Reg. No.				

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UG DEGREE END SEMESTER EXAMINATIONS - APRIL 2025.

(For those admitted in June 2021 and later)

PROGRAMME AND BRANCH: B.Sc., PHYSICS

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE		
IV	PART- III	GENERIC ELECTIVE - II	U21CH4A4	ALLIED CHEMISTRY- II		

	& Sessi	ion: 25	.04.2025/FN Time: 3 hours	Maximum: 75 Marks		
Course Outcome	Bloom's K-level	Q. No.	SECTION - A (10 X 1 = 10 Marks) Answer ALL Questions.			
CO1	K1	1.	Which Is the Non-Benzenoid Aromatic Compou a) Toluene b) Benzene c) I			
CO1	K2	2.	How many resonance structures are possible for a) 1 b) 2 c) 3			
CO2	K1	3.	The difference between the actual mass of a nucleon masses of its individual protons and neutrons (if a) Mass Defect b) Binding Energy c) l	nucleons)		
CO2	K2	4.	Helium nuclei particles are called a) Gamma particles b) Beta particle c) Alpha particles d) No particles	es that are helium nuclei		
CO3	K1	5.	The simplest amino acid is a) Glycine b) Alanine c)	Asparagine d) Tyrosine		
CO3	K2	6.	The monomeric unit of nucleic acid are called _ a) Nucleosides b) Nucleotides c) H	Purines d) Pyrimidines		
CO4	K1	7.	Potassium is used as fertilizer for which purpose? a) Development of stems and leave b) Accelerating seeding c) To prevent disease d) Early stages of plant growth			
CO4	K2	8.	Which of the following is a primary gaseous fuel? a) Water gas b) Oil gas c) Refinery gas d) Liquefied petroleum gas			
CO5	K1	9.	Identify the air born disease given below? a) Cholera b) Typhoid c) Chickenpox	d) Hepatitis A		
CO5	K2	10.	Analgesics, also called. a) Anesthetics b) painkillers c) Sulfonam	nides d) antibiotics		
Course Outcome	Bloom's K-level	Q. No.	$\frac{\text{SECTION} - B \text{ (5 X 5 = 25 Marks)}}{\text{Answer } \frac{\text{ALL}}{\text{Questions choosing either (a) or (b)}}$			
CO1	КЗ	11a.	State Huckel rule of aromaticity with example. (OR)			
CO1	КЗ	11b.	Write any two preparations of benzene.			
CO2	КЗ	12a.	How will you separate isotopes using diffusion r. (OR)	nethod.		
CO2	КЗ	12b.	Difference between Nuclear fission and fusion.			

CO3	K4	13a.	Classify the carbohydrate.
			(OR)
CO3	K4	13b.	Illustrate the types of RNA.
CO4	K4	14a.	Outline the composition of producer gas and Water gas.
			(OR)
CO4	K4	14b.	Explain the manufacturing process of Portland cement.
CO5	K5	15a.	Write note on Water borne diseases.
			(OR)
CO5	K5	15b.	Discuss about sulpha drugs and antibiotics with examples.

Course Outcome	Bloom's K-level	Q. No.	$\frac{\text{SECTION} - C}{\text{Answer ALL Questions choosing either (a) or (b)}}$
CO1	К3	16a.	Explain the general characteristics of aromatic compounds. (OR)
CO1	КЗ	16b.	Discuss the preparation and properties of naphthalene.
CO2	K4	17a.	Illustrate the following terms suitable a) Isotopes b) Isotones c) Isobars (OR)
CO2	K4	17b.	Analyse the application of radio isotopes.
CO3	K4	18a.	Classify the proteins based on composition and Solubility. (OR)
CO3	K4	18b.	Examine the structure of DNA.
CO4	K5	19a.	Assess the cleansing action of soap. (OR)
CO4	K5	19b.	Evaluate the uses of borosilicate's.
CO5	K5	20a.	Explain Hypoglycemia and hyperglycemia in detail. (OR)
CO5	K5	20b.	Summarise the importance of Indian medicinal plants.