

**GURUDAS COLLEGE**  
**INTERNAL ASSESSMENTS 2021**  
**ZOOLOGY (HONS)**  
**DSE (B)-5-1-TH: ENDOCRINOLOGY**

FM: 10

Time : 30 Minutes

**Answer any 10 of the following**

1. Ultimobranchial gland secretes
  - a. Prolactin
  - b. Oxytocin
  - c. Calcitonin
  - d. Melatonin
  
2. Inhibin is secreted from
  - a. Sertoli cell
  - b. Leydig cell
  - c. Follicle cell
  - d. Granulosa cell
  
3. After ovulation, Graafian follicle is converted into
  - a. Atretic follicle
  - b. Corpus albicans
  - c. Corpus hemorrhagicum
  - d. Corpus luteum
  
4. Calbindin protein is present in
  - a. Plasma
  - b. Bone
  - c. Kidney
  - d. Small intestine
  
5. Insulin activates
  - a. Glycogenesis
  - b. Glycogenolysis
  - c. Neoglucogenesis
  - d. Lipolysis
  
6. Which is not basophilic
  - a. Gonadotrope
  - b. Somatotrope
  - c. Corticotrope
  - d. Thyrotrope
  
7. Milk -let down is controlled by
  - a. Estrogen
  - b. Progesterone
  - c. Prolactin
  - d. Oxytocin

8. Blood-testes barrier is formed by
  - a. Sertoli cell - Sertoli cell
  - b. Sertoli cell- Leydig cell
  - c. Spermatid-sertoli cell
  - d. Sertoli cell - basement membrane
  
9. Receptor tyrosine kinases (RTKs)
  - a. Are a family of integral transmembrane proteins having 7 transmembrane domains and linked to a heterotrimeric G protein
  - b. Are transmembrane proteins with an extracellular domain that binds ligands like hormones and an intracellular kinase domain.
  - c. Have a phosphate group from ATP first added to a histidine residue of the kinase, then transferred to an aspartate residue on the same kinase or a different protein, thus activating the aspartate residue.
  - d. Act in signal transduction from extracellular matrix components such as fibronectin and collagen
  
10. Acidophilic cells secrete
  - a. TSH
  - b. GH
  - c. ACTH
  - d. GTH
  
11. 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
  
12. Ketoacidosis develops in
  - a. NIDDM
  - b. IDDM
  - c. GDM
  - d. None of the above
  
13. PTH increases blood calcium levels by
  - a. directly stimulating osteoblasts
  - b. indirectly stimulating osteoblasts
  - c. not affecting osteoblasts
  - d. inhibiting the osteoblasts
  
14. This primarily regulates milk production in women during late pregnancy and lactation
  - a. HPG axis
  - b. HPA axis
  - c. HPT axis
  - d. HPP axis
  
15. The HHPS is a conduit connecting
  - a. Hypothalamus to the adenohypophysis
  - b. Hypothalamus to the neurohypophysis
  - c. Limbic system to the adenohypophysis
  - d. Limbic system to the neurohypophysis