



Theory Second Sessional Examination June.-2022

Sub: -Human Anatomy and Physiology-II (BP201T)

Class & Sem: - F.Y.B.Pharm (II)

Marks: - 30

Time: - 1.5Hr.

Q. 1. Solve Multiple Choice Questions. (10)

- 1) The net filtration pressure is _____ mm Hg.
a) 20 b) 125 c) 60 d) 180
- 2) Which How many major calyx present in kidney:
a) 8 b) 2 or 3 c) 10 d) Millions
- 3) Which hormone release FSH & LH from anterior Pituitary
a) Oxytocin b) T3 c) Gonadotropin Releasing Hormone d) somatotropin
- 4) Which of the following has both endocrine and exocrine functions?
a) Pituitary Gland b) Thyroids gland c) Thymus d) Pancreas
- 5) Corpus luteum is the source of secretion of,
a) Progesterone b) Estrogen c) LH d) All of Above
- 6) How many number of sperm produce by healthy male in each day?
a) 500 million sperm b) 300 million sperm c) 100 million sperm d) None of Above
- 7) The Sertoli cells are?
a) Nutritive b) Protective c) Meninges d) All of Above
- 8) Seminiferous tubules develop central lumen after Puberty,
a) False b) True
- 9) The Glomerular capillary pressure is the highest capillary pressure in the body is that.
a) True b) False
- 10) How many phases of ovarian cycle?
a) 2 b) 3 c) 1 d) 5

Q.2. Write any Two (10)

- a) Write anatomy & Physiology of Adrenal gland
- b) Explain Process of Urine Formation.
- c) Describe about Menstrual Cycle.

Q. 3. Write any One (10)

- a) Write Anatomy and Physiology of Female Reproductive System..
- b) Define Hormone? Describe Hormone secreted by Pituitary Gland.



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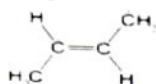
Sub: - POC-III

Marks: - 30

Class & SEM: - Second Year B. Pharm
Time:-1.5Hr.

Q. 1. All questions are compulsory.

- (10)
- The first chirality due to restricted rotation about a single bond was described by:
a) Fischer
b) Biot
c) Van't Hoff & Le Bel
d) Christie & Kenner
 - In Hantzsch synthesis, interaction of thioamides & halo-carbonyl compound gives :
a) Thiazole
b) Imidazole
c) Pyridine
d) Pyrazole
 - The term 'axial' in chair form of cyclohexane refers to:
a) Parallel to plane of ring
b) Perpendicular to plane of ring
c) Out of plane
d) Syn-periplanar
 - Dehydrohalogenation of 2-iodo-butane yields:
a) 60% trans-2-butene & 20% cis-2-butene
b) 50% trans-2-butene & 50% cis-2-butene
c) 50% trans-2-butene & 20% cis-2-butene
d) 60% trans-2-butene & 40% cis-2-butene
 - Assign E or Z configuration to the given compound.



- E-configuration
b) Z-configuration
c) S-configuration
d) R-configuration
- What are Stereoisomers?
a) Isomers having a same molecular formula and same configuration
b) Isomers having a same molecular formula but different configuration
c) Isomers having a different molecular formula but the same configuration
d) Isomers having a different molecular formula and different configuration
- Identify the chiral molecule among the following.
a) Isopropyl alcohol
b) 2-pentanol
c) 1-bromo 3-butene
d) Isobutyl alcohol
- In Marckwald Synthesis, the reaction of α -amino ketones with _____ produces
a) thiocyanates, 2-aminoimidazole
b) benzyl, 2-aminoimidazole
c) cyanamides, 2-mercaptoimidazoles
d) isothiocyanates, 2-aminoimidazole
- Medicinal uses of Imidazole are except:
a) Antifungal
b) Anti-infectives
c) Antiulcer
d) Platelet aggregation inhibitor
- 2-Aminothiazole like aniline undergoes diazotization with HNO_2 to give:
a) Aminothiazole
b) Diazonium ion
c) α -halo carbonyl compounds
d) 2-Mercaptothiazole

Q.2. Write any two

- Write a short note on synthesis & reactions of quinoline.
- Explain Beckmann's rearrangement reaction.
- Write a note on equatorial and axial bonds in cyclohexane.

(10)

Q.3. Write any one

- Discuss the conformational isomerism in n-butane in detail.
- Write synthesis, chemical reactions & medicinal uses of Imidazole.

(10)