are the two main types of white blood XII. cell? How do they differ?
- You see pus at the site of infection on your XIII. skin. How is it formed? What role does the pericardial fluid play? xiv. What are the health risks if we take more XV. saturated fatty acids in our diet? Section - C (Marks 20)
 - membrane? prophase?
- Note: Attempt any TWO questions. $(2 \times 10 = 20)$ Explain the phenomena involved in Q3. the passage of matter across cell How would you state the events of b. How would you define enzymes? Q4. Describe their characteristics. What is the role of chlorophyll and light in b. photosynthesis?

functions of the main regions of the

How do different factors affect the rate of

Describe

alimentary canal?

transpiration?

Q5.

b.

the structures and