



Shree Gurudatta Shikshan Sansthas Loknete Dr. J. D. Pawar College of Pharmacy Manur Tal. Kalwan Dist Nashik Maharashtra

Bachelor of Pharmacy [2025-26]

Second Sessional Exam

Subject : [BP501T] Medicinal Chemistry II TH - Theory Faculty : Majid Khan

Year : Third Year - Sem - 5 Marks : 30 Date : 4 November, 2025 Duration : 90 Minutes

All the questions are compulsory

Figures to the right indicate full marks.

Question	Marks	Course Outcome	Blooms Level
Q.1 Attempt <u>any five</u>.			10
1) Write mechanism of action, medicinal applications and synthesis of <i>propranolol</i> .	2.00	CO BP501T.5	Create,Apply,Understand
2) Write mechanism of action, medicinal applications and synthesis of <i>procaine</i> .	2.00	CO BP501T.5	Create,Apply,Understand
3) Classify progesterone with example.	2.00	CO BP501T.4	Understand
4) Write biosynthesis reaction of testosterone.	2.00	CO BP501T.4,	Analyze
5) Classify antidiabetic with suitable example.	2.00	CO BP501T.5,	Understand
6) Define local anesthetic. Classify local anesthetic agents with examples	2.00	CO BP501T.5	Understand
7) Draw structure and uses of Sildenafil and Tadalafil.	2.00	CO BP501T.4	Apply
Q.2 Attempt <u>any one</u> of the following			10
1) What are estrogens? Classify them with example. Give SAR of estrogens. Give therapeutic uses of estrogens.	10.00	CO BP501T.4	Analyze,Apply
2) Explain SAR, and mechanism of action of sulfonylurea antidiabetic agents. Add note on SGLT inhibitors.	10.00	CO BP501T.5	Evaluate,Understand
Q.3. Write a note on <u>any two</u> of the following.			10
1) Write a note on thyroid and antithyroid drugs.	5.00	CO BP501T.4	Apply,Understand
2) Write a note on SAR and MOA of local anesthetics.	5.00	CO BP501T.5	Analyze
3) Write MOA and uses of coagulant and anticoagulant with examples.	5.00	CO BP501T.3	Apply



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SECOND SESSIONAL THEORY EXAMINATION 2025-26 (2019 Pattern)

Subject : [BP502T] Industrial Pharmacy-I TH - Theory **Faculty :** Dipika Patil

Year : Third Year - Sem - 5 **Marks :** 30 **Date :** 5 November, 2025 **Duration :** 90 Minutes

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Draw neat and labeled diagrams wherever necessary.

Question	Marks	Course Outcome	Blooms Level
Q.1 Attempt any five of the following (05 × 02 = 10 Marks)			
1. Write About valve assembly	2	BP502T.CO5	Understand
2. Preparation of Cold cream	2	BP502T.CO4	Apply, Understand, Remember
3. Give the Importance of isotonicity.	2	BP502T.CO4	Evaluate, Remember
4. Explain the LAL test for parenterals.	2	BP502T.CO4	Create, Evaluate, Analyze, Understand
5. Discuss sunscreen and SPF.	2	BP502T.CO5	Understand
6. Formulation of eye drops	2	BP502T.CO4	Apply, Understand
7. Discuss glass as a packaging material in parenterals.	2	BP502T.CO5, BP502T.CO4	Understand

Q.2 Attempt any one of the following (01 × 10 = 10 Marks)

1. Define parenterals. Give formulation considerations of SVP and explain official quality control tests of parenterals in detail.	10	BP502T.CO4	Create, Evaluate, Analyze, Understand, Remember
2. Define aerosols. Discuss Propellants with ideal properties and containers used in pharmaceutical aerosols.	10	BP502T.CO5	Create, Apply, Understand, Remember

Q.3 Attempt any two of the following (02 × 05 = 10 Marks)

1. Describe in detail the evaluation of ophthalmic preparations.	5	BP502T.CO4	Evaluate, Understand
2. Explain the pressure filling technique used for aerosols.	5	BP502T.CO5	Evaluate, Apply, Understand
3. What is Pelletization? Describe the process of extrusion Pelletization	5	BP502T.CO3	Understand, Remember



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Second Sessional Exam Nov 2025

Subject : [BP503T] Pharmacology II TH - Theory **Faculty :** Durgesh Gautam

Year : Third Year - Sem - 5 **Marks :** 30 **Date :** 6 November, 2025 **Duration :** 90 Minutes

- Figures to the right indicate full marks.
- Draw neat diagrams wherever necessary.
- All questions are compulsory.

