Federal Board SSC-I (2016) **BIOLOGY SSC-I**

SECTION - A (Marks 12) Time Allowed: 20 minutes Total Marks: 12

lote: Section-A is compulsory. All parts of this section are to e answered on the question paper itself it should be ompleted in the first 20 minutes and handed over to the entre Superintendent Deleting/overwriting is not allowed. Do ot use lead pencil.

Circle the correct option i.e. A/B/C/D. Each part carries one mark.

Which of these Bioelements is in the highest percentage in Protoplasm?

Hydrogen Carbon A B.

Nitrogen Oxygen Who discovered method the

binomial nomenclature?

Tourn Fort B. John Ray A

E. Chatton D. Carolus Linnaeus (iii) The Inner membrane of mitochondria many Infoldings which called:

Thylakoids A В. Cristae D. Stroma Granum (iv)

In which phase of Cell Cycle, the cell is. preparing enzymes for Chromosome duplication. G1 phase В. G2 phase

S phase D. M phase many molecules of CO2 How

(v) produced when Krebs cycle operates once? A. 01 В. 02 C. 03 \Box 06

Vitamin A

Vitamin C

(vi)

(vii)

(ix)

(x)

(xi)

(xii)

(iii)

(iv)

(v)

(viii)

(xiii)

(xv)

(xiv)

(ix)

What

C.

Α.

Vitamin D ATP was discovered by: Karl Calvin B Linnaeus D. Mendel Genetics is the study of:

Scurvy disease is caused by deficiency of:

В.

D.

Vitamin B

molecules

Lipids

Nucleic acid

 $(11 \times 3 = 33)$

Transmission

Platelets

(b) House Crow

do

B. Parasites Α. Fossils C Environment D. Genes In Stomach pepsinogen is converted into: A. Pepsin B. Bicarbonate

C. HCL Gastrin D. Celiac artery supplies blood to: B. Gonads A. Kidney C. D. Digestive tract Thigh National animal of Pakistan is:

Markhor Tiger Α. В. C. Marcopolo Sheep Houbara bustard D.

category of

Carbohydrates B.

BIOLOGY SSC-I

Time allowed: 2:40 Hours Total Marks Sections B and C: 53

NOTE:- Answer any eleven parts from Section 'B' and any

two questions From Section 'C on the separately provided

enzymes belong to?

Proteins

exceed 3 to 4 lines.

Write the scientific name for:

Electron Microscope (SEM).

(a) Orchid tree

(c) Onion

Differentiate

coenzymes.

(a)

WBCs

answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly. SECTION - B (Marks 33) ELEVEN Attempt any parts. answer to each part should

What are the contributions of Whittaker,

between

Electron. Microscope (TEM) and Scanning

How are prosthetic groups different from

(b)

Give structure and function of Xylem Tissue.

(i) Define the following: (b) Immunology Parasitology (a) (c) Pharmacology (ii) It is difficult to use Criterion of inter breeding to define species of unicellular organisms. Why?

(vi) the functions of Write down Apparatus. Division of prokaryotes is not called mitosis. (vii) Why?

What is meant by non-Disjunction?

Margulis and Schwarts in taxanomy?

(x)Aerobic Differentiate between and Anaerobic Respiration. (xi) Describe three uses of enzymes. Write functions of the following: (xii)

Define the terms Systole and Diastole. SECTION - C (Marks 20) TWO questions. Note: Attempt any questions carry equal marks. $(2 \times 10 = 20)$

Write a short note on Apoptosis.

Write the General Characteristics of Q. 3 a. the five Kingdoms (05)How does Sodium-potassium pump show active Transport? (05)(i) Peristalsis

a. Define the following terms: (02+02+02) (ii) Mastication (iii) Bolus Write b. note a on

Alcoholic 1 (04)Fermentation. How does human heart work as a Q. 5 a. double pump? Explain. (06)Write short notes on: b.

(i) Kwashiorkor (04)(ii) Marsmus