

2019 Pattern
SEM-V

Total No. of Questions : 3]

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[6110]-498

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BP501T : Medicinal Chemistry-II
(2019 Pattern) (Semester-V) (Theory)

Time : 3 Hours]

[Max. Marks : 75

Instructions to the candidates:

D. Pharma University Exam Papers | B. Pharma University Exam Papers | GPAT,
NIPER, Pharmacist, Drug Inspector Exam Papers | Previous Year Exam Papers |
Latest Pharma Job | Pharma Colleges | Pharma News | Pharma Quiz
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- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.

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[5×3=15]

Q1) Attempt the following (Any 5).

- a) Write a note on loop diuretics.
- b) Discuss mechanism of action and medicinal applications of losartan.
- c) Give two examples of thyroid and antithyroid drugs.
- d) Explain mechanism of action and medicinal applications of verapamil.
- e) Draw structure and write medicinal applications of Amiodarone.
- f) Explain in brief anti-coagulants.
- g) Write a note on drugs for erectile dysfunction.

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NIPER, Pharmacist, Drug Inspector Exam Papers | Previous Year Exam Papers |
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Q2) Attempt the following (Any 2).

[2×10=20]

- a) Define autocoids. Write biosynthesis, nomenclature and medicinal applications of prostaglandins.
- b) What is Hypertension? Classify antihypertensive agents with suitable examples. Give SAR and MOA of Calcium Channel blockers.
- c) Classify antidiabetic agents with suitable examples. Comment on sulphonylureas. Draw synthetic route for Tolbutamide.
- d) Classify antihistaminic agents with examples. Describe second generation H1 Antagonists. Write SAR for H1 Antagonists.

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Q3) Attempt the followings (Any 8).

[8×5]

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- a) Write synthesis of chlorthiazide and Nifedipine.
- b) Write mechanism of action and medicinal applications of Ranitidine omeprazole. <https://pharmacyindia.co.in/>
- c) Discuss in detail HMG Co-A reductase inhibitors
- d) Draw structure write mechanism of action and medicinal application Furosemide. <https://pharmacyindia.co.in/>
- e) Draw structure write mechanism of action and medicinal application Promethazine.
- f) Explain chemistry, nomenclature and stereochemistry of steroids.
- g) Classify estrogens with suitable examples. Add SAR of estrogens.
- h) Classify local anesthetics with suitable examples.
- i) Discuss antianginal agents with suitable examples.
- j) Explain in brief Carbonic anhydrase inhibitors.

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Third Year B. Pharmacy
BP502T : INDUSTRIAL PHARMACY-I
(2019 Pattern) (Semester-V)

[Max. Marks : 75

Time : 3 Hours]

Instructions to the candidates:

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- 1) All questions are compulsory.
- 2) Neat, labeled diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.

Q1) Long Answers (Any 2)

[2×10=20]

- a) Define parenterals. Give formulation considerations of SVP and explain official quality control tests of parenterals in detail. <https://pharmacyindia.co.in/>
- b) Give the objectives of tablet coating. Discuss excipients used in film coating. Add a note on evaluation of coated tablets.
- c) Define aerosols. Discuss in detail the propellants with ideal properties, and containers used in pharmaceutical aerosols.
- d) Define Capsules. Explain the manufacturing of empty gelatin capsules. Give quality control tests of gelatin.

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Q2) Short Answers (Any 8)

[8×5=40]

- a) Give an account of particulate matter monitoring for parenterals.
- b) Explain important physicochemical properties of preformulation.
- c) What is pressure filling technique for aerosols? Give its advantages & disadvantages. <https://pharmacyindia.co.in/>
- d) Describe metal particles and leakage test for ophthalmic ointment.
- e) Explain Pyrogen test for parenterals.
- f) Describe environmental control zone groupings for parenterals as per cGMP and Gazette of India.
- g) Describe water attack test for parenteral glass containers.
- h) Discuss formulation aspects of vanishing cream.
- i) Describe in brief about evaluation of ophthalmic preparations.
- j) Write note on evaluation parameters for aerosols.

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Q3) Short Answers (Any 5)

- Give significance of isotonicity in ophthalmic.
- Which propellant is good among liquefied gases and compressed gas.
- Give the advantages and disadvantages of LAL test.
- What is sugar coating? <https://pharmacyindia.co.in/>
- Describe about Actuator used in pharmaceutical aerosol.
- Define Capsule. Describe in brief about capsule size.

[5×3=

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SEM - V

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Third Year B. Pharmacy

BP503T - Pharmacology - II

(2019 Pattern) (Semester - V)

Time : 3 Hours]

[Max. Marks : 75

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Neat labelled diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.

Q1) Attempt any five of the following.

[15]

- a) Write the advantages of oral hypoglycaemic agent.
- b) Define and classify autocoids.
- c) Comment the role of HMG-CoA reductase inhibitors in the treatment of hyperlipidaemia.
- d) Write biosynthesis of prostaglandins.
- e) Define and classify tocolytics.
- f) What are the adverse effects of NSAIDs?
- g) Enlist mechanism of actions of anti-gout drug.

