

FRD-11-19

Roll No. : _____

Objective
Paper Code
6464

Intermediate Part First (New Scheme)
BIOLOGY (Objective) GROUP - II
Time: 20 Minutes Marks: 17



Q.No.1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.

S.#	Questions	A	B	C	D
1	In birds, the organ of voice is called:	Syrinx	Larynx	Vocal card	Parabronchi
2	Marsupium is character of:	Opossum	Dolphin	Duck bill platypus	Bat
3	The number of chloroplast in each mesophyll cell is about:	20 - 400	20 - 120	20 - 200	20 - 220
4	The breaking of the terminal phosphate of ATP releases energy about:	2 K cal	3.7 K cal	17.3 K cal	7.3 K cal
5	pH of fresh saliva is nearly:	6	7	8	9
6	Number of spiracle in cockroach is:	10 pairs	6 pairs	10 pairs	8 pairs
7	Plasma proteins in the blood are about:	9%	9 - 11%	11 - 13%	0.9%
8	The rate of transpiration doubles by every rise of temperature about:	5°C	10°C	15°C	20°C
9	The number of plant species in biodiversity is:	55.1%	17.6%	19.9%	9.4%
10	Number of amino acids in each turn of α -helix is:	3	3.6	0.36	36
11	Salivary amylase work best at pH:	6.80	5.50	4.00	2.00
12	Attachment of two units of ribosomes is controlled by:	Ca ⁺⁺	Mg ⁺⁺	Fe ⁺⁺	Fe ⁺⁺⁺
13	Genus for corn plant is:	Zea	Cassia	Allium	Solanum
14	Pili are made of special protein called:	Flagellin	Tubulin	Fibrinogen	Pilin
15	Cell wall of oomycetes contain mostly:	Chitin	Cellulose	Glycan	Pectin
16	The species of mushroom which are edible are about:	100	1000	200	2000
17	In angiosperm, megaspore develop into female gametophyte which consists of:	3 cells	5 cells	7 cells	9 cells

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FEB 11 G-2-19

Intermediate Part First (New Scheme)
BIOLOGY (Subjective) **GROUP - II**
Time: 02:40 Hours Marks: 68

Roll No. _____

SECTION – I

2. Write short answers to any EIGHT parts.

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- (i) Define heat capacity.
- (ii) What is lock and key model?
- (iii) Define apoenzyme.
- (iv) What is prosthetic group?
- (v) What is nuclear mitosis?
- (vi) Write the scientific name of yeast.
- (vii) What are gemmules?
- (viii) What is radula?
- (ix) What is nymph?
- (x) What do you know about flame cells?
- (xi) What are accessory pigments?
- (xii) What is compensation point?

3. Write short answers to any EIGHT parts.

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- (i) Differentiate between molecular biology and biotechnology.
- (ii) Define community.
- (iii) What is Tay-Sachs' disease?
- (iv) Differentiate between chromoplast and leucoplast.
- (v) What are giant amoeba?
- (vi) How ciliates differ from protozoa?
- (vii) What are foraminiferans?
- (viii) What is kelp?
- (ix) Why bryophytes are called amphibians of plants?
- (x) Define alternation of generation.
- (xi) Define immunity.
- (xii) What is systemic circulation?

4. Write short answers to any SIX parts.

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- (i) Compare prophage with provirus.
- (ii) What is ecological importance of bacteria?
- (iii) Differentiate between secretin and gastrin.
- (iv) Enlist the steps involved in holozoic nutrition.
- (v) Write only two functions of oral cavity.
- (vi) Define photorespiration.
- (vii) What are parabronchi? Give their function.
- (viii) Give a brief description of respiratory distress syndrome.
- (ix) Describe lung capacities.

SECTION – II Attempt any THREE questions. Each question carries 08 marks.

5. (a) Write a note on cloning. 04
(b) Describe the composition of blood plasma. 04
6. (a) Give composition and types of RNA in detail. 04
(b) Describe loose smut of wheat in detail. 04
7. (a) Describe different shapes of bacteria. 04
(b) Give adaptive characters of bryophytes to land habitat. 04
8. (a) Give lytic cycle of bacteriophage. 04
(b) Describe the process of glycolysis. 04
9. (a) Give structure and function of endoplasmic reticulum. 04
(b) Explain digestion in amoeba. 04