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M. Sc. – Pharmaceutical Chemistry (Semester-I) Examination
Saturday, 22th October, 2016
10:00 a.m. to 01:00 p.m.

PS01CPCH01: Basic Physiology and Pharmacognosy

Notes) Figures to the right indicate marks.) Draw neat and labeled diagram, wherever necessary.			
Q.1		Choose the Correct Answers of the Following.	[08]		
	1.	Fibroblast cells are found in (a) Bones (b) Muscles (c) Nerves (d) Connective tissue			
	2.				
	3.	All of the following are organs of the digestive system except (a) spleen (b) liver (c) tongue (d) esophagus			
	4. In Male the sex hormone that maintains sexual organs and secondary sex characteristics is				
	_	(a) Progesterone (b) Estrogen (c) Testosterone (d) Relaxin			
	5.				
	6.	(a) Arjuna (b) Ashoka (c) Pipal (d) Catechu is a biological source of catechu from <i>Acacia catechu</i> .			
		(a) Leaf (b) Root (c) Wood (d) Bark			
	7.				
		(a) Catharanthus roseus (b) Rose (c) Aloe vera (d) Gymnema sylvestre			
	8.	compound is utilized as mitotic inhibitor.			
		(a) Chaulmoogra oil (b) Colchicine (c) Catechu (d) Guggul			
Q.2		Answer the following in short. (Attempt Any Seven)	[14]		
ζ	1.				
	2.	Draw a labeled diagram of cardiac muscle tissue.			
	3.	Narrate about neurotransmitters and give their examples.			
	4.	Enlist the different functions of Urinary system.			
	-5.	Give source and therapeutic application of Ashwagandha.			
	6.	What are the applications of Aloe gel?			
	7.	What is a significance of guggul in Ayurvedic formulations?			
-	8.	Give the names of medicinal plants applied as diuretic and blood purifier.			
	9.	Which herb has application as brain tonic?			

Q.3 (A)	Enlist the different part of brain and discus their functions.		
(B)	Explain the structural features of aerolar and adipose connective tissue with suitable diagram.	[06 [06	
•	OR		
(B)	Explain the steps involved in the blood clotting mechanisms.	[06	
Q.4 (A)	Describe the regulation of gastric secretions.	[06]	
(B)	Describe the structure of nephron with suitable diagram. OR	[06]	
(B)	Enlist the different hormones synthesis by Adrenal gland and write their function in brief.	[06]	
Q.5 (A)	Explain cultivation, harvesting, application and chemistry of opium.	[06]	
(B)	Give note on medicinal plants applied for bronchitis.	[06]	
	OR		
(B)	Give a note on botanical source, chemistry and application of Digitalis and Arjuna.	[06]	
Q.6 (A)	Narrate contribution of <i>Vinca rosa</i> in cancer.	[06]	
(B)	Provide details of medicinal plants applied on diabetes.	•	
	OR	[06]	
(B)	Explain the botanical source, discovery, chemistry and application of Quinine.	[06]	
