

QP Code: 221006

Reg. No.....

Second Semester B. Pharm Degree Supplementary Examinations January 2022

Human Anatomy and Physiology II

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essays

(2x10=20)

- 1. Explain the structure and functions of human brain
- 2. Explain the anatomy of urinary tract and mention the disorders of kidney.

Short Notes

(7x5=35)

- 3. Write the difference between sympathetic and parasympathetic nervous system.
- 4. Mention the pancreatic enzymes and write their functions
- 5. Artificial respiration
- 6. Adrenal gland and its hormones
- 7. Anatomy of lungs
- 8. Structure and function of testis
- 9. Protein synthesis

Answer Briefly

(10x2=20)

- 10. Progesterone
- 11. DNA structure
- 12. Functions of parathyroid gland
- 13. Oxytocin
- 14. Tidal volume
- 15. Anatomy of larynx
- 16. Creatinine
- 17. Salivary glands
- 18. Resting potential
- 19. Astrocytes



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Second Semester B. Pharm Degree Supplementary Examinations January 2022

Pharmaceutical Organic Chemistry I

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- Answer all questions to the point neatly and legibly Do not leave any blank pages between
 answers Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together *Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essays

(2x10=20)

- 1. Discuss SN₁ and SN₂ reactions with the help of suitable examples and discuss its mechanism.
- 2. Explain any four methods of preparation of alkenes. Add a note on E₁ reactions.

Short Notes

(7x5=35)

- 3. Explain the mechanism of electrophilic addition reactions of alkenes with any two examples.
- 4. Summarize the qualitative analysis of primary secondary and tertiary amines.
- 5. Describe the mechanism of Diel-Alder reaction.
- 6. What are carbocations. Explain the stability of carbocations with suitable examples.
- 7. Explain the following: Cannizzaro reaction, Saytzeffs rule
- 8. Explain the structural isomerism. Draw the structural isomers for $C_4H_8O_2$ containing the group

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9. Outline any four methods for the preparation of aldehydes.

Answer Briefly

(10x2=20)

- 10. Electromeric effect
- 11. SP³ hybridization
- 12. Ozonolysis
- 13. Perkin condensation
- 14. Tollens' reagent and its importance.
- 15. Structure and uses of methyl salicylate and cetosteryl alcohol.
- 16. Mention any one qualitative test for amide and carboxylic acid.
- 17. Alkenes are more reactive than alkanes. Justify
- 18. Medicinal uses of iodoform and amphetamine
- 19 Complete the reaction: CH₃CH₂NH₂+CHCl₃ + 3KOH -----

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Biochemistry

(2017 Scheme)

Time: 3 Hours Max. Marks: 75

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- Answer all parts of a single question together Leave sufficient space between answers
- Draw diagrams wherever necessary

Essays

(2x10=20)

- 1. Briefly discuss about the citric acid cycle with its energetics and significance.
- 2. Discuss about the de-novo synthesis of fatty acids.

Short Notes (7x5=35)

- 3. Mechanism of Electron Transport Chain (ETC)
- 4. Hormonal regulation of blood glucose level and diabetes mellitus.
- 5. Explain briefly the structure of DNA. Enumerate its functions.
- Synthesis and significance of 5-HT.
- 7. Diagnostic applications of enzymes.
- 8. Biological significance of ATP and cyclic AMP.
- 9. Explain briefly transamination reaction of amino acid metabolism.

Answer Briefly

(10x2=20)

- 10. Enzyme induction.
- 11. Genetic code
- 12. Translation
- 13. Inhibitors of electron transport chain
- 14. Significance of glycolysis
- 15. Biological significances of dopamine.
- 16. Ketoacidosis
- 17. Glucose-6-Phosphate dehydrogenase deficiency.
- 18. Concept of free energy
- 19. Hyperuricemia

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Second Semester B. Pharm Degree Supplementary Examinations
Adamuary 2022

Pathophysiology

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- · Draw diagrams wherever necessary

Essays

 $(2\times10=20)$

- 1. Write the pathogenesis, classification, complications and management of diabetes
- 2. Explain in detail about pathophysiology, etiology, mode of transmission, prevention and control of tuberculosis

Short Notes (7x5=35)

- 3. Basic principles of wound healing in skin
- 4. Differentiate between depression and schizophrenia
- 5. Pathophysiology of alcoholic liver disease
- 6. Signs, symptoms and pathophysiology of hypothyroidism
- 7. Etiology and pathophysiology of ulcerative colitis
- 8. Mention the causes, mode of transmission of various Hepatitis
- 9. Differentiate between rheumatoid arthritis and gouty arthritis

Answer Briefly (10x2=20)

- 10. Mention the types of feedback system
- 11. Acidosis
- 12. Define calcification
- 13. Arteriosclerosis
- 14. Sickle cell anemia
- 15. Osteoporosis
- 16. Microalbuminuria
- 17. Gout
- 18. Tumor necrosis factor
- 19. Benign and metastatic carcinoma

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