B. Pharmacy 6th Semester Question Paper 2017-2018

B.PHARMA (SEMESTER-VI)

PHARMACOGNOSY-II

Time: 03:00 Hours

Max Marks: 100

Note: Attempt all questions:

Note: Attempt all questions as per instructions.

1 Attempt any four parts of this section.

5x4 = 20

- (a) Give short note on saponin glycoside.
- (b) Give identiheation test for anthraquinone glycoside.
- (c) Give biological source, macroscopic characters, chemical constituents and uses of aloe.
- (d) Discuss collection, cultivation and adulterants of digitalis.
- (e) Give biological source, macroscopic characters, chemical constituents and uses of senna.
- 2 Attempt any two parts of this section.

10x2=20

- (a) Give biological source, macroscopic characters, chemical constituents and uses of saffron and ammi majus.
- (b) Write about production and utilization of sennoside
- (c) Write about production and utilization of diosgenin

(a) Bhasma (b) Asavas (c) Siddha system of medicine (d) Ayurvedic system of medicine (e) Churanas	}	Write short notes on any two of the following. 10x2=		
(c) Amla and Kantkari Attempt any four parts of this section. (a) Bhasma (b) Asavas (c) Siddha system of medicine (d) Ayurvedic system of medicine (e) Churanas Attempt any two parts of this section. 10x2= (a) Write in detail about biological source, chemical constituents and common tulsi and shankhpushpi. (b) Give pharmacognosy of Brahmi. (c) Give biological source, cultivation and collection and uses of any two. (i) Neem (ii) Shilajit (iii) Gymnema		(a)	Bhilwa and Guggul	
Attempt any four parts of this section. (a) Bhasma (b) Asavas (c) Siddha system of medicine (d) Ayurvedic system of medicine (e) Churanas Attempt any two parts of this section. 10x2= (a) Write in detail about biological source, chemical constituents and common of tulsi and shankhpushpi. (b) Give pharmacognosy of Brahmi. (c) Give biological source, cultivation and collection and uses of any two. (i) Neem (ii) Shilajit (iii) Gymnema		(b)	Shatavari and Tylophora	
(a) Bhasma (b) Asavas (c) Siddha system of medicine (d) Ayurvedic system of medicine (e) Churanas Attempt any two parts of this section. 10x2= (a) Write in detail about biological source, chemical constituents and common utulsi and shankhpushpi. (b) Give pharmacognosy of Brahmi. (c) Give biological source, cultivation and collection and uses of any two. (i) Neem (ii) Shilajit (iii) Gymnema		(c)	Amla and Kantkari	
(b) Asavas (c) Siddha system of medicine (d) Ayurvedic system of medicine (e) Churanas Attempt any two parts of this section. 10x2= (a) Write in detail about biological source, chemical constituents and common utulsi and shankhpushpi. (b) Give pharmacognosy of Brahmi. (c) Give biological source, cultivation and collection and uses of any two. (i) Neem (ii) Shilajit (iii) Gymnema	1	Atten	npt any four parts of this section.	5x4=20
(c) Siddha system of medicine (d) Ayurvedic system of medicine (e) Churanas Attempt any two parts of this section. 10x2= (a) Write in detail about biological source, chemical constituents and common of tulsi and shankhpushpi. (b) Give pharmacognosy of Brahmi. (c) Give biological source, cultivation and collection and uses of any two. (i) Neem (ii) Shilajit (iii) Gymnema	001	(a)	Bhasma	Time: 03:00 Hours
(d) Ayurvedic system of medicine (e) Churanas Attempt any two parts of this section. 10x2= (a) Write in detail about biological source, chemical constituents and common under the transfer of the transfer		(b)	Asavas	
(e) Churanas Attempt any two parts of this section. (a) Write in detail about biological source, chemical constituents and common utulsi and shankhpushpi. (b) Give pharmacognosy of Brahmi. (c) Give biological source, cultivation and collection and uses of any two. (i) Neem (ii) Shilajit (iii) Gymnema		(c)	Siddha system of medicine	sade Allerga all guest
Attempt any two parts of this section. (a) Write in detail about biological source, chemical constituents and common usuals and shankhpushpi. (b) Give pharmacognosy of Brahmi. (c) Give biological source, cultivation and collection and uses of any two. (i) Neem (ii) Shilajit (iii) Gymnema		(d)	Ayurvedic system of medicine	
 (a) Write in detail about biological source, chemical constituents and common utulsi and shankhpushpi. (b) Give pharmacognosy of Brahmi. (c) Give biological source, cultivation and collection and uses of any two. (i) Neem (ii) Shilajit (iii) Gymnema 		(e)	Churanas	
tulsi and shankhpushpi. (b) Give pharmacognosy of Brahmi. (c) Give biological source, cultivation and collection and uses of any two. (i) Neem (ii) Shilajit (iii) Gymnema	5	Atten	npt any two parts of this section.	10x2=20
(c) Give biological source, cultivation and collection and uses of any two. (i) Neem (ii) Shilajit (iii) Gymnema		(a)		
(ii) Neem (iii) Shilajit (iii) Gymnema X		(b)	Give pharmacognosy of Brahmi.	
(ii) Neem (iii) Shilajit (iii) Gymnema X		(c)	Give biological source, cultivation and collection and uses	of any two.
(ii) Shilajit (iii) Gymnema X			(i) Neem	
				2 Attempt any two
obsorned to militarity that he launting funds entity. (A			(iii) Gymnema	cal Cive bidden
			OCHORRES TO MILITARIA THE RESTAURANT	tunde strev. (II)

