



हिमालयन भेषजी विज्ञान स्कूल
स्वामी राम हिमालयन विश्वविद्यालय की एक शैक्षणिक इकाई

Himalayan School of Pharmaceutical Sciences

A Constituent Academic Unit of Swami Rama Himalayan University



Roll No. _____

Date: _____

B. Pharm. IInd Semester
Second Sessional Theory Examination (2025)

Subject Code: BP202T

Subject Name: Pharmaceutical Organic Chemistry I

Time: 1.5 Hours

Total Marks: 30

Part	Q. No		Marks	CO	bl
A		Attempt all questions	10		
	1.	What is the order of SN1 reaction?	1	CO1	K3
	2.	What are essential steps involving in SN1 reaction?	1	CO1	K3
	3.	Explain Inversion in SN2 reaction.	1	CO1	K3
	4.	Enlist the factors which decides the reaction to be followed as SN1 and SN2.	1	CO1	K3
	5.	Give the name of ionic intermediate in Cannizzaro and Aldol reaction.	1	CO1	K3
	6.	Cannizzaro reaction is redox reaction (true/false)	1	CO2	K3
	7.	What is the role of enolate in condensation reaction?	1	CO2	K3
	8.	What is cross aldol reaction?	1	CO2	K3
	9.	Why aldehydes are more reactive than ketone?	1	CO2	K3
	10.	Which reagent is used as qualitative test for aldehyde?	1	CO2	K3
B		Attempt any one question	10		
	1.	Explain the factors which modulate the reactivity of alkyl halides for the substitution reaction.	10	CO1	K3
	2.	Differentiate SN1 and SN2.	10	CO1	K3
C		Attempt any two questions	10		
	1.	Explain the reactivity of carbonyl group.	5	CO2	K3
	2.	Explain the stereochemical out of substitution reaction.	5	CO2	K3
	3.	Identify which factor governs the reactivity of carbonyl group.	5	CO2	K3



Roll No. _____

Date: _____

B. Pharm. – IInd Semester

Even-Semester (Second Sessional) Examination (2023-24)

Subject Code: BP204T

Subject Name: Pathophysiology

Time: 1.5 Hour

Total Marks: 30

Part	Q. No		Marks	CO	BL
A		Attempt all questions	10		
	1.	Which serological test can be used for diagnosis of typhoid fever? a. Widal test b. PCR c. ELISA d. None of the above	1	4	3
	2.	Parkinson disease is marked by a lack of which chemical in the brain? a. Serotonin b. GABA c. Dopamine d. Norepinephrine	1	4	3
	3.	Increase dopaminergic transmission into mesolimbic system shows positive system in schizophrenia. a. Depression b. Alzheimer c. Parkinson's d. Schizophrenia.	1	4	3
	4.	Hallucinations means a. Hearing or seeing things that don't exist b. These are false beliefs that are not based in reality c. The person may jump from one subject to another for no logical reason. d. Disorganized thinking is inferred from disorganized speech.	1	4	3
	5.	In which type of diabetes do people often produce insulin but the cells of the body fail to adequately respond to insulin? a. type 1 diabetes b. type 2 diabetes c. diabetes insipidus d. gestational diabetes	1	4	3
	6.	Which THREE of the following are involved in pituitary gland disorders? a. anterior pituitary gland b. posterior pituitary gland c. hypothalamus d. medulla oblongata	1	4	3
	7.	A person demonstrating jaundice, joint pain, dark coloured urine and pyrexia may have _____. a. paracetamol overdose b. hepatitis c. phenylketonuria d. alcohol-related liver disease	1	4	3
	8.	Fatigue is often a sign of depression; raised levels of what following mediator contribute to this? a. prostaglandins b. interleukin c. histamine d. cytokines	1	4	3
	9.	In schizophrenia, what part of the brain is found to be thinner due to loss of grey and white matter? a. basal ganglia b. cerebral cortex c. prefrontal cortex d. basal ganglia	1	4	3
	10.	Which statement about cancer chemotherapy is correct? a. Chemotherapy drugs do not affect normal cells. b. Chemotherapy drugs can be administered as one single dose. c. Chemotherapy drugs may affect the cell cycle. d. Chemotherapy drugs are local treatments.	1	4	3
B		Attempt any one question	10		
	1.	Give in detail about Classification, etiology and pathogenesis of Cancer	10	4	3
	2.	Give etiology, pathogenesis, sign and symptoms and treatment and management of Peptic Ulcer	10	4	3
C		Attempt any two questions	10		
	1.	Give etiology, pathogenesis, sign and symptoms and treatment and management of Alcoholic liver disease or diabetes	5	4	3
	2.	Give etiology, pathogenesis, sign and symptoms and treatment and management of schizophrenia or Depression.	5	4	3
	3.	Give etiology, pathogenesis, sign and symptoms and treatment and management of Inflammatory bowel diseases or jaundice.	5	4	3



