



**PYRAMID**

IIT-JEE | MEDICAL | FOUNDATION

*Innovative Learning Centre*

## BOARD TEST SERIES PAPER

STD : XII

SUBJECT : BIOLOGY

TOPIC : FULL SYLLABUS

TIME : 3 HR.

MAX. MARKS : 70

### SECTION - A

- Q.1 Select and write the correct answer. [10]**
01. Hemophilia is more commonly seen in human males than in human females because \_\_\_\_\_  
(a) a greater proportion of girls die in infancy  
(b) this disease is due to Y-linked recessive mutation  
(c) this disease is due to X-linked recessive mutation  
(d) this disease is due to X-linked dominant gene
02. One of the scientist was NOT involved in the discovery of DNA as chemical basis of heredity.  
(a) Hershey and Chase (b) Griffith  
(c) Avery, Macleod and McCarty (d) Watson and Crick
03. PCR is a unit that synthesis Multiple copies of \_\_\_\_\_  
(a) DNA (b) Protein (c) enzyme (d) Hormone
04. Which of the following mentioned exhibits less seasonal variations?  
(a) Tropics (b) Temperates (c) Alpines (d) Both (a) and (b)
05. The arterioventricular groove is also known as \_\_\_\_\_.  
(a) Coronary sulcus (b) Coronary sinus  
(c) Foramen ovale (d) Ligamentum arteriosum
06. Innate immunity is provided by \_\_\_\_\_.  
(a) phagocytes (b) antibody (c) T-lymphocytes (d) B-lymphocytes
07. Location and secretin of Leydig cells are \_\_\_\_\_.  
(a) liver-cholesterol (b) ovary-oestrogen  
(c) testis-testosterone (d) pancreas-glucagon



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*'You should never let your fears prevent you from doing what you know is right.'*

*Aung San Suu Kyi - Burmese politician, diplomat and author (b.1945)*

08. Osmosis is a property of \_\_\_\_\_.  
(a) solute (b) solvent (c) solution (d) membrane
09. Give the term used to express a community in its final stage of succession.  
(a) End community (b) Final community  
(c) Climax community (d) Dark community
10. The branch of biology that deals with study of interaction between organisms and environment is called \_\_\_\_\_.  
(a) physiology (b) morphology (c) ecology (d) ecosystem

**Q.2 Answer the following.**

**[08]**

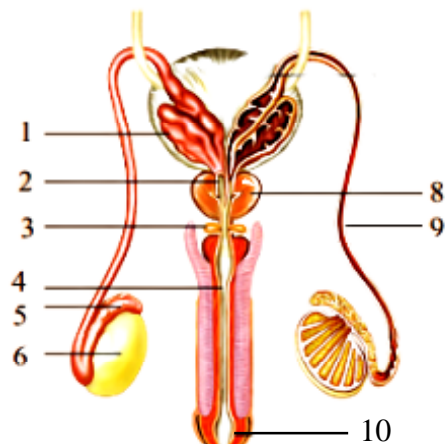
01. Name a synthesis cytokinin.
02. Name any two modern methods of ex situ conservation of species.
03. Syphilis is caused by \_\_\_\_\_ bacteria.
04. Name two ancient cooking practices which are based on biotechnology.
05. What does make idlies puffy?
06. Why do we suffer from common cold repetitively in our life, but other viral diseases like Influenza or Small pox only once?
07. Who coined the term ecosystem?
08. Define the term : Thrombocytosis

**SECTION B**

**Attempt any Eight**

- Q.3 Write the Benefits of Biofertilizers. [02]
- Q.4 Name & explain the types of Nuclease. [02]
- Q.5 Define population and Community. [02]
- Q.6 What is meant by conservation of natural resource? What is the need for conservation? [02]
- Q.7 Explain the terms : [02]  
(1) Apocarpous flower (2) Syncarpous flower
- Q.8 Why water is known as elixir of life? [02]

Q.9 Label the given male reproductive system you have studied. [02]



Q.10 Mention the function of Testosterone. [02]

Q.11 Justify the statement. If the answer is false, change the underlined word(s) to make the statement true. [02]

The process of translation occurs at the ribosome.

Q.12 AV node is necessary for the conduction of the cardiac impulse. [02]

Q.13 Draw a labelled diagram of Human ear. [02]

Q.14 Write a note on : Linkage groups

### SECTION - C

#### Attempt any Eight

Q.15 What is the role of ethylene in plants? (OR) Give the application of ethylene. [03]

Q.16 Explain the terms : Splicing, Capping, Tailing [03]

Q.17 Write a short note on : Human Evolution. [03]

Q.18 Justify the statement. If the answer is false, change the underlined word(s) to make statement true. [03]

Q.19 Describe the T.S. of Anther.

- Q.20 Describe the structure of Root hairs its regions [03]
- Q.21 Distinguish between : Habitat and Niche [03]
- Q.22 What are the main classification of periopheral nervous system? [03]
- Q.23 Distinguish between self pollination and cross pollination. [03]
- Q.24 Explain polyembryony. What all its advantages? [03]
- Q.25 Explain the external genitalia of men in detail [03]
- Q.26 How was Gibberlins discovered and synthesized? [03]

## SECTION - D

### Attempt any Three

- Q.27 Describe the process of Double fertilization [04]
- Q.28 With the help of neat labeled diagram, describe the conducting system of the Human Heart. [04]
- Q.29 Describe in brief, an account of disorders of adrenal grand. [04]
- Q.30 Describe the phases of Menstrual cycle and their Hormonal control. [04]
- Q.31 Give the steps in PCR or polymerase chain reaction with suitable diagrams [04]