

ADMISSION NUMBER

School of Medical and Allied Sciences

Bachelor of Pharmacy Semester End Examination - May 2024

Duration: 180 Minutes

Max Marks: 75

Sem VIII - BPQC8017 - Analyst Chemist-Quality Control: HPLC and UV

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	Illustrate the parameters to be considered while selection of HPLC analytical method.	K1 (2)
2)	Explain the handling of quality impacting incident.	K2 (2)
3)	Interpret Column used in HPLC.	K1 (2)
4)	Explain in detailed procedure for calibrating a UV-visible spectroscopy machine.	K2 (2)
5)	Define the term "Pump" used in HPLC.	K1 (2)
6)	Explain the types of cuvettes with their wavelength range for UV measurements.	K2 (2)
7)	Define the term "Injectors".	K1 (2)
8)	Explain the various reagents used for HPLC.	K2 (2)
9)	What are the role of Detector in HPLC.	K1 (2)
10)	Explain the importance of proper sample preparation procedures in ensuring accurate UV-visible spectroscopy analysis.	K2 (2)
11)	Organize & construct a flow chart on" Life science sector" & also expalin it.	K3 (5)
	OR	
	Ogranize & construct a flow chart with the term" Sub-Sectos in life science industry".	K3 (5)
12)	Contrast the various guidelines for weighing & measuring samples.	K4 (5)
13)	Identify the different types of breaches in environmental, health, safety, and security standards.	K3 (5)

K4 (5) 14) Compare and contrast the properties of different standards, solvents, and reagents used in laboratory settings. 15) Build a note on the role & types of detector. K3 (5) K4 (5) 16) Simplify & Construct schematic diagram of single and double beam spectrophotometer. OR Simplify the methods of recording test results using UV. K4 (5) K4 (5) 17) Analyze the different methods of calibrating UV-visible spectroscopy machines. K6 (10) 18) Estimate the properties of chemicals, reagents and standard solutions. K5 (10) 19) Explain the significance of SOP, GMP, GLP, 21CFR, and ALCOA Plus guidelines in Quality Control. **OR** Explain the rules laid by the Sexual Harassment of Women at K5 (10) Workplace Act with other workplace regulations.