हिमालयन भेषजी विज्ञान स्कूल
स्वामी राम हिमालयन विश्वविद्यालय की एक शैक्षणिक इकाई
Himalayan School of Pharmaceutical Sciences
A Constituent Academic Unit of Swami Rama Himalayan University



Roll No. _____

Date: 03.05.2025

B. Pharm. – IInd Semester

Second Sessional Theory Examination (2025)

Subject Code: BP205T

Subject Name: Computer Applications in Pharmacy

Time: 1.5 Hour

Total Marks: 30

S. No.	Question	Marks	CO	BL
Attempt any One out of Two				
1	What is Pharmacokinetics? Explain the terms Absorption, Distribution, Metabolism, and Excretion (ADME).	10	CO-3	R, U
2	What is barcode medicine identification? How does it help in hospitals?	10	CO-3	U
Attempt any Four out of Six				
1	What is electronic prescribing (EP)? Why is it useful?	5	CO-3	U
2	What are programming languages? Explain characteristics of a programming language.	5	CO-2	U
3	Discuss the phases in drug design and development.	5	CO-3	U
4	What is a Database? Explain its types.	5	CO-2	R, U
5	What is the role of clinical pharmacy?	5	CO-3	U
6	What is Microsoft Access(MS Access)? Explain in detail.	5	CO-2	R, U

BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analyzing, 5 –Evaluating, 6 - Creating) **CO** – Course Outcomes



हिमालयन भेषजी विज्ञान स्कूल
स्वामी राम हिमालयन विश्वविद्यालय की एक शैक्षणिक इकाई
Himalayan School of Pharmaceutical Sciences
A Constituent Academic Unit of Swami Rama Himalayan University



Roll No. _____

Date: _____

B. Pharm. – 2nd Semester

Second Sessional Theory Examination (2025)

Subject Code: BP206T

Subject Name: Environmental Sciences

Time: 1.5 Hour

Total Marks: 30

S. No.	Question	Marks	CO	BL
Attempt any One out of two				
1	Classify natural resources with examples.	10	CO2	2
2	Describe the effects of burning of fossil fuels.	10	CO2	2
Attempt any Four out of six				
1	Differentiate between primary and secondary energy resources.	5	CO2	2
2	Write short note on causes of land degradation.	5	CO2	1
3	Brief the causes of water crisis.	5	CO2	2
4	Write any five functions of forest.	5	CO2	1
5	Describe the consequences of deforestation.	5	CO2	2
6	Write short note on role of an individual in conservation of natural resources.	5	CO4	2

CO – Course Outcomes, BL – Bloom's Level



हिमालयन भेषजी विज्ञान स्कूल

स्वामी राम हिमालयन विश्वविद्यालय की एक शैक्षणिक इकाई

Himalayan School of Pharmaceutical Sciences

A Constituent Academic Unit of Swami Rama Himalayan University



Roll No. _____

Date: _____

B. Pharm. First Year – First Semester
First Sessional Theory Examination (2025)

Subject Code: BP201T

Subject Name: Human Anatomy and Physiology – II- Theory

Time: 1.5 Hours

Total Marks: 30

Note: Support your answers with neat and well labelled diagrams.

Part	Q. No		Marks	CO	BL
A		Attempt all questions	10		
	1.	Define Glomerular Filtration Rate.	1	3	1,2
	2.	Define micturition.	1	3	1,2
	3.	Normal Tidal Volume in adults is	1	3	1,2
	4.	What is pleura?	1	3	1,3
	5.	What do you understand by Net filtration Pressure?	1	4	1,2
	6.	Full form of MALT.	1	3	1,2
	7.	Layers of urinary bladder.	1	3	1,4
	8.	Enlist the muscles of breathing.	1	3	1,2
	9.	Define pulmonary ventilation.	1	4	1,2,4
	10.	Name the Hormones contributing to regulation of water reabsorption.	10		
B		Attempt any one question			
	1.	Explain in detail: a) Mechanism of respiration. b) Regulation of respiration.		3	1,2,3
	2.	Discuss in detail: a) Renin- Angiotensin Aldosterone System. b) Physiology of Urine Formation.		3,4	1,2,3
C		Attempt any two questions	10		
	1.	Describe the gross anatomy of lung with suitable diagram.		3	2,3
	2.	Describe different parts and types of nephrons.		3	2,3
	3.	Explain various functions of kidneys.		3	2,3