Q2) Attempt any two of the following.

[20]

- a) Describe biosynthesis, storage and release of Insulin-Add note on insulin preparations.
- b) Classify antihypertensive drugs. Give pharmacological account of ACE inhibitors.
- c) Discuss biosynthesis, Mechanism of action, Pharmacological action and therapeutic uses. of progesterone.
- d) Classify antihistamines. Describe pharmacological actions of antihistamines.

P.T.O.

Q3) Attempt any eight of the following

- a) Describe biosynthesis, storage, release and action of thyroid hormone.
- b) Justify use of calcium channel blockers for any two cardiovascular diseases.
- c) Add note on bioassay of Digitalis.
- d) Describe physiological effect of glucagon.
- e) "Sodium channel blockers are used for treatment of cardiac arrhythmias. Write true or false and justify.
- f) Write a note on potassium - sparing diuretics.
- g) Explain the calcium homeostasis.
- h) Write a note on plasma volume expanders?
- i) Define and classify the drug acting on uterus.
- j) Explain pharmacological actions of nitrates?

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BP504T : PHARMACOGNOSY AND PHYTOCHEMISTRY-II
(2019 Pattern) (Semester-V) (Theory)

Time : 3 Hours

[Max. Marks : 75]

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Neat labeled diagrams must be drawn whenever necessary.

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Q1) Objective type questions. (any 5 out of 7)

[5×3=15]

- a) Define secondary plant metabolite with suitable examples.
- b) Give botanical source and Chemical Constituent of Tea.
- c) Give the source and uses of eugenol containing crude drug.
- d) Write identification test for Sennoside.
- e) Give chemical constituents and uses for Liquorice.
- f) Utilization of Vinca alkaloids.
- g) Write the applications of Microwave assisted extraction.

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Q2) Answer the following (any 2 out of 4)

[2×10=20]

- a) Define Alkaloids. Explain Biological source, classification, chemistry and medicinal uses of Vinca and Rauwolfia.
- b) Explain in detail about super critical fluid extraction and solid phase extraction.
- c) Explain industrial production and estimation of Sennosides and vinblastine.
- d) What are cardiac glycosides? Give the Pharmacognosy of Digitalis in detail.

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Q3) Answer the following (any 8 out of 10)

[8×5]

- a) Write a note on radio isotopes and their applications in biogenetic studies.
- b) Give the biological source, Chemical constituents and uses of any volatile oil drugs.
- c) Write the isolation and estimation of Glycyrrhetic acid.
- d) Explain the industrial production and uses of Artemisinin.
- e) Explain the role of column chromatography in isolation and purification of phytoconstituents.
- f) Write the method of production and identification for Atropine.
- g) Write the isolation and identification of Curcumin.
- h) Give the chemical constituents and therapeutic uses of Mentha and Fennel.
- i) Write about the role of radioactive isotopes in the investigation of biogenetic studies.
- j) Explain with a neat labeled microscopic diagram of Fennel.

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Third Year B.Pharmacy
BP 505 T : PHARMACEUTICAL JURISPRUDENCE
(2019 Pattern) (Semester - V)

Time : 3 Hours]

[Max. Marks : 75

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.

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SECTION - I

Q1) Answer all the questions (Objectives) (Answer 5 out of 7) [5×3=15]

- a) Objectives of CPCSEA
- b) What are Cannabis (Hemp), Coca leaf, Poppy Straw
- c) What are schedule G and H
- d) Explain the formula to calculate the retail price of formulation as per DPCO. <https://pharmacyindia.co.in/>
- e) Differentiate between state Pharmacy Council & Joint state Pharmacy council.
- f) What are Geographical indications?
- g) Write the forms used for licence for retail drugs, restricted licence and wholesale?

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Q2) Long Answers (Any 2 out of 4) [2×10=20]

- a) Give the constitution, functions and working of Pharmacy Council of India according to Pharmacy Act, 1948.
- b) Discuss constitution and functions of DTAB, CDL and DCC under Drugs & Cosmetics Act 1940. <https://pharmacyindia.co.in/>
- c) What are the objectives of DPCO, 1995? Explain in detail prices of bulk drugs and retail price of formulation.
- d) Discuss in detail the objectives and salient features of Medical Termination of Pregnancy Act, 1971 and Rules 1975.

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[8×5=40]

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Q3) Short Answers (Any 8 out of 10)

- Animal Welfare Board of India, Offences and penalties under prevention of cruelty to animals act, 1950.
- Explain power of central Government to permit, control and regulate operations under Narcotics & Psychotropic substances act.
- Explain Bonded factory.
- Schedule M
- Qualification and duties of Government Analyst under D & C act.
- Write and explain the classification of medicinal and toilet preparations containing alcohol.
- What is the objective of Drugs & magic remedies act? Write classes of prohibited advertisement.
- Pharmaceutical code of ethics in relation to Job and Trade.
- Write Short Note on Loan License.
- Hathi Committee and Mudaliar Committee.

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