

<b>CORRECTION / NO-CORRECTION FILE</b>
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**QPCODE: 521006**

**Dated: 29-09-2025**

**Question No.18**

**Modified as "Give structure and uses of any one natural drug used in congestive heart failure".**

**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: 521006

Reg. No.....

**Fifth Semester B. Pharm Degree Supplementary Examinations  
September 2025  
Medicinal Chemistry 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 diagrams wherever necessary*

**Essays**

**(2x10=20)**

1. Classify H<sub>1</sub> antihistamines giving one structure from each class. Discuss the chemistry of H<sub>1</sub> antihistamines. Outline the synthesis of diphenhydramine
2. Classify steroid hormones giving one structure from each class and explain the stereochemistry of steroids and outline the method of synthesis of warfarin

**Short Notes**

**(7x5=35)**

3. Classify antimetabolites giving the structure of one agent from each class and discuss the mechanism of action of Doxorubicin
4. Classify antihypertensives giving the structure of one agent from each class and explain the mechanism of action of ACE inhibitors
5. Chemistry, synthesis and uses of Disopyramide
6. Structural features of "statins" responsible for inhibiting HMG-CoA reductase enzyme. Give the structure of any one statin and mention its use.
7. Chemistry of 1, 4-dihydropyridines used as calcium channel blockers
8. Classify oral hypoglycemic agents giving one structure from each class and outline the synthesis of tolbutamide
9. Discuss the chemistry of thiazide diuretics and outline the synthesis of chlorthiazide

**Answer Briefly**

**(10x2=20)**

10. Why hydrochlorthiazide is more potent diuretic than chlorthiazide
11. Outline the synthesis of furosemide
12. Outline the method of synthesis of Procaine
13. Why second generation H<sub>1</sub> antihistamine cetirizine is less sedative than first generation H<sub>1</sub> antihistamines
14. What are osmotic diuretics. Give the structure of any one
15. Explain how nitrovasodilators produce vasodilation
16. Give the structure of any two steroid drug used as oral contraceptives
17. Give the structure and uses of two endothelial receptor antagonist
18. Give structure and uses of any one natural congestive heart failure agent
19. Give the structure and uses of Methimazole

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<b>CORRECTION / NO-CORRECTION FILE</b>
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**QPCODE: 522006**

**Dated: 03-10-2025**

**Question No.2**

**Modified as "Discuss in detail the various tablet coating defects. Add a note on the role played by the cams in multiple station tablet compression machine."**

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**CONTROLLER OF EXAMINATIONS**

QP Code: 522006

Reg. No.....

**Fifth Semester B. Pharm Degree Supplementary Examinations  
September 2025  
Formulative Pharmacy  
(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. Describe the various parts of an aerosol valve system. Write a note on stability studies of Pharmaceutical Aerosols.
2. Explain the role played by the cams in the multiple station tablet compression machine. Discuss the tablet coating defects.

**Short Notes**

**(7x5=35)**

3. What is an ophthalmic dosage form. Enlist the various factors affecting corneal absorption.
4. Define solubility profile. Explain three key factors which affect solubility.
5. Write a short note on Glass as packing material in formulation industry.
6. Mention four ideal qualities of a good shampoo. Add a note on principal surfactants.
7. Describe the process of selecting the capsule size for a formulation to be filled in hard gelatin capsule.
8. Explain the production facilities and controls for parenteral products.
9. Explain the formulation of Eye drops.

**Answer Briefly**

**(10x2=20)**

10. Enlist ideal characteristics of tablets.
11. What is the importance of isotonicity.
12. Define eye lotions.
13. Write the formula for cold cream.
14. Define lyophilisation.
15. What is the importance of the friability test for tablets.
16. Racemisation.
17. Infusion fluids.
18. Propellants for Aerosols.
19. Hair Dyes.

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QP Code: 523006

Reg. No.....

**Fifth Semester B. Pharm Degree Supplementary Examinations  
September 2025  
Pharmacology 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 diagrams wherever necessary*

**Essays**

**(2x10=20)**

1. Classify anti-hypertensive drugs with suitable examples. Write the mechanism, pharmacological actions and side effects of enalapril
2. Explain in detail about principle, types and applications of bioassay

**Short Notes**

**(7x5=35)**

3. Write the pharmacological actions of histamine
4. Add a note on anabolic steroids
5. Classify anti-arrhythmic agents with examples
6. Mechanism of action and uses of allopurinol
7. Signs, management and treatment of paracetamol poisoning
8. Discuss about oral contraceptives
9. Brief about Substance P

**Answer Briefly**

**(10x2=20)**

10. Any two examples for fibrinolytics
11. Define cardiac glycosides and give one example
12. Name the types of angina
13. What are diuretics. Give one example
14. Any two uses of corticosteroids
15. Two examples for uterine stimulants
16. Name two anti-rheumatoid arthritis drugs
17. Functions of glucagon
18. Uses of Aspirin
19. Explain the functions of parathormone

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**CORRECTION / NO-CORRECTION FILE**

**QPCODE: 523006**

**Dated: 06-10-2025**

**Question No.7**

**Corrected as "Signs, management and treatment of paracetamol poisoning."**

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**CONTROLLER OF EXAMINATIONS**

QP Code: 524006

Reg. No.....

**Fifth Semester B. Pharm Degree Supplementary Examinations  
September 2025  
Pharmacognosy and Phytochemistry 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. Describe about ultra-violet, NMR and Mass spectroscopical methods.
2. Explain sources, industrial production, estimation and utilization of digoxin and diosgenin.

**Short Notes**

**(7x5=35)**

3. Explain biogenesis of secondary metabolites by acetate pathway.
4. Define tannins. Write the general properties, and classification of tannins with examples.
5. Describe super critical fluid extraction method.
6. Describe the microscopy of Liquorice.
7. Describe the principle and application of thin layer chromatography.
8. Describe the cultivation of Opium.
9. Define and classify volatile oil with examples. Describe the general method of extraction of volatile oil.

**Answer Briefly**

**(10x2=20)**

10. Write the biological source, chemical constituents, and uses of Ephedra.
11. Morphology of Fennel.
12. Write the chemical constituents of Tea and Senna.
13. Mention applications of paper chromatography.
14. Write the biological source, chemical constituents, and uses of Colophony.
15. Write the biological source, chemical constituents, and uses of Bitter almond.
16. What is Modified Borntrager's test. Give its significance
17. Difference between HPLC and HPTLC.
18. Write the biological source, chemical constituents, and uses of Gentian
19. Autoradiography.

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<b>CORRECTION / NO-CORRECTION FILE</b>
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**QPCODE: 524006**

**Dated: 08-10-2025**

**Question No. 1**

**Modified as "Describe the various analytical methods used in Phytochemistry".**

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