



Question Bank For PG Course

Zoology

Paper-7B

ENDOCRINOLOGY, CELL & TISSUE STRUCTURE AND FUNCTION : PGZO-VIIB

Question 1

What is triggered by a surge of Luteinizing Hormone (LH) in sexually mature females?

Question 2

Which portion of the transmembrane proteins, spanning the lipid bilayer of a bio-membrane with portions exposed on both sides of the membrane, is hydrophobic in nature?

Question 3

Which type of signalling is involved in conduction of an electric impulse from one nerve cell to another, mediated by neurotransmitters?

Question 4

Why the steroid hormones can pass through the cell membrane and the non-steroid hormones can't pass through the cell membrane?

Question 5

What happens to a cell undergoing apoptosis?

Question 6

Which amino acid is related to the production of the Catecholamines?

Question 7

What are the characteristics of the Signal or Leader sequences of a protein?

Question 8

Which endocrine gland secretes oestrogen hormone?

Question 9

Which cells are stimulated by Follicle Stimulating Hormone (FSH) to secrete Androgen-binding Protein (ABP)?

Question 10

Which protein is the precursor for the thyroid hormone?

Question 11

Which cytosolic protein acts as Guanine nucleotide-exchange factor or protein (GEF) in RTK signalling pathway?

Question 12

What is the biological action of Prolactin hormone?

Question 13

What are the symptoms of Hyperaldosteronism?

Question 14

What change does occur in an inactive G-protein after being stimulated by the activated G-protein coupled receptors?

Question 15

Which Gastrointestinal hormone appears to be a strong stimulant for appetite and feeding?

Question 16

What does cAMP activate?

Question 17

Which types of cell secrete Prolactin hormone?

Question 18

What does FSH do in males?

Question 19

What can be the controlling factor for the synthesis of Thyroid hormones?

Question 20

Which part of the Adrenal gland secretes Mineralocorticoids?

Question 21

Which enzyme catalyses the conversion of norepinephrine to epinephrine?

Question 22

Which part of the phospholipid molecule is hydrophobic in nature?

Question 23

Arrange the following sequence of extracellular signalling in the correct order?

- i. Transport of signalling molecules to the target cell
- ii. A change in cellular metabolism, function, or development triggered by the receptor-signal complex
- iii. Removal of signal which often terminates the cellular response
- iv. Synthesis and release of signalling molecules by cell
- v. Detection of signals by the specific receptors of the target cell

Question 24

Which segment of the G- protein coupled receptors (GPCR) remains on the cytoplasmic face of the plasma membrane?

Question 25

Which chemical reaction is required for the conversion of Androstenedione to oestrogen?

Question 26

What is the major activity of Secretin hormone?

Question 27

What is the example of a Guanine nucleotide-exchange protein or factor (GEF)?

Question 28

Which gland produces and secretes Gonadotropin releasing hormone (GnRH)?

Question 29

What can cause Cushing's Syndrome?

Question 30

How the proteins of IAP (Inhibitor of apoptosis) family, inhibit the apoptosis?