

MID TERM EXAMINATION

MARKING SCHEME

CLASS - XI BIOLOGY

- Ans 1 Lichen, Mycorrhiza with explanation (1+1)
- Ans 2 Porifera, Annelida (1+1)
- Ans 3 - Decreased respiratory surface due to alveolar damage.
- Smoking (1+1)
- Ans 4 Deuteromycetes, Only asexual mode of reproduction (1+1) (1+1)
- Ans 5 Any 2 disease with one symptom of each.
- Ans 6 - Cartilagenous fishes, ventral mouth, placoid scale, No air bladder
- Bony fishes, Terminal mouth, cycloid scale, air bladder present (any 2 points) (1+1)
- Ans 7 Fall in GFR activates JG, JG release renin
renin stimulates glomerular blood flow, GFR back to normal
JGA-sensitive region, in DCT and afferent arteriole (1₂ x 6)
- Ans 8 Pigment - Fucoxanthin chl.a,c, food, - Mennitol laminarin
Flagella - 2, unequal (1x3)
- Ans 9 Diagram + labelling (1+1 x 4)
- Ans 10 i) Four round lobes in dorsal portion of mid brain.
ii) Brain covering layers - Dura mater, arachnoid and pia mater
iii) microscopic gap at the junction of 2 neurons (1x3)
- Ans 11 OR
Inner part of cerebral hemisphere and structures like amygdala, hippocampus etc.
Controls emotions, motivation and sexual behaviour. (2+1)
- Ans 11 Radial symmetry, Asymmetrical, Bilateral symmetry
Definition of each with example. (1x3)
- Ans 12 Diagram + labelling (1+2)
OR
Alveolar wall, Basement membrane, Alveolar capillary endothelium (1x3)
Squamous epithelium

Ans 13 TSH - Pituitary, stimulates synthesis & secretion of thyroid hormone

catecholamine - Adrenal medulla, emergency hormones, increase heart beat, alertness, piloerection etc.

Prolactin - Ant Pituitary, growth of mammary gland and milk secretion (IX3)

(b) Explanation in brief :-

① Protein hormone alters cell's metabolic activity

Steroid - Alters structure in DNA. (I+1)

OR

Working of nephron in brief.

Glomerulus, PCT, Henle loop, DCT

(I+1+2+1)

Ans 14 - Ctenophora - 8 comb plates, Bioluminescence

Arthropoda - Joint appendages, open circulatory system
Excretion through malpighian tubule (any 2)

Mollusca - Shelled body, head, foot and hump present
mantle cavity; radula present (any 2)

Pteridophyta - True root, stem and leaf present
vascular tissue present

Gymnosperms - Naked seeded plants, ovules not enclosed by safty walls, unbranched stem (any 2)

OR

Granulocytes - Neutrophils, Eosinophils, basophils

Agranulocytes - Lymphocytes and monocytes

Neutrophils and monocytes - phagocytes

Basophils - secretes histamine, serotonin, heparin give inflammatory reaction

Eosinophils - kills infection, deal with allergy

Lymphocyte - provide immunity.. (IX5)