



BWP-12-18

Note : Four possible choices A, B, C, D to each question are given. Which choice 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.

Q.No.1	Extracellular Environment may be of diluted solution compared to the cell concentration (1) designated as : (A) Isotonic (B) Hypertonic (C) Hypotonic (D) Cotonic
(2)	Rickets is caused by deficiency of : (A) Vitamin A (B) Vitamin B (C) Vitamin C (D) Vitamin D
(3)	Opening of Flower Bud follows : (A) Photonasty (B) Epinasty (C) Hyponasty (D) Haptonasty
(4)	Excretory Structure present in Cockroach is : (A) Contractile Vacuole (B) Malpighian Tubules (C) Nephredia (D) Flame Cells
(5)	Etiolated Plants grow without : (A) Water (B) Light (C) O ₂ (D) CO ₂
(6)	Apical Dominance is caused by : (A) Gibberellins (B) Cytokinins (C) Ethene (D) Auxin
(7)	Which one is Parthenogenic Fruit : (A) Apple (B) Pineapple (C) Peach (D) Mango
(8)	The total gestation period in human female is usually about : (A) 280 Days (B) 250 Days (C) 265 Days (D) 260 Days
(9)	Which one of the given is Non - Sense Codon : (A) UCC (B) UAA (C) UCG (D) UCU
(10)	Bombay Phenotype is an example of : (A) Pleiotropy (B) Dominance (C) Probability (D) Epistasis
(11)	Each Bivalent is consists of four : (A) Chromosome (B) Chromatids (C) Chiasmata (D) Spore
(12)	Chiasmata formation takes place during : (A) Leptotene (B) Diakinesis (C) Pachytene (D) Diplotene
(13)	Cystic Fibrosis Patients lack gene that codes for transmembrane carrier of : (A) Sulphate Ions (B) Carbonate Ions (C) Chloride Ions (D) Bromide Ions
(14)	The light in this zone is insufficient to support photosynthesis : (A) Limnetic (B) Profundal (C) Littoral (D) Chaparral
(15)	All the Food Chain and Food Webs begin with : (A) Primary Consumer (B) Secondary Consumer (C) Decomposer (D) Producers
(16)	Book " The Origin of Species " was written by : (A) Linnaeus (B) Darwin (C) Lamarck (D) Wallace
(17)	It is a Fossilized Fuel : (A) Water (B) Oil (C) Wind (D) Food



Roll No.	918 - 1) 000	Inter (Part - II)	Session (2015 - 2017) to (2016 - 2018)
Biology (Subjective)	Inter-A-2018	(New Pattern)	Time : 2:40 Hours Marks = 68

Note: It is compulsory to attempt any (8-8) parts each from Q.No.2 and Q.No.3 and attempt any (6) parts from Q.No.4. Attempt any (03) questions from Part II. Write same Question No. and its Part No. as given in the question paper.

Make Diagram where necessary.

Part - I

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22 x 2 = 44

Q.No.2 (i) Why Leaves are said to be Excretophores?

- (ii) What is Glomerulus?
- (iii) What are Pyrogens? Give their functions.
- (iv) How does Tendon differ from ligament?
- (v) What is Active Flight?
- (vi) What is Cramp? Give its causes.
- (vii) What is Follicle Atresia?
- (viii) Define Photoperiodism.
- (ix) Differentiate between Alpine and Boreal Forests.
- (x) What are Phytoplankton and Zooplankton?
- (xi) Explain Ozone Layer.
- (xii) Give two effects of Acid Rain.

Q.No.3 (i) Define Hormones. Enlist their chemical composition.

- (ii) Differentiate between Kinesis and Taxes Behaviour.
- (iii) What are the functions of Follicle Stimulating Hormones?
- (iv) Differentiate between Complete Dominance and Co-dominance.
- (v) What is Pleiotropy? Give its example.
- (vi) What are Sex Influenced Traits? Give an example.
- (vii) Define Transgenic Plants. Give its two uses.
- (viii) Differentiate between Ex-vivo and In-vivo Gene therapy.
- (ix) What is Anther Culture?
- (x) Differentiate between Autecology and Synecology.
- (xi) What are Producers and Consumers?
- (xii) Differentiate between Primary Succession and Secondary Succession.

Q.No.4 (i) Differentiate between Primary and Secondary Growth.

- (ii) Define Regeneration. Give one example.
- (iii) What is Semi-Conservative Model of DNA Replication?
- (iv) Differentiate between Template and Coding Strand of DNA.
- (v) What is Point Mutation? Give one example.
- (vi) What changes occur in Cell during Anaphase of Mitosis?
- (vii) What is the cause and symptoms of Down's Syndrome.
- (viii) Define Hardy Weinberg's Theorem.
- (ix) What are Hydrothermal Vents?

Part - II

Q.No.5 (a) Describe the major Homeostatic Functions of Liver. (4)

(b) Discuss about Nitrogen Cycle. (4)

Q.No.6 (a) Describe the Repair Process of Simple Fracture of a bone. (4)

(b) Describe the process of Translation. (4)

Q.No.7 (a) Describe the role of Adrenal Gland. (4)

(b) Explain the phenomenon of Eutrophication. (4)

Q.No.8 (a) Write a note on Fruit Set and Fruit Ripening. Also discuss Parthenocarpy in Plants. (4)

(b) Write a note on Sex Determination in Plants. (4)

Q.No.9 (a) Describe External Factors of Growth in Plants. (4)

(b) Describe the evidence of evolution with special reference to the Comparative Anatomy. (4)