B. PHARMA (SEMESTER-VI)

PHARMACOLOGY-II

Time: 03:00 Hours Max Marks: 100

Note: Attempt all question, each question carries equal marks.

1. Attempt any four questions: $(5 \times 4 = 20)$

- (a) Explain the pharmacological action of the Vit. K & anticoagulants.
- (b) Write the pharmacological action of Haematinics.
- (c) Discuss the pharmacological action of fibrinolytics & antiplatelet drugs.
- (d) Explains in brief about plasma volume expanders.
- (e) Detail the pharmacological action of Thromboxane.
- 2. Write in detail: (Attempt any four questions) (5 x 4 = 20)
 - (a) Anti-asthmatic drugs.
 - (b) Anti-tussives & Expectorants,
 - (c) Respiratory Stimulants
 - (d) Prostaglandins
 - (e) Histamine
- 3. Attempt any two questions: $(10 \times 2 = 20)$
 - (a) Write in detail about Antacids and Antiulcer drugs.
 - (b) Give the detail Pharmacology of Laxatives and antidiarrhoeal Agents.
 - (c) Write in detail about Emetics and antiemetics.
- 4. Discuss in brief: (Attempt any four questions) (5 x 4 = 20)
 - (a) Antianginal drugs.
 - (b) Antiarrhythmics.

PHR-604/1380 (1) [P.T.O.]

B.PHARM (SEMESTER-VI)

PHARMACEUTICAL CHEMISTRY

MEDICINAL CHEMISTRY - II

Time: 03:00 Hours Max Marks : 100

Note: Attempt All questions. Attempt questions as per instructions given.

Q.1. Attempt any four:

(5x4=20)

- (a) What is drug design? Discuss analogues based drug designing.
- (b) What is structural based drug designing. Discuss with suitable examples.
- (c) Give the mechanism of action and synthetic procedure of Ranitidine.
- (d) Write short note on synthetic hypoglycemic agents.
- (e) Give various parameter of QSAR studies.

Q.2. Answer any four of the following:

(5x4=20)

- (a) Write a note on cardiac glycosides.
- (b) Classify anti-arryhthmic agents with examples.
- (c) Discuss mechanism of action of various antianginal drugs.
- (d) SAR of ß-Blockers.
- (e) Write a note on proton pump inhibitors.

Q.3. Attempt any two of the following:

(10x2=20)

(a) Give classification of Antihypertensive drugs with chemical structure, mechanism of action and uses of one member of each class.

- (b) Explain the mechanism of blood coagulation. Give examples with structure and mechanism Of action of oral anti-coagulants and SAR of coumarin derivatives.
- (c) Write a detail note on thiazide diuretics including their mode of action and SAR.

