

Gurudas College
Internal Assessment 2021
Zoology Honours
Paper: ZOOA-CC3-6-TH

FM: 10

Time: 30 Minutes

(Answer *any Ten Multiple Choice Questions* of the following)

1. The granules of the β cells of the endocrine pancreas are
 - a. 200 nm in diameter
 - b. 250 nm in diameter
 - c. 300 nm in diameter
 - d. 350 nm in diameter

2. Which is not the function of the TH
 - a. Regulates tissue basal metabolism
 - b. Downregulates bone resorption
 - c. Increases requirement for vitamins
 - d. Affects sleep

3. Match the following dysfunctions to their relevant hormones
 - GROUP A
 - a. Acromegaly
 - b. Cushing's disease
 - c. Graves' disease
 - d. Polycystic ovary syndrome
 - GROUP B
 1. TSH
 2. GH
 3. LH
 4. ACTH

4. Cells of the Zona Glomerulosa are
 - a. In straight cords separated by sinusoidal capillaries
 - b. In irregular cords forming anastomosing network with fenestrated capillaries
 - c. Made of clumps of polyhedral parenchymal cells
 - d. In oval columns surrounded sinusoidal capillaries

5. State whether True or False
 - a. Epiphysis is the bone shaft
 - b. Diaphysis maybe the proximal or distal part of the bone
 - c. Metaphysis contains the growth plate, the part of the bone that grows during childhood, and as it grows it ossifies near the diaphysis and the epiphyses.
 - d. The endosteum is a thin membrane that lines the marrow cavity

6.
 - a. Endocrine structures of the hypothalamus include the paraventricular and supraoptic nuclei
 - b. Pituitary-hypothalamic axis is under feedback control from its peripheral targets
 - c. The ultra-short loop feedback allows the hypothalamic releasing hormones to control their own synthesis
 - (i) All the above are true
 - (ii) all the above are false
 - (iii) some of the above are true

7. Which one is not true for Isotonic muscle contraction:
 - a. The tension in muscle remains same
 - b. The length of the muscle changes
 - c. No external work is done
 - d. a and b

8. A sarcomere, the complicated unit of striated muscle tissue is the repeating unit :
- between two Z lines
 - between two I bands
 - between two M lines
 - no one above
9. Transitional epithelium is found on:
- Urinary bladder
 - Liver
 - Intestine
 - Lung
10. Depolarization occurs due to:
- efflux of sodium ions
 - efflux of potassium ions
 - influx of sodium ions
 - influx of potassium ions
11. EPP occurs at:
- electrical synapse
 - chemical synapse
 - mixed synapse
 - neuromuscular junction
12. After ovulation Graafian follicle is converted into :
- atretic follicle
 - corpus luteum
 - corpus albicans
 - corpus hemorrhagicum
13. Sertoli cell secretes:
- Inhibin
 - Testosterone
 - Androgen
 - Estrogens
14. SER and lipofuchsin droplets are characteristic features of:
- Sertoli Cell
 - Leydig cell
 - Follicle cell
 - Corona radiate
15. Which is not a placental hormone?
- hhCG
 - hPL
 - Testosterone
 - hGH