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SEAT No. :

P-877

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[6019]-5011

T.Y. B. Pharmacy

BP-501 T : Medicinal Chemistry - II
(2019 Pattern) (Semester - V)

Time : 3 Hours]

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[Max. Marks : 75

Instructions to the candidates:

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

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Q1) Attempt the following (any five) :

[5 × 3 = 15]

- a) Write a note on progesterones. <https://pharmacyindia.co.in/>
- b) Write mechanism of action & medicinal applications of ranitidine.
- c) Write a note on second generation H₁ receptor antagonist.
- d) Give the scheme of synthesis for atenolol.
- e) Write about coagulant agents. <https://pharmacyindia.co.in/>
- f) Discuss thyroid & anti thyroid drugs.

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Q2) Attempt the following (any two) :

[2 × 10 = 20]

- a) Classify anti-arrhythmic agents with suitable examples. Explain chemistry & MoA of any one class. <https://pharmacyindia.co.in/>
- b) Define diuretics, classify diuretics with examples & write mechanism of action & medicinal applications of drugs belonging to class thiazides.
- c) Classify oral hypoglycemic agents with suitable examples. Comment in detail on sulphonylureas. Draw synthetic route for tolbutamide.
- d) Write biosynthesis of histamine. Classify antihistaminic agents with examples. Write SAR for H₁ antagonists.

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Q3) Attempt the following (Any eight) :

[8 × 5 = 40]

- a) Discuss in detail antihyperlipidemic agents. <https://pharmacyindia.co.in/>
- b) Write mechanism of action & medicinal applications of nifedipine & verapamil. <https://pharmacyindia.co.in/>
- c) Write mechanism of action & medicinal applications of bumetanide & spiranolactone.
- d) Define Autocoids. Explain biosynthesis & physiological role of prostaglandins. <https://pharmacyindia.co.in/>
- e) Draw structure, write mechanism of action & medicinal applications of diphenhydramine.
- f) What are sex hormones? Classify estrogens with suitable examples.
- g) Explain in detail proton pump inhibitors.
- h) Discuss in brief ACE inhibitors. <https://pharmacyindia.co.in/>
- i) Classify antianginal agents with suitable examples.
- j) Classify local anaesthetics with suitable examples.



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T.Y. B. Pharmacy

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BP 502-T : INDUSTRIAL PHARMACY - I

(2019 Pattern) (Semester - V)

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Time : 3 Hours]

[Max. Marks : 75

Instructions to the candidates :

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

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Q1) Attempt the following (Any 2) :

[20]

- a) Define tablets. Discuss IPQC tests of tablets.
- b) Discuss defects in tablet with its remedies.
- c) Give advantages of parenteral. Discuss in detail official pharmacopelal evaluation parameter of paranterals. <https://pharmacyindia.co.in/>
- d) Give complete account of environmental control zones in slerle parenteral manufacturing facilities. Add note on HVAC system.

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Q2) Answer the following (Any 8) :

[40]

- a) Discuss filling of hard gelatin capsule by volumetric principle and explain uniformity of weight test.
- b) Give an account of various materials used in film coating of tablets.
- c) Write a note on tooth pastes.
- d) What is entering coating? Discuss in brief about non enteric film forming polymers.
- e) Explain formulation aspects of lipsticks. <https://pharmacyindia.co.in/>
- f) Write a note on sunscreen and SPF.
- g) Explain method of preparation of Eye drops.
- h) Add a note on equipments of manufacture of pellets.
- i) Give an account of various materials used in film coating of tablets.
- j) What is HLB? Its application in formulation of biphasic liquid orals.

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Q3) Write a short note on (Any 5) : [15]

- a) Type A and Type B gelatin. <https://pharmacyindia.co.in/>
- b) Physicochemical properties involved in formulation studies.
- c) Vanishing cream.
- d) Stability of suspension. <https://pharmacyindia.co.in/>
- e) Evaluation of ophthalmic preparations.
- f) Orange peel effect and haziness.
- g) IPQC test for tablets. <https://pharmacyindia.co.in/>

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T.Y. B.Pharmacy
PHARMACOLOGY-II

(2019 Pattern) (Semester-V) (Theory) (BP503T)

Time : 3 Hours]

[Max. Marks : 75

Instructions to the candidates:

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

Q1) Attempt any five of the following

[15]

- a) Define and classify tocolytics. <https://pharmacyindia.co.in/>
- b) Enlist the functions of posterior pituitary hormone.
- c) Define oxytocic agents and give mechanism and uses of oxytocin. <https://pharmacyindia.co.in/>
- d) Comment on role of beta blockers in angina pectoris.
- e) Justify role of digitalis in congestive heart failure.
- f) Define fibrinolytics. Give mechanism of action of streptokinase.
- g) Classify anti-arrhythmic agents. <https://pharmacyindia.co.in/>

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Q2) Attempt any two of the following.

