

**Avinashilingam Institute for Home Science and Higher Education for Women
Coimbatore-641043.**

**Master's Degree Examination –November 2017
. I Semester**

**Class : I PG
Major : Biochemistry**

**Time: 3 hours
Max.Marks: 60**

**17MBCC04 Pharmaceutical and Hormonal Biochemistry
Part A**

10 x 1/2 = 5

Choose the correct answer

1. _____ is the major route of elimination of drug metabolites like water soluble conjugates like glucuronides
a) Biliary excretion b) Pulmonary excretion c) Renal excretion d) All of the above
2. Flavin Coenzymes are essential for _____
a) Microsomal and non microsomal oxidation b) Microsomal reduction
c) Reduction d) Conjugation
3. Receptor theory was postulated by _____
a) Langley b) Renard c) Paul d) Lederberg
4. Folic acid synthesis is inhibited by _____
a) Penicillin b) Chloroquine c) Sulphonamide d) Quinine
5. Release of Calcium from endoplasmic reticulum is increased by _____
a) Diacyl glycerol b) Inositol tri phosphate c) Parathyroid d) Calcitonin
6. Group I hormones bind with _____ receptors
a) Intracellular b) Nuclear c) Cell surface d) Cytoplasmic
7. All of the following hormones are produced from cholesterol except _____
a) Testosterone b) Progesterone c) Estradiol d) Epinephrine
8. The release of _____ is inhibited by thyroxine
a) Lutenising hormone b) Prolactin
c) Thyroid stimulating hormone d) Growth hormone
9. The hormone _____ is associated with Diuresis
a) Vasopressin b) Oxytocin c) Prolactin d) Glucagon
10. The hormone that promotes Hypoglycemia is _____
a) Epinephrine b) Insulin c) Norepinephrine d) Glucagon

Part B

5 x 4 = 20

Answer ALL questions

Each answer should not exceed 200 words or one page

- 11.a) Discuss on various sources of drugs?
(Or)
11.b) Write a note about factors influencing drug absorption?
12. a) Write short note on drug receptor interactions?
(Or)
12.b) Briefly describe the Biochemical basis of toxicity?
- 13.a) Add a note on dose response curve?
(Or)
13.b) Explain the role of cAMP in regulation of hormone action?
- 14.a) Add a note on the disorders associated with Ovarian hormones?
(Or)
14.b) Explain in brief about functions of testosterone?
- 15.a) What are hypothalamic factors?
(Or)
15.b) Comment on the antagonistic action of insulin and glucagon?

Part C

5x 7 = 35

Answer ALL questions

Each answer should not exceed 600 words or three pages

- 16.a) Explain in detail about Phase II metabolic pathways of drug biotransformation?
(Or)
16.b) Give an account on factors influencing drug absorption?
- 17.a) Elaborate on the mode of action and uses of sulphonamides ?
(Or)
17.b) Give an account on the mechanism of action of penicillin?
- 18.a) Emphasize the role of secondary messengers in the action of hormones
(Or)
18.b) Describe the mechanism of action of Group I hormones ?
- 19.a) Explain the chemistry, synthesis and functions of parathyroid hormones
(Or)
19.b) Describe about the synthesis and functions of thyroid hormones ?
- 20.a) Write an account on hormones of anterior pituitary gland ?
(Or)
20.b) Explain the biosynthesis of adrenal medullary hormones?
