

2nd Semester Regular / Back Examination 2018-19

PHARMACEUTICAL ORGANIC CHEMISTRY I

BRANCH : B.Pharm

Time : 3 Hours

Max Marks : 75

Q.CODE : F196

Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any TWO from

Part-C

The figures in the right hand margin indicate marks.

Part- A

Objective Answer Type Questions (Answer All)

(2 x 10)

- What is Tollens reagent ?
- What is Rectified & Methylated Spirit ?
- What is Iodoform Reaction ?
- Write the equation involved in Carbylamines reactions?
- What is the difference Between Gem-Vic Dihalide?
- What is Rosendmund Reduction ?
- Why chloro acetic acid is more acidic than acetic acid?
- Write the structure & Use of Hexamine?
- What is saytzeff rule with suitable examples?
- What is Hinesburg test to distinguish between Primary, Secondary and Tertiary Aliphatic Amines?

Part- B

Focused-Short Answer Type Questions- (Answer Any Seven)

(5 x 7)

- Discuss Sp³ hybridizations with suitable examples.
- Explain Cannizzaro reaction reaction.
- How you differentiate 1^o, 2^o & 3^o Alcohol.
- Explain Diel-Alder Reaction with suitable example. .
- Discuss the mechanism of E1 Reaction with suitable example.
- Explain Markovnikove rule with suitable Example.
- Write the free-radical substitution reaction of methane.
- Write the structure and use of following compounds: Acetyl salicylic acid , Paraldehyde, Propylene glycol, Vanilin & Citric acid.
- Explain Aldol condensation Reaction.

Part-C

Long Answer Type Questions (Answer Any Two)

- Outline the general methods of preparations and Chemical reactions of aldehyde. (10)
- Discuss SN1 and SN2 reactions. Explain Factors affecting SN1 and SN2 reactions. (10)
- Write a note on Structural Isomerism in organic with suitable example. Discuss the common IUPAC system of nomenclature of Alcohol & Carboxylic Acid. (10)
- Describe the Five general methods of preparations and Chemical reactions of alkenes. (10)

PATHOPHYSIOLOGY

BRANCH : B.Pharma

Time : 3 Hours

Max Marks : 75

Q.CODE : F475

Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any TWO from Part-C.
The figures in the right hand margin indicate marks.

Part- A

Objective Answer Type Questions (Answer All)

(2 x 10)

- Define apoptosis with suitable example.
- Differentiate between necrosis and autolysis.
- What is triple response during acute inflammation?
- Differentiate between stable angina and unstable angina.
- Write the characteristic features of gout.
- State various symptoms of Depression.
- Define Asthma and write its symptoms.
- Which serum markers are evaluated for diagnosis of jaundice?
- Write the causes of Megaloblastic anemia.
- Define STD and write the causative agent of gonorrhoea?

Part- B

Focused-Short Answer Type Questions- (Answer Any Seven)

(5 x 7)

- Explain the pathogenesis of fatty liver.
- Differentiate between hypertrophy and hyperplasia with suitable examples.
- Define Congestive Heart Failure. Discuss pathogenesis, sign and symptoms of the disease.
- Describe about various mediators of inflammation.
- Discuss the pathophysiology and symptoms of peptic ulcer.
- Explain the pathogenesis and symptoms of Acute renal failure.
- Define Myocardial infarction. Describe the pathogenesis and diagnosis of the disease.
- What is Rheumatoid Arthritis? Explain the pathogenesis of the disease.
- Define AIDS. Discuss the pathogenesis, sign and symptoms of the disease.

Part-C

Long Answer Type Questions (Answer Any Two)

- Discuss about various causes of cell injury and describe pathogenesis of reversible cell injury due to hypoxia. (10)
- Define Hypertension. Classify it. Discuss the pathogenesis and symptoms of hypertension. (10)
- Classify Diabetes mellitus. Describe the pathophysiology, diagnosis, symptoms and complications of diabetes mellitus. (10)
- Define Tuberculosis. Classify it. Describe the mode of transmission, pathogenesis, symptoms and diagnosis of tuberculosis. (10)

Registration No :

--	--	--	--	--	--	--	--	--	--

B.Pharm
BP203T

Number of Pages : 01

2nd Semester Regular / Back Examination 2018-19
BIOCHEMISTRY – THEORY

BRANCH : B.Pharma

Time : 3 Hours

Max Marks : 75

Q Code : F353

Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any two from Part-C.
The figures in the right hand margin indicate marks.

Part- A

Objective Answer Type Questions (Answer All)

(2 x 10)

- What is invert Sugar? Name two tests for identification of reducing sugar.
- What is hartnup disease?
- What is carnitine? Write down its role in the body.
- Differentiate between DNA and RNA.
- What is high energy rich compound? Give two examples.
- What is hyperbilirubinemia? Mention its causes.
- Mention the coenzymes required for conversion of pyruvic acid to Acetyl CoA
- Write the components of ETC and indicate the sites of phosphorylation.
- Write down the central dogma of molecular genetics.
- What is rancidity and mention how DALDA is Prepared?

Part- B

Focused-Short Answer Type Questions- (Answer Any Seven)

(5 x 7)

- What is Ketosis? Describe Ketogenesis.
- Describe the Pyrimidine synthesis.
- Describe oxidation of Palmitic acid with energetic.
- What is HMP Shunt? Describe the oxidative phase and importance of HMP Shunt.
- Write down the synthesis of melatonin and mention its significance.
- Explain how ATP is synthesized in the body. Mention the significance of ATP.
- Write notes on Transcription.
- Write down the disorder of lipid metabolism.
- Define Protein. Classify it and write down the biological role of Protein.