Question	Marks	Course Outcome	Blooms Level
Q. 1) Answer the following question (Answer 05 out of 07)			
a. Write the MOA of xanthine derivative drugs used in gout.	2.00	COBP503T.3	Apply, Understand
b. Classify bioassays and give their applications.	2.00	COBP503T.5	Apply, Understand
c. Define autacoids and outline the synthesis of PGs, LTs, and TXs.	2.00	COBP503T.3	Understand, Remember
d. Classify oral contraceptives and justify how OCs are effective in avoiding pregnancy.	2.00	COBP503T.5	Apply, Understand
e. Write the acronym of DOSE and outline the biosynthesis of serotonin.	2.00	COBP503T.3	Understand, Remember
f. Classify the drug used for migraine.	2.00	COBP503T.3	Analyze, Apply, Understand
g. Outline the MOA of insulin.	2.00	COBP503T.4	Understand, Remember
Q. 2) Answer the following question (Answer 01 out of 02)			
a. Classify analgesics and anti-inflammatory drugs & write the pharmacology of a selective COX-II inhibitor drug.	10.00	COBP503T.3	Evaluate, Analyze
b. Classify antithyroid agents, outline the biosynthesis of thyroid hormone, MOA of methimazole with ADR.	10.00	COBP503T.4	Analyze, Understand
Q. 3) Answer the following question (Answer 02 out of 03)			
a. Classify, write the mechanism of action, ADR, and therapeutic uses of triptans.	5.00	COBP503T.3	Analyze, Understand
b. Classify antihistaminics, and give an outline of the MOA of antihistaminic drugs with ADR.	5.00	COBP503T.3	Analyze, Understand
c. Classify oral hypoglycemics, and write the MOA of sulfonylurea drugs, ADR, and interactions.	5.00	COBP503T.4	Analyze, Understand



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Bachelor of Pharmacy [2025-26]

Second Sessional Examination Oct-2025-26

Subject : Pharmacognosy and Phytochemistry II TH - Theory **Faculty :** Bharati Sonawane

Year : Third Year - Sem - 5 **Marks :** 30 **Date :** 7 November, 2025 **Duration :** 90 Minutes

- Figures to the right indicate full marks.
- Draw neat diagram wherever necessary.
- Assume suitable data if necessary, stating it clearly.

Sr.No.	Question	Marks
1	Q.1 Attempt any five from the following.	
1.1	Explain the method of isolation of Artemisin.	2.00
1.2	Explain the method of isolation and identification of Atropine.	2.00
1.3	Elaborate the term industrial production and utilization of Digoxin.	2.00
1.4	Elaborate the term industrial production and utilization of Forskolin.	2.00
1.5	Elaborate the term industrial production and utilization of Taxol.	2.00
1.6	Explain the percolation method of extraction with suitable diagram.	2.00
1.7	Explain the isolation and analysis of Curcumin.	2.00
2	Q.2 Attempt any one from the following.	
2.1	Explain in detail supercritical fluid extraction.	10.00
2.2	Elaborate in detail microwave assisted extraction with applications of chromatographic technique in identification of crude drug.	10.00
3	Q.3 Attempt any two from the following.	
3.1	Explain the isolation, identification and analysis of Glycyrrhetic acid.	5.00
3.2	Explain the isolation, identification and analysis of Reserpine.	5.00
3.3	Explain in detail non chromatographic separation techniques.	5.00



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Second Sessional Theory Examination

Subject : [BP505T] Pharmaceutical Jurisprudence - Theory **Faculty :** Santosh Surana
Year : Third Year - Sem - 5 **Marks :** 30 **Date :** 8 November, 2025 **Duration :** 90 Minutes

All questions are Compulsory.

Figures to the right indicate full marks.

Question	Marks	Course Outcome	Blooms Level
Q.1 Attempt any <u>five</u> of the following.			
a) Define Narcotic and Psychotropics Substances as per NDPS Act 1985.	2.00	CO1,CO2	Remember
b) Define Ceiling price and MRP as per DPCO Act 2013.	2.00	CO2,CO3	Remember
c) Write about Hathi Committee.	2.00	CO3	Understand
d) Write note on 'Pharmacist in relation to his Job'.	2.00	CO1	Understand
e) Give objectives of Prevention of Cruelty to animal act 1960.	2.00	CO5	Create
f) State salient features of RTI Act 2005.	2.00	CO6	Remember
g) Write recommendations of Drug Enquiry Committee.	2.00	CO4	Evaluate
Q. 2 Attempt any <u>one</u> of the following.			
a) Write Objectives, Offences and Penalties as per Narcotic and Psychotropic Substances Act 1985.	10.00	CO1,CO2	
b) Describe CPCSEA guidelines with respect to animal experiments, transfer and acquisition of animals with breeding and stocking of animals.	10.00		Analyze,Understand
Q. 3 Attempt any <u>two</u> of the following.			
a) Explain 'Opium poppy cultivation' as per NDPS Act 1985.	5.00	CO4,CO5	Evaluate,Understand
b) Write a note on Intellectual Property Right (IPR).	5.00	CO3,CO6	Remember
c) Write the classes of advertisement prohibited under Magic and Remedies Act 1954.	5.00	CO1,CO3	