Pharm-D (1st Prof.) 2nd Semester (F-24) Exam 2025

Paper: Pharmaceutical Chemistry-IB (Organic-II) (PHRM-5113/PHARM-316) Maximum Marks: 60

Time Allowed: 02:30 Hours

Note:	Attempt all questions	i.		
		Objective Part	(Compulsory)	,
Q.1.	What is thiophes ii. Define reaction iii. What are carbod iv. Define Wittig ro Why pyridine is vii. What is Substit How Indole is for the Cannization Define Cannization Define Arndt E	f the following in 4-5 line? Draw its resonance intermediate species. Greation? Explain it. eaction with example. It is more basic than ammoution reactions, Give example or reaction with example is tert reaction with example is tert reaction with example? How it is formed?	ive examples. nia? ample? ctions. es.	(2*10)
		Subjective Pa	rt (4*10)	
Q.2 Q.2 Q.4	Write down the me Radicals.	Reaction. Discuss its ge gement. Discuss its gene thods of preparation, pr	eneral reaction and mechanism with ral reaction and mechanism with ex- operties and pharmaceutical applicature, properties and pharmaceutic	ications of FREE
		LK-5409	/14-11-25	

Pharm-D (1st Prof.) 2nd Semester (F-24) Exam 2025

Paper: Pharmaceutics-IB (Physical Pharmacy-II) (PHRM-5111/PHARM-315)

Time	Allowed: 02:30 Hours		Maximu	um Marks: 60
Note:	Attempt all questions.			
		Objective Part	(Compulsory)	
Q.1.	i. Sublimation ii. Levigation iii. Evaporation iii. Evaporation iv. Ignition v. Lyophilization vi. Fusion vii. Adsorption viii. Polymorphism ix. Dessication x.√ Centrifugation	e following in 4-5 lines	each on your answer sheet.	(2*10)
		Subjective Part	(4*10)	
Q.2. Q.3. Q.4. Q.5.	Define crystallization; also What is maceration? expla Explain rate and order of r What is liquid-liquid extra	ain its purpose and proc eactions.		
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Pharm-D (1st Prof.) 2nd Semester (F-24) Exam 2025

Paper: Physiology-B (PHRM-5117/PHRM-318)

Time Allowed: 02:30 Hours

Maximum Marks: 60

Note: Attempt all questions.

Objective Part (Compulsory)

Q.1. Write short answers of the following in 4-5 lines each on your answer sheet.

(2)*10)

- Enlist the non-respiratory functions of lungs.
- ii. Write down the factors that increase blood pressure.
- iii. Discuss the anti-clotting mechanisms of heparin and warfarin.
- iv. Name the factors that provide first and second line of defense against infection.
- v. How renin angiotensin aldosterone system controls the blood pressure?
- vi. Briefly discuss the factors that maintain body water balance.
- vii. Define gastritis, its symptoms and causes.
- viii. Define pulmonary ventilation and its normal value.
- ix. Briefly discuss the hormonal control of male reproductive functions.
- x. What are the hormonal influences on growth?

Subjective Part (4*10)

- Q.2. Discuss the chemical reactions that occur during exchange of gases in alveoli and tissues.
- Q.3. Elaborate the mechanical events of cardiac cycle.
- Q.4. Describe the mechanisms through which kidneys regulate acid base balance.
- Q.5. How gastric secretions and motility are regulated?

Fharm-D (1st Prof.) 2nd Semester (F-24) Exam 2025

Paper: Pharmaccutical Chemistry-IB (Biochemistry-II) (PHRM-5115/PHARM-317)

Time Allowed: 02:30 Hours Maximum Marks: 60

Note: Attempt all questions.

Objective Part (Compulsory)

Q.1. Write short answers of the following in 4-5 lines each on your answer sheet.

(2*10)

- i. What are the main precursors of Gluconeogenesis?
- ii. What is Glucose Alanine cycle?
- iii. Differentiate between the Aerobic and Anaerobic Glycolysis.
- Discuss the role of Pyruvate: Kinase and its associated deficiency disease.
- v. Discuss the fate of Glucose 6 phosphate in muscle, brain and liver.
- vi. Discus the importance of Kreb Cycle.
- vii. How much ATPs produced from one molecule of Palmitoyl CoA by Beta Oxidation?
- viii. Define and briefly explain the Ketogenesis.
- ix. What are Porphyrias also classify the Porphyrias?
- x. What is Hemoglobin structure and function?

Subjective Part (4*10)

- Q.2. Discuss the Synthesis and Degradation of Heme.
- Q.3. Discuss the Pentose Phosphate pathway in detail.
- Q.4. Draw and calculate the energy calculation of TCA cycle and Urea Cycle.
- Q.5. Discuss the De-Novo Synthesis in detail.

 LK-5410/17-11-25	

Pharm-D (1st Prof.) 2nd Semester (F-24) Exam 2025

Paper: English-II (Communication & Writing Skills) (URCE-5102/ENG-301)

Maximum Marks: 60 Time Allowed: 02:30 Hours Attempt all questions. Note: (Compulsory) Objective Part (2*10)Write short answers of the following in 4-5 lines each on your answer sheet. Q.1. Define a coherent paragraph. Write two differences between CV and Resume. ii. What is précis writing? iii. Define skimming and scanning. iv. What is the purpose of writing meeting minutes? V. Mention two important qualities of an effective presentation. vi. Write two characteristics of a good research proposal. vii. Define discursive essay. viii. Write two features of a technical report. ix. What is a memo? X. Subjective Part (4*10) Translate into English. پاکستان ایک امن پندملک ہے۔ ہم اپنے ہمیایوں سے ہمیشہ دوستانہ تعلقات رکھنا چاہتے ہیں۔ لیکن اس کامطلب یہ نہیں کہ ہم اپنے و فاع سے غافل ہو جائیں۔ ہمیں اپنے Q.2. مروو بین پر نظر رکھنے کی ضرورت ہے۔ ہمیں اتنامضبوط ہونا چاہیے کہ کوئی ہماری طرف بڑی آ تکھ سے نادیکھ سکے۔ موجودہ زیانے میں مضبوط و فاع ہی امن کی صاحت ہے۔ Write a job application with CV for the post of Pharmacist Assistant in a hospital. Write a descriptive essay on "The Role of Communication Skills in Professional Life." Q.3. Write a technical report on "Uses of Pharmacy Record Keeping System." 0.4. 0.5.

LK-5407/12-11-25 -----