[20]

- a) Discuss biosynthesis, mechanism of action, pharmacological actions and Therapeutics uses of progesterone. <https://pharmacyindia.co.in/>
- b) Write principles and types of the bioassay. Add a note on bioassay of d-tubocurarine. <https://pharmacyindia.co.in/>
- c) Classify antihypertensive drugs. Give pharmacological account of ACE inhibitors. <https://pharmacyindia.co.in/>
- d) Classify diuretics. Explain mechanism of action, adverse effect and therapeutic uses of furosemide.

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Q3) Attempt any eight of the following. <https://pharmacyindia.co.in/> [40]

- a) Classify antithyroid drugs. Explain pharmacological action of any one anti thyroid drug.
- b) Add note on therapeutic effects of corticosteroid.
- c) Add note on SERM. <https://pharmacyindia.co.in/>
- d) Explain the clinical significance of COX-2 inhibitors.
- e) Write the mechanism of action and uses of quinidine.
- f) Discuss pharmacotherapy of rheumatoid arthritis.
- g) Discuss the bioassay of histamine. <https://pharmacyindia.co.in/>
- h) What are the advantages of angiotensin receptors blockers over ACE inhibitors? <https://pharmacyindia.co.in/>
- i) Write a note on calcium channel Blockers.
- j) Explain pharmacological action of Aspirin.

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[6019]-5014

Third Year B. Pharmacy

BP504T : PHARMACOGNOSY AND PHYTOCHEMISTRY - II

(2019 Pattern) (Semester - V)

Time : 3 Hours]

[Max. Marks : 75

Instructions to the candidates:

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

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Q1) Objective type questions (Answer 5 out of 7) :

[5 × 3 = 15]

- a) Explain in brief Competitive feeding.
- b) Write a note on umbelliferous fruits.
- c) Give the source and uses of eugenol containing crude drug.
- d) Identification test for Aloes.
- e) Write Source and uses of Podophyllotoxin.
- f) Write a note on UV and visible spectroscopy.
- 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 Belladonna and Opium.
- b) Explain in detail about super critical fluid extraction and solid phase extraction
- c) Write the Pharmacognostical study of Senna
- d) Explain industrial method of production and estimation of Vincristine and Atropine.

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Q3) Answer the following (Any 8 out of 10) :

[8 × 5 = 40]

- a) Explain Tracer technology and its significance in biogenetic studies
- b) Describe the microscopy of Clove with a neat labelled diagram.
<https://pharmacyindia.co.in/>
- c) Give the Pharmacognosy of Vinca
- d) Write the isolation and identification of Quinine
- e) Explain the industrial production of digoxin. <https://pharmacyindia.co.in/>
- f) Describe HPTLC with its advantages and applications
- g) Give biological source and active constituents of Podophyllum and Vinca. <https://pharmacyindia.co.in/>
- h) Write isolation and analysis of Glycyrrhizin.
- i) Differentiate between Pale Catechu and Black Catechu.
- j) Give biosources, chemical constituents and uses of Coriander and Belladonna.

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T.Y. B. Pharmacy

BP505T : 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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Q1) Answer the questions (Objectives) (Any 5 out of 7) : **[5 × 3 = 15]**

- a) What is copyright? <https://pharmacyindia.co.in/>
- b) What are spurious drugs and adulterated drugs?
- c) What are schedule G and H?
- d) What is cannabis, coca derivative and coca leaf?
- e) Write the composition of committee constituted by central Government to control and supervise the experiments performed on animals.
- f) According to Narcotic Drugs and Psychotropic Substances Act, 1985. What are the functions of Narcotic commissioner?
- g) Write the constitution of pharmacy council of India.

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

- a) Define “Illicit traffic”. Discuss in detail the powers of Central Government to prohibit, control and regulate certain operations under Narcotic Drugs and psychotropic substances Act, 1985.
- b) Write in detail different administrative bodies under Drugs and Cosmetics Act, 1940. <https://pharmacyindia.co.in/>
- c) Write the constitution and composition of the central and state pharmacy councils, also state the registration procedure of pharmacist.
- d) Discuss in detail objectives and salient features of the prevention of cruelty to Animals Act, 1960.

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Q3) Short Answers (Any 8 out of 10) : [8 × 5 = 40]

- a) Retail price of formulations. <https://pharmacyindia.co.in/>
- b) Conditions for license for manufacture of drugs other than schedule X.
- c) Hathi committee and Mudaliar committee.
- d) Code of Pharmaceutical ethics in relation to medical profession and pharmacy profession. <https://pharmacyindia.co.in/>
- e) Write and explain the classification of medicinal and toilet preparations containing alcohol.
- f) Write the circumstances under which the pregnancies may be terminated by Registered Medical Practitioner. <https://pharmacyindia.co.in/>
- g) Write the qualification, duties & responsibilities of Drug inspector.
- h) Criteria for patentable inventions.
- i) Good manufacturing practices for requirements of premises for pharmaceutical products. <https://pharmacyindia.co.in/>
- j) Write the objectives of Medicinal and Toilet Preparation Act, 1955 and rules there under 1976 and explain bonded manufactory.

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