

**CORRECTION / NO-CORRECTION FILE**

**QPCODE: 221006**

**Dated: 21-10-2025**

**Question No.13**

**Modified as "Chromosomes."**

**Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.**

**(Sd/-)**

**CONTROLLER OF EXAMINATIONS**

QP Code: 221006

Reg. No.....

**Second Semester B. Pharm Degree Regular/Supplementary  
Examinations October 2025**

**Human Anatomy and Physiology II  
(2017 and 2024 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 anatomy of lungs. Discuss in detail mechanisms of respiration
2. Enumerate in detail the process of digestion

**Short Notes**

(7x5=35)

3. Action potential
4. Cerebellum
5. Small intestine
6. Functions of pancreas
7. Define and classify hormones
8. Uterus
9. Role of kidneys in acid base balance

**Answer Briefly**

(10x2=20)

10. Meninges
11. Neuroglia
12. Tidal volume
13. Chromosomal aberrations
14. Pharynx
15. Peristaltic movements
16. Creatinine phosphate
17. Diaphragm
18. Anterior pituitary gland
19. Epididymis

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QP Code: 222006

Reg. No.....

**Second Semester B. Pharm Degree Regular/Supplementary  
Examinations October 2025  
Pharmaceutical Organic Chemistry I  
(2017 and 2024 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. Describe the kinetics, order of reactivity of alkyl halides and stereochemistry in SN<sub>1</sub> reaction. Add a note on stability of carbocations
2. Elaborate Cannizzaro and crossed Cannizzaro reactions with suitable examples.

**Short Notes**

(7x5=35)

3. Write the structure and uses of paraldehyde, dichloromethane, chloral hydrate, chlorobutanol and acetyl salicylic acid.
4. Explain the acidity of carboxylic acids and the effect of substituents on it.
5. Explain the qualitative tests for alcohols.
6. Classify organic compounds. Give the IUPAC nomenclature rules for carbonyl compounds.
7. Explain structural isomerism with suitable examples
8. Define electromeric effect. Outline the types of electromeric effect with examples.
9. With an example, explain the mechanism of Perkin condensation.

**Answer Briefly**

(10x2=20)

10. Any two reactions of aliphatic amines.
11. Write the structure and uses of ethyl alcohol.
12. Any two qualitative tests for ketones.
13. Give the chemical structure and uses of benzyl benzoate and cinnamaldehyde.
14. Mention any two conjugated diene with its structure and IUPAC nomenclature.
15. Define aldol condensation.
16. Write any two qualitative chemical tests for amines.
17. Write the factors affecting E<sub>1</sub> reactions.
18. Any one method of preparation of alkene.
19. Give the structure of hexamine and vanillin.

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QP Code: 223006

Reg. No.....

**Second Semester B. Pharm Degree Regular/Supplementary  
Examinations October 2025**

**Biochemistry  
(2017 and 2024 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 the steps involved in the De novo synthesis of palmitic acid.
2. Discuss semi-conservative model of DNA replication.

**Short Notes**

**(7x5=35)**

3. Hexose monophosphate shunt and its significance.
4. Define and classify energy rich compounds with examples.
5. Explain various mechanisms of enzyme regulations.
6. Define coenzyme and mention any three coenzymes and their biochemical functions.
7. Explain the catabolism of glycogen.
8. Urea cycle and its significance.
9. Classification and functions of proteins.

**Answer Briefly**

**(10x2=20)**

10. What is the significance of Line Weaver Burke's plot.
11. Transamination.
12. What are disaccharides. Give two examples.
13. Hyperbilirubinemia.
14. Define substrate-level phosphorylation with example.
15. Essential amino acids.
16. Inhibitors of protein synthesis.
17. Write the functions of cyclic adenosine monophosphate (cAMP).
18. Phenylketonuria.
19. Significance of TCA cycle.

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