QP Code: 221006 **Reg. No…….**

Second Semester B. Pharm Degree Regular/Supplementary Examinations June 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. Define digestion. Describe in detail the process of digestion.
2. Explain the physiology of urine formation

Short Notes **(7x5=35)**

3. Cerebellum
4. Role of ATP
5. Anatomy and functions of liver
6. Cellular respiration
7. Pituitary hormones and their functions
8. Oogenesis
9. Protein translation

Answer Briefly **(10x2=20)**

10. Ventricles of brain
11. Tidal Volume
12. Regulation of heat loss
13. Constituents of urine
14. Structure of villi
15. Anatomy of bronchial tract
16. Glucagon
17. Urinary bladder
18. Estrogen
19. Sex linked inheritance

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QP Code: 222006 **Reg. No…….**

Second Semester B. Pharm Degree Regular/Supplementary Examinations June 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. What is Cannizzaro reaction and Benzoin condensation reaction. Explain with mechanism.
2. Compare SN_1 reaction and SN_2 reaction. Explain the reactivity of reactants in SN_1 reaction and rearrangement of carbocations

Short Notes **(7x5=35)**

3. Explain inductive effect with a suitable example.
4. Explain Anti-Markownikoff's orientation.
5. Explain the electrophilic addition reactions of alkenes.
6. Discuss SP^3 hybridization in alkanes.
7. Explain the factors affecting E_1 and E_2 reactions.
8. Give the structure and uses of lactic acid and glycerol
9. Three general methods of preparation of alcohols.

Answer Briefly **(10x2=20)**

10. Mention the IUPAC name of CH_2=CH-CH_2- CH_2-CH=CH_2
11. Explain positional isomerism with an example.
12. Give the structure of acetic acid and propylene glycol.
13. What are the uses of cetosteryl alcohol and iodoform
14. Why formaldehyde doesn't undergo aldol condensation.
15. Explain Saytzeff's rule.
16. Give the structures of amphetamine and benzaldehyde.
17. Give two qualitative tests for amines.
18. Structural formula for 2,3-dimethylbutane.
19. Electromeric effect.

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QP Code: 223006 **Reg. No…….**

Second Semester B. Pharm Degree Regular/Supplementary Examinations June 2022

Biochemistry

(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 **(2x10=20)**

1. Explain HMP Shunt with its significance.
2. Describe the biosynthesis of purine nucleotides.

Short Notes **(7x5=35)**

3. Discuss about urea cycle and its disorders.
4. List the various metabolic disorders of phenyl alanine. Explain Albinism.
5. Explain briefly the structure of RNA. Enumerate its functions.
6. Synthesis and significance of melatonin.
7. Explain briefly the utilization of Ketone bodies.
8. Summarize the process of breakdown of Heme.
9. Explain IUB classification of enzyme.

Answer Briefly **(10x2=20)**

10. Free energy.
11. Oxidative phosphorylation.
12. Jaundice.
13. Inhibitors of protein synthesis.
14. Biochemical functions of coenzymes.
15. Decarboxylation reaction of amino acid metabolism.
16. Glycogen storage diseases.
17. Hormonal regulation of blood glucose level.
18. Significance of ATP.
19. Exergonic reaction.

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QP Code: 224006 **Reg. No…….**

Second Semester B. Pharm Degree Regular/Supplementary Examinations June 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 **(2x10=20)**

1. Explain in detail about etiology, pathogenesis and pathophysiology of cancer.
2. Write the pathophysiology, signs, symptoms and etiology of Congestive Heart Failure

Short Notes **(7x5=35)**

3. Differentiate between acute and chronic renal failure
4. Pathophysiology of meningitis
5. Classification and Pathogenesis of epilepsy
6. Write in brief about disorders of sex hormones
7. Clinical manifestation and pathophysiology of chronic obstructive airway disease
8. Mediators of Inflammation
9. Adaptive changes of Cellular injury

Answer Briefly **(10x2=20)**

10. Define Homeostasis
11. Causative organism and mode of transmission of Tuberculosis
12. Risk factors for Stroke
13. Megaloblastic anemia
14. Write the causative organism for AIDS & Leprosy
15. Define Rheumatoid Arthritis
16. Atherosclerosis
17. Etiology of Parkinsons Disease
18. Signs and symptoms of peptic ulcer
19. Mode of transmission and causative organism for typhoid

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