Q.4. Attempt any two of the following:

(10x2=20)

- (a) Classify diuretics drugs giving examples of each category. Write short note on osmotic agents and acidifying salts.
- (b) Define antipyretics? Write a detail note on cox-2 inhibitors.
- (c) Give synthetic procedure of:
 - i. Omeprazole
 - ii. Methyldopa
 - iii. Lovastatin
 - iv. Spironolactone.

Q.5. Attempt any two of the following:

(10x2=20)

- (a) Give synthetic procedure and uses of:
 - i. Aspirin,
 - ii. Captopril
 - iii. Heparine
 - iv. Paracetamol.
- (b). Discuss non selective cox inhibitors with MOA and SAR.
- (c). Discuss antitussive. Give the mechanism of action and synthesis of dextromthorphen.

---- x ----

136

Even Semester Examination 2017-18

B.PHARMA (SEMESTER-VI)

PHARMACEUTICAL TECHNOLOGY-II

Time: 03:00 Hours Max Marks: 100

Note: Attempt all questions. Each carry equal marks.

i. Attempt any four of the following.

(5x4)

- (a) Define the term "Tablets"? Classify the different types of tablets.
- (b) Discuss in brief the various tests which are generally done to maintain the quality control of tablets.
- (c) Common defects which occur in compressed tablets.
- (d) Explain physics of tablet making.
- (e) Enumerate the various type of tablet coating techniques emphasizing on sugar coating.
- Attempt any four of the following.

(5x4)

- (a) Describe gelatin production process.
- (b) Difference between soft gelatin capsules and hard gelatin capsules.
- (c) Explain the packaging and storage of Capsules.
- (d) Write in detail about application of microencapsulation in pharmacy with some example.
- (e) Give physiochemical methods of evaluation of microcapsules.

Attempt any four of the following.

(5x4)

- (a) Give classification of parenteral products with suitable example based on their route of administration.
- (b) Water for Injection
- (c) Test for sterility of parenteral products
- (d) Various component of Parenteral formulation.
- (e) Selection of container and closure for parenterals.
- Attempt any two of the following.

(10x2)

- (a) What is major objective of controlled release formulations? Discuss various pharmacokinetic parameters in design of controlled release.
- (b) Define the term sustained release. Give classification of sustained release dosage forms
- (c) Write a note on in vitro evaluation studies of CRDDS.
- Attempt any four of the following.

(10x2)

- (a) Discuss in brief about various formulation ingredients required for nasal products .Give various evaluation tests done for nasal solutions and nasal drops?
- (b) What are ophthalmic products? Discuss ideal characteristics of an ideal ophthalmic product emphasizing on recent advancement in ophthalmic products.
- (c) Give the formulation and evaluation of otic products.

---- X ----

B.Pharma. (SEMESTER-VI)

PHARMACEUTICAL BIOTECHNOLOGY

Time: 03:00 Hours Max Marks: 100

Note: Attempt all questions.

- (a) Describe various applications of biotechnology in pharmaceutical science (8 marks)
 - (b) Briefly describe any two of following

(6x2=12 marks)

- (i) Fermentor design
- (ii) Protoplast fusion
- (iii) Human insulin produced by recombinant DNA technology
- Attempt any two:

(10x2=20 marks)

- (a) Describe various inhibitors of protein synthesis and their mechanisms of action
- (b) Write detailed note on production of Hybridoma?
- (c) Write an essay on historical development of antibiotics?
- 3. Write detailed note on any two of the following:

(10x2=20 marks)

- (a) Soil-screening for identification of antibiotic producing microorganisms
- (b) Regulation of gene-expression in prokaryotes
- (c) Autoimmune disorders

4. Attempt any two:

(10x2=20 marks)

- (a) What are the factors affecting enzyme kinetics?
- (b) What are the various techniques used for immobilization of enzymes?
- (c) Describe various immunodeficiency disorders?
- 5. Write short note on any four of following

(5x4=20 marks):

- (a) Antigen and haptens
- (b) Immunosuppression
- (c) Immunological tolerance
- (d) Genetic code
- (e) Applications of gene cloning

----- V -----