

QP Code: 221006

Reg. No.....

**Second Semester B. Pharm Degree Regular/Supplementary
Examinations February 2023**

**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. With a neat labeled diagram explain the section of the brain and add a note on functions of cerebral cortex.
2. Briefly explain the digestion and absorption of nutrients in GIT.

Short Notes

(7x5=35)

3. Anatomy of lungs.
4. Lung volumes and capacity.
5. Role of Renin angiotensin system in kidney.
6. Structure and functions of adrenal gland.
7. Physiology of Menstruation.
8. Structure and functions of mRNA.
9. BMR.

Answer Briefly

(10x2=20)

10. Composition of Cerebro Spinal Fluid (CSF).
11. Synapse.
12. Name the salivary glands.
13. Pancreas
14. Define Neurotransmitters.
15. Mention the walls of the uterus.
16. Functions of Thyroxine.
17. List out the sex hormones.
18. Down Syndrome or Down's Syndrome.
19. Neuron

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**Second Semester B. Pharm Degree Regular/Supplementary
Examinations February 2023
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. Write the mechanism, kinetics, stereochemistry and reactivity of SN_1 reaction.
2. Explain Markownikoff's orientations with suitable examples.

Short Notes

(7x5=35)

3. Write the structure and uses of dichloromethane, iodoform, ethylchloride, chloroform and tetrachloroethylene.
4. Write any two methods of preparation and reactions of carboxylic acids.
5. Explain structural isomerism along with its examples.
6. Crossed aldol condensation.
7. Write any three methods of preparation of alcohols.
8. Write the general qualitative tests of aldehydes with reaction.
9. Explain the stability of conjugated dienes.

Answer Briefly

(10x2=20)

10. Define Saytzeff's rule.
11. Write the uses of acetic acid and oxalic acid.
12. Draw the structure of acetyl salicylic acid and amphetamine.
13. What is electromeric effect.
14. Construct the structure for 1-bromopentene and 3-chlorobutane.
15. Write any two qualitative tests for amides.
16. Define SP_3 hybridization.
17. Write about E_1 Vs E_2 reaction.
18. Briefly write a note on halogenation of alkanes.
19. Perkin condensation reaction.

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**Second Semester B. Pharm Degree Regular/Supplementary
Examinations February 2023
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. Define enzyme and discuss the various types of enzyme inhibition with suitable examples.
2. Describe the structure of DNA and their functions

Short Notes

(7x5=35)

3. Michaelis plot
4. HMP shunt and its significance
5. Catabolism of tyrosine
6. De novo synthesis of palmitic acid
7. Biological significances of cyclic AMP
8. Classification of lipids with example
9. Synthesis of melatonin

Answer Briefly

(10x2=20)

10. What are essential amino acids. Give two examples
11. How insulin reduces blood glucose level.
12. RNA synthesis.
13. What is Glucose-6-phosphate dehydrogenase deficiency.
14. Write a note on hyperbilirubinemia
15. What is transamination.
16. Define catabolism.
17. What is alkaptonuria.
18. Oxidative phosphorylation.
19. What are monosaccharides. Classify them based on functional group present in it with suitable example.

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**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. Define cell injury. Describe in detail about various cellular adaptations and causes of cell injury. Add a note on the pathogenesis of hypoxic cell injury.
2. Define and classify diabetes mellitus. Discuss the symptoms, pathophysiology and complications of diabetes mellitus.

Short Notes

(7x5=35)

3. Reversible cell injury.
4. Mediators of inflammation.
5. Differentiate acute and chronic renal failure.
6. Pathophysiology of hepatitis A and B.
7. Tuberculosis
8. Explain the pathophysiology of peptic ulcer.
9. Discuss the causes, mode of spread and pathogenesis of leprosy.

Answer Briefly

(10x2=20)

10. Define homeostasis.
11. The signs and symptoms of schizophrenia
12. Give the symptoms for urinary tract infection.
13. What is primary gout
14. Complications of asthma
15. The symptoms of meningitis
16. Risk factors for chronic renal failure
17. Pathophysiology of ulcerative colitis.
18. What is epilepsy. Mention any two causes epilepsy.
19. Causative organisms of syphilis and gonorrhoea
