# B. Pharmacy 6<sup>th</sup> Semester Question Paper 2018-2019

PHR-601/1460

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# **Even Semester Examination 2018-19**

# B. PHARMA. (SEMESTER-VI)



[P.T.O.]

# PHARMACEUTICAL BIOTECHNOLOGY

Time	e: 03:0	00 Hours		Max Marks :100						
		mpt All questions								
1.	Answ	wer any <b>four</b> out of five :		(4x5=20)						
	(a)	Discuss Agar diffusion test.								
	(b)	Write note on methods of immobilizat	tion of enzymes.	Designations (18)						
	(c)	Define transcription and translation p	rocess.							
	(d)	Explain humoral or antibody mediated	d immunity.							
	(e)	Write a short note on historical development	opment of antibodies.							
2.	Answe	er any <b>four</b> out of five :		(4x5=20)						
	(a)	Write a note on Antigen & Antibody re	eaction with their appli	ication.						
	(b)	Classify immunity and differentiate between active & passive immunity.								
	(c)	Write a pharmaceutical application of	enzyme immobilizatio	on.						
	(d)	Give pharmaceutical application of P	enicillinase.							
	(e)	Describe in detail about various type with examples.	of reaction cell media	ted by microorganisms						
3.	Answe	er any <b>two</b> out of three :		(2x10=20)						
	(a)	Discuss various types of RNA involve	ed in genetics.							

- (b) Write a note on standardization and storage of BCG vaccine
- (c) Discuss the characteristics of a typical fermentor.
- 4. Attempt any two out of three:

(2x10=20)

- (a) Give an account of DNA replication.
- (b) Discuss in detail about the hypersensitivity reactions.
- (c) Write a note on protoplast fusion.
- 5. Attempt any two out of three:

(2x10=20)

- (a) Discuss complete process of development of hybridoma for monoclonal antibodies.
- (b) Discuss various steps involved in screening of soil for organism producing antibiotics.
- (c) Write a brief note on biotransformation process with special reference to steroid.

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PHR-602

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# **Even Semester Examination 2018-19**

# B. Pharma. (SEMESTER-VI)



# PHARMACEUTICAL TECHNOLOGY-II

Time: 03:00 Hours Max Marks : 100

Attempt any five questions of the following:

[5×20=100]

- Que. 1(a) Define the term "tablet". How can they tablet be classified according to their route of administration?
  - (b) What is wet granule or moist granulation process? Describe this which the help of flow chart. What are its various advantage and disadvantage?
- Que.2 (a) What are the various manufacturing defects in tablet? How can such defects be removed?
  - (b) Why the tablet is coated? Name the various type of coating.
- Que. 3(a) What is hard gelatincapsule? How they are numbered? What dose they number signifies?
  - (b) Write down the construction and working of a "hand operated "hard gelatin capsule filling machine.
- Que.4(a) Give the detail of packaging, testing and storage of capsule.
  - (b) What are the types of microcapsule? And write down the importance of microencapsulation in pharmacy.
- Que.5(a) Describes the techniques used in micro-encapsulation. Write down every evaluation parameters foe microcapsule in detail.
  - (b) Give the mechanism of release system in respect to sustained release and control release.

- Que.6 (a) What do you understand by in-vitro method of evaluation in respect to release system.
  - (b) Write in brief the various type of vehicles used in the formulation of parenteral preparation.
- Que.7(a) What are the different advantages used in the formulation of parenteral products?
  - (b) Describe in brief about membrane filtration method for the test of sterility.
- Que.8 (a) Define the term "parenteral products". Discuss in brief the general requirement for parenteral dosage forms.
  - (b) Define the term "sterility test". Describe the various steps which are involved in sterility testing.

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Roll. No.	Paper ID and Roll No. to be filled in your Answer book									
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# B.PHARM-VI SEM. EXAMINATION 2019 Paper code: PHR-603 Pharmaceutical Chemistry-VII (Medicinal Chemistry-II)

Time- 3 Hrs

MM-100

Note: attempt any five questions. Each question carries 20 marks.

