

Sardar Kaurey Khan Public Higher Secondary School Muzaffargarh

BIOLOGY

1st Quarter Test

INTER PART-II

Time Allowed: 10 minutes

(Objective Type)

Max. Marks: 10

Q.1

- (i) ADH acts on _____ to promote reabsorption of water in vertebrate nephron.
- (A) Proximal convoluted tubule (B) Collecting tubule
(C) Ascending limb (D) Descending limb
- (ii) In living control system the response is shown by:
- (A) Receptors (B) Sensor
(C) Control centre (D) Effector
- (iii) Shivering thermogenesis involve:
- (A) Thalamus (B) Medulla
(C) Muscles (D) Thyroid gland
- (iv) Sclerenchyma cells found in seed coat and nut shells:
- (A) Sclereides (B) Tracheids
(C) Fibers (D) Vessels
- (v) The smallest contractile unit of muscle fiber is:
- (A) I-band (B) A-band
(C) Sarcomere (D) Myofilament
- (vi) Muscle twitches and convulsion are symptoms of:
- (A) Tetanus (B) Tetany
(C) Cramp (D) Muscle fatigue
- (vii) Part of nervous system that controls voluntary movements by activating skeletal muscles is:
- (A) Sympathetic nervous system (B) Parasympathetic nervous system
(C) Peripheral nervous system (D) Somatic nervous system
- (viii) Which hormone is produced by ruptured follicle in response to LH from the pituitary?
- (A) Progesterone (B) Oestrogen
(C) LTH (D) FSH
- (ix) Electromagnetic receptors are:
- (A) Nociceptors (B) Chemoreceptors
(C) Photoreceptors (D) Mechanoreceptors
- (x) α -amylase production in barley is stimulated by:
- (A) NAA (B) 2,4 D
(C) IAA (D) GA₃

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BIOLOGY

1st Quarter Test

INTER PART-II

Time Allowed: 1:35 hours

(Subjective Type)

Max. Marks: 40

SECTION-I

Q.2 Write short answers to any TWELVE (12) questions.

(12 × 2 = 24)

- (i) How do hydrophytes osmoregulate?
- (ii) What is peritoneal dialysis?
- (iii) What are heat shock proteins? Give their role.
- (iv) Why are leaves named as excretophore?
- (v) What is ebony?
- (vi) Define heterotherms. Give examples.
- (vii) What is nutation?
- (viii) What is osteoporosis? How is it treated?
- (ix) Differentiate between effective stroke and recovery stroke.
- (x) Enlist some functions of skeleton.
- (xi) Give significance of ecdysis in arthropods.
- (xii) Differentiate between heart wood and sapwood.
- (xiii) What is cretinism?
- (xiv) What are galls?
- (xv) List different types of tropisms.
- (xvi) Define circadian rhythms.
- (xvii) What is latent learning?
- (xviii) What is synapse?

SECTION-II

Note: Attempt any TWO (02) questions.

(8 × 2 = 16)

- Q.3**
- (a) Discuss osmoregulation in marine animals. (4)
 - (b) Explain turgor movements in plants. (4)
- Q.4**
- (a) Describe the excretory system of cockroach. (4)
 - (b) Explain feedback mechanism with example. (4)
- Q.5**
- (a) Discuss sliding filament model of muscle contraction. (4)
 - (b) Describe anterior pituitary as “Master gland”. (4)