

کوسٹا

No. of Candidate: _____

Time (New Scheme)
20 Minutes

(INTERMEDIATE PART-I) 319-(I)
OBJECTIVE
Code: 6461

Paper: I
Marks: 17

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. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave other blank.

1. A large regional community primarily determined by climate is:
A) biome B) biosphere C) species D) population
2. Human tissue contains about 20% water in:
A) brain cells B) bone cells C) kidney D) skin cells
3. Emil Fischer proposed a lock and key model in:
A) 1990 B) 1880 C) 1800 D) 1890
4. The soluble part of the cytoplasm is called:
A) stroma B) gel C) cytosol D) matrix
5. About 25 minutes after initial infections approximate number of new bacteriophages formed is:
A) 100 B) 200 C) 2000 D) 500
6. Cell wall of gram positive bacteria are stained:
A) pink B) red C) green D) purple
7. Amoebae moves by forming specialized cytoplasmic projection called:
A) cilia B) pseudopodia C) flagella D) tube feet
8. As a result of meiosis, the number of ascospores produced in each ascus is:
A) 06 B) 07 C) 08 D) 05
9. Double fertilization is the characteristic feature of:
A) angiosperm B) gymnosperm C) bryophytes D) anthocerospida
10. All "flatworms" belong to phylum:
A) annelida B) plathyhelminthes C) arthropoda D) nematoda
11. Ancylostoma duodenale is commonly known as:
A) earthworm B) pin worm C) tape worm D) hook worm
12. Each mesophyll cell has about:
A) 80 chloroplast B) 200 chloroplast C) 20 - 100 chloroplast D) 500 chloroplast
13. Pyruvic acid is produced as a result of:
A) kreb's cycle B) glycolysis
C) respiratory chain D) photophosphorylation
14. Length of the duodenum is:
A) 20 - 25 cm B) 20 - 25 meters C) 20 - 25 mm D) 20 - 25 Km
15. The number of pairs of spiracles in abdominal segments of cockroach are:
A) 02 B) 12 C) 08 D) 10
16. The phenomenon in which loss of liquid water through water secreting glands takes place is:
A) imbibition B) guttation C) ascent of sap D) bleeding
17. The mammalian red blood cells are:
A) biconvex B) convex C) concave D) biconcave

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0147-P-1-11-19

ology (New Scheme)

(INTERMEDIATE PART-I) 319

Paper: I

Time: 2:40 Hours

SUBJECTIVE

Marks: 68

Note: Section I is compulsory. Attempt any THREE (3) questions from Section II.

(SECTION - I)

Write short answers to any EIGHT questions.

(2 × 8 = 16)

- i. Sketch ribofuranose and glucopyranose.
- ii. Differentiate between "apoenzyme" and "holoenzyme".
- iii. What is induced fit model? Who proposed it?
- iv. What are reversible and irreversible inhibitors?
- v. Define nuclear mitosis. In which kingdom it is found?
- vi. Define parasexuality.
- vii. Differentiate between "radial cleavage" and "spiral cleavage".
- viii. How insects are beneficial to man?
- ix. Write a short note on ecdysis or moulting.
- x. What are anamniotes and amniotes?
- xi. Define photosynthesis. Give its summary equation.
- xii. What are alcoholic fermentation and lactic acid fermentation?

Write short answers to any EIGHT questions.

(2 × 8 = 16)

- i. What is hydroponic culture technique?
- ii. What is biological control?
- iii. Give postulates of cell theory.
- iv. What is meant by polysome?
- v. Give an example of water molds, why it is notorious?
- vi. How Algae differ from plants?
- vii. What are red tides?
- viii. Give importance of foraminiferans.
- ix. What are spores?
- x. What is phylogenetic system of classification?
- xi. Define imbibition.
- xii. What are blue babies?

Write short answers to any SIX questions.

(2 × 6 = 12)

- i. Give biological classification of corn.
- ii. Differentiate between "microbicidal effect" and "microbistatic effect".
- iii. List processes involved in holozoic nutrition.
- iv. What are macrophagous feeders? Give example.
- v. Write a short note on pyrosis or heart burn.
- vi. How significant parabronchi are in respiration of birds?
- vii. What is mechanism of inhalation of air in man?
- viii. Give % age of oxygen and carbon dioxide in inhaled and exhaled air.
- ix. Write a short note on emphysema.

(SECTION - II)

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| (a) What is cloning? Explain procedures of cloning. | 4 |
| (b) Explain pressure flow theory. | 4 |
| (a) Write note on primary and secondary structure of proteins. | 4 |
| (b) Give economic gains due to fungi. | 4 |
| (a) Discuss economic importance of cyanobacteria. | 4 |
| (b) Discuss life cycle of Maiden-hairfern. | 4 |
| (a) Define Hepatitis. Describe its various types. | 4 |
| (b) Describe respiratory electron transport chain. | 4 |
| (a) What are plastids? Describe main types. | 1+3 |
| (b) How insectivorous plants meet their demands of organic compounds? Describe three methods. | 1+3 |