Part-C

Long Answer Type Questions (Answer Any Two)

Q3 What is normal blood urea level? Describe the reactions of urea cycle and mention its disorder. (10)

Q4 Define enzyme. Classify with suitable examples. Describe the competitive enzyme inhibition. (10)

Q5 Write down the synthesis of Purine nucleotide. (10)

Q6 Define Glycolysis. Describe the reactions of E. M. Pathway with energetic. (10)



Registration No :

--	--	--	--	--	--	--	--	--	--

Total Number of Pages : 01

B.Pharm
BP201T

2nd Semester Regular / Back Examination 2018-19
HUMAN ANATOMY AND PHYSIOLOGY II – THEORY

BRANCH : B.Pharma

Time : 3 Hours

Max Marks : 75

Q.CODE : F599

Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any TWO from Part-C.
The figures in the right hand margin indicate marks.

Part- A

Objective Answer Type Questions (Answer All)

(2 x 10)

- Write about Broncho-pulmonary segment.
- How does Feedback system Work in endocrine system?
- What do you understand by Tidal Volume?
- Differentiate between Spermatogenesis and Oogenesis.
- What do you mean by Acid-Base Imbalance?
- What is Neurotransmitters?
- Write about Cerebro-spinal Fluid.
- Write about Salivary Glands.
- Write the pubertal changes in females?
- Differentiate between Neurone and Neuroglia.

Part- B

Focused-Short Answer Type Questions- (Answer Any Seven)

(5 x 7)

- Explain Renin-Angiotensin-Aldosterone Axis System and its role in Blood pressure regulation.
- Describe Menstrual Cycle and the role of Ovary.
- Describe the types of Pituitary Hormones and mention about Hyper-pituitarism.
- Discuss about the transport and exchange of Gases in respiratory system.
- Explain Bio-energetics. Write a note about ATP and its function.
- Describe the functions of Insulin and mention about Diabetes Mellitus.
- Discuss about Artificial Respiration and Cardio-pulmonary resuscitation.
- Write a note about Spinal cord. Describe its parts with a neat labeled diagram.
- Write a note on digestion of food in Digestive tract.

Part-C

Long Answer Type Questions (Answer Any Two)

Q3 Draw and Describe the anatomy of Digestive system. Briefly discuss about the digestion of food in Mouth. (10)

Q4 Describe the parts of Central nervous system. Discuss about the parts of cerebral cortex and their functions. (10)

Q5 Describe the Urinary system with a neat and labeled diagram. Briefly discuss about the process of urine formation. (10)

Q6 Describe the respiratory system with a neat and labeled diagram. Discuss about the physiology of respiration in the lungs. (10)



Registration No :										
-------------------	--	--	--	--	--	--	--	--	--	--

Total Number of Pages :		B.PHARM
		BP206T

Second Semester Regular Examination – 2018-19
(Non University Examination as per Pharmacy Council of India (PCI) Guideline 2017-18

Sub : Environmental Science (Theory)

Branch : B. Pharm

Time : 2 Hours

Max Marks : 50

The figures in the right hand margin indicate marks.

Group – A		
	Short type of Question : Answer any Six of the following questions :	[5 x 6]
Q1.	Difference between renewable and non-renewable resource?	
Q2.	Explain any two causes and effect of deforestation?	
Q3.	What is food chain? and state its import ants.	
Q4.	Give the structure of desert ecosystem.	
Q5.	What are major causes of environmental pollution?	
Q6.	Enumerate the effect of water pollution on ecosystem.	
Q7.	What are the role individual to conservation of natural sources?	
Q8.	Explain function of ecosystem.	
Group - B		
	Long type Question : Answer any Two from the following questions :	[10 x 2]
Q9.	Discuss in detail the component of the structure of an ecosystem.	
Q10.	Discuss the causes and measures to control soil pollution.?	
Q11.	Describe the type of mineral resource and also discuss the uses and aid exploitation of mineral resources?	

Registration No :										
-------------------	--	--	--	--	--	--	--	--	--	--

Total Number of Pages :		B.PHARM
		BP205T

Second Semester Regular Examination – 2018-19
Non University Examination as per Pharmacy Council of India (PCI) Guideline 2017-18

✓ **Sub : Computer Application in Pharmacy (Theory)**

Branch : B. Pharm

Time : 2 Hours

Max Marks : 50

The figures in the right hand margin indicate marks.

Group – A		
	Short type of Question : Answer any Six of the following questions :	[5 x 6]
1.	Explain the steps to create a form using forms wizard?	
2.	What is database? Explain characteristics of database?	
3.	Differentiate between XML and HTML?	
4.	What is feasibility study? Explain types?	
5.	What is number system? Explain types of number system?	
6.	What is information gathering tools?	
7.	Explain project management tools?	
8.	Convert number system : a) $(1E.53)_{16} = (?)_8$ b) $(8B3F)_{16} = (?)_8$ c) $(35)_8 = (?)_{10}$ d) $(11001111)_{10} = (?)_{16}$	
Group - B		
	Long type Question : Answer any Two from the following questions :	[10 x 2]
Q9.	What is Data Flow Diagrams (DFD)? Explain level of DFD? Write down advantage & disadvantage of DFD?	
Q10.	What is Process? Explain phases of process life cycle?	
Q11.	What is programming language? Explain types of programming languages?	