- Write a note on any two
   (a) QSAR (b) CADD (c) Structure based drug design
- Write the structure of any 10 drugs
   Propranolol, warfarin, isosorbide mononitrate, lovastatin, nifedipine, methyldopa, ranitidine, ibuprofen, acetazolamide, mefenamic acid, captopril, dicycomine
- Write synthesis of any four nifedipine, warfarin, captopril propranolol, procainamide
- 4. Define and describe the cardiac glycoside. Discuss the chemistry if Digitalis glycoside.
- 5. Define and classify the NSAID. Discuss each class with example.
- 6. Write note on (a) antispasmodic (b) antiulcer drugs
- 7. Attempt any two (a) antihyperlipidimic drugs (b) antitussive agents





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EVEN SEMESTER EXAMINATION-2019
B. PHARMA, (SEMESTER-V)
PHARMACOLOGY-II (Subject Code: PHR-604)

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Time: 03:00 Hours

Note: Attempt all questions.

# 1. Answer any four out of five:

- (a) Classify antihypertensive agents
- (b) Write a note on Beta adrenergic blockers
- (c) Write a note on antacids
- (d) Write a note on anti-tussives.
- (e) Write a note on Laxatives

### 2. Answer any four out of five:

(4x5=20)

(4x5=20)

Maximum Marks: 100

- (a) What are anti-anginals, classify anti-anginals.
- (b) Write a note on hematinics.
- (c) What are autocoids? Classify anti-histaminics.
- (d) Write a note on respiratory stimulants.
- (e) Write a note on emetics.

# 3. Attempt any two out of three:

(2x10=20)

- (a) What are cardiac glycosides? Name them and describe the pharmacology of digitalis.
- (b) Classify anti-asthmatics and describe the pharmacology of Methylxanthines.
- (c) Classify the NSAIDS, describe the pharmacology of Aspirin.

# 4. Attempt any two out of three:

(2x10=20)

- (a) What is arrhythmia? Classify anti-arrythmics and describe the pharmacology of a sodium channel blocker.
- (b) Classify anti ulcer drugs and describe the pharmacology of cimetidine.
- (c) What are coagulants? Classify them and describe the pharmacology of Vit. K.

# 5. Attempt any two out of three:

(2x10=20)

- (a) Classify anti-hyperlipidemics, describe the pharmacology of statins.
- (b) What are anti coagulants? Classify them and mention the pharmacology of heparin.
- (c) What are diuretics? Classify them and mention the pharmacology of thiazide diuretics.

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Time- 3 Hrs

MM-100

Note: Attempt All questions

1. Answer any four out of five:

(4\*5=20)

- a) Define Ayurveda. Explain principles of ayurvedic medicinal system.
- b) Give definition of glycosides with their classification.
- c) Write biological source, chemical constituents of Lehsun, Kantkari & Gokhru.
- d) Draw a well labeled diagram of T.S of senna leaf.
- e) Write a note on preparation of churnas.
- 2. Answer at y four out of five:

(4\*5=20)

- a) Differentiate between cardenolides & Bufadienolides.
- b) Write Biological source, medicinal uses of Rhubarb and Squill.
- c) Give specific identification tests for Anthraquinone glycosides.
- d) Explain stass otto method for isolation of glycosides.
- e) Write a short note on Gymnea.
- 3. Answer any two out of three:

(2\*10=20)

- a) Clarify the utilization and production of Solasodine.
- b) Discuss principles of Homeopathic medicinal system.
- c) Give an account on cultivation, Collection and morphology of Digitalis.

4. Attempt any two out of three:

(2\*10=20)

- a) Outline the isolation method and utilization of Podophyllotoxin.
- b) Give a detailed pharmacognostical account on Guggul.
- c) Write a brief note on Herbal pharmacopoeia.
- 5. Attempt any two out of three:

(2\*10=20)

- a) What are different Ayurvedic dosage forms? Explain preparation of Aristas & Asavas.
- b) Give biological source, pharmacology and therapeutic constituents of Amla.
- Give an detailed account on morphology ,specific microscopical characteristics and uses of Liquorice.

**PHR605**