

## GRAND TEST

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| <b>Biology (New Scheme)</b> | <b>Inter Part II</b>  | <b>Group- I / II</b> |
| <b>Time : 20 Min.</b>       | <b>Objective Type</b> | <b>Marks:17</b>      |

**Note:-** 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 in that question.

- 1.1 Excretory structures present in cockroach are.  
(a) Contractile vacuole (b) Malpighian tubules (c) Nephridia (d) Flame cells
2. High degree of renal failure is also called.  
(a) Uremia (b) Leukemia (c) Anemia (d) Lithotripsy
3. The Inactive non-conducting wood is called.  
(A)Heart wood (B)Sapwood (C)Xylem (D)Phloem
4. Opening of flower Bud follows.  
(A)Photo nasty (B)Epinasty (C)Hyponasty (D)Hyponasty
5. The largest part of brain is.  
(A)Cerebellum (B)Medulla (C)Thalamus (D)Cerebrum  
(A) Water (B) Light (D) CO<sub>2</sub>
6. Etiolated plants grow Without  
(C) O<sub>2</sub>
7. Reptiles and birds are.  
(A)Oviparous (B)Viviparous (C)Viviparity (D)Ovoviviparous
8. Apical dominance is caused by.  
(A)Auxin (B)Ethene (C)Cytokinin (D)Gibberellins
9. Semites are formed and organized by  
(A) Ectoderm (B) Mesoderm (C)Endoderm (D)Blastoderm
10. ABO blood group system was discovered by.  
(A)Mendel (B)K Landsteiner (C)Sutton (D)Correns
11. Aspartame is a  
(A)Monopeptide (B)Dipeptide (C)Tripeptide (D)Polypeptide
12. The true colour blindness is.  
(A)Monochromacy (B)Dichromacy (C)Trichromacy (D)Tetrachromacy
13. Lichens are an example of .  
(A)Parasitism (B)Mutualism (C)Predation (D)Commensalism
14. The macronutrient, in biogeochemical cycle is.  
(A)Iron (B)Calcium (C)Zinc (D)Iodine
15. Earth surface is occupied by the marine water ecosystem.  
(A) 70% (B) 75% (C) 80% (D) 85%
16. It is not fossilized fuel.  
(A) Lignite (B) Peat (C) Natural gas (D) Oil
17. Decomposers and detritus feeders are only living organisms.

**GRAND TEST**

|                             |                        |                      |
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| <b>Biology (New Scheme)</b> | <b>Inter Part II</b>   | <b>Group- I / II</b> |
| <b>Time : 2:40 hours.</b>   | <b>Subjective Type</b> | <b>Marks:68</b>      |

**SECTION - I**

2. Write short answers to any EIGHT (8) questions. (8x2=16)
- Define an hydrobiids with an example.
  - What is lithotripsy?
  - Define ecdysis and give its four stages.
  - Explain the ball and socket joints and give an example.
  - What are the difference between hinge joint and ball and socket joint?
  - What is rigor mortis?
  - How the muscle fatigue is resulted?
  - How does tendon differ from ligament?
  - What is cramp? Give its causes.
  - How does active flight in birds differ from passive flight?
  - What are effectors? Give examples.
  - Difference between reflex arc and reflex action
3. Write short answers to any EIGHT (8) questions. (8x2=16)
- What are neurotransmitters? Give its examples.
  - Differentiate between oviparous and viviparous.
  - Give the function of interstitial cells of testis.
  - What is genital herpes?
  - Differentiate between heterochromatin and euchromatin.
  - Differentiate between pyrimidines and purines.
  - Differentiate between homologous and analogous organs.
  - Define food chain and food web only.
  - Differentiate between primary growth and secondary growth in plant.
  - Differentiate between area opaca and area pellucida.
  - Give significance of predation
  - Differentiate between Hydrosere and Xerosere.
4. Write short answers to any SIX (6) questions. (6x2=12)
- What is test cross? Give its significance?
  - What are restriction enzymes? Give an example
  - Write three methods to get gen of interest.
  - What are palindromic sequences? Give their significance.
  - Give difference between ex vivo and in vivo gene therapy
  - Define Mutualism. Give examples.
  - Mention any four ways in which we can save energy.
  - Define demography. Give its importance.
  - Explain about industrial effluents.



**SECTION – II**

**Note: Attempt any THREE (3) questions:**

**(3 x 8 = 24)**

5. (a) Describe the role of nucleus in development by giving example of Acetabularia . 4  
(b) Write a note on greenhouse effect. 4
6. (a) Highlight the role of liver as an excretory organ. 4  
(b) Explain ultra-structure of myofibrils of skeletal muscle fibers. 4
7. (a) Explain sliding filament model of muscle contraction. 4  
(b) Write down male reproductive system in Humans. 4
8. (a) How DNA replicates? 4  
(b) Explain Darwin theory of natural selection. 4
9. (a) Define succession. Explain the different stage of xerosere. 4  
(b) Write a note on ozone layer depletion. 4
- 4**

