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School of Medical and Allied Sciences

Bachelor of Pharmacy

Semester End Examination - Nov 2023

Duration : 180 Minutes

Max Marks : 75

Sem VII- BPHT7001- Instrumental Methods of AnalysisGeneral 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) Explain the advantage of TLC. K2 (2)
 - 2) Demonstrate the type of transition in bromoethene and ethenethiol. K2 (2)
 - 3) List the type of transition in buta-1,3-diene and ethenol. K1 (2)
 - 4) Demonstrate the type of material used for the preparation of stationary phase. K2 (2)
 - 5) List the type of transition in ethene and chloroethene. K1 (2)
 - 6) Explain the luminescence. K2 (2)
 - 7) List the types of column used in GC. K1 (2)
 - 8) Demonstrate the column properties used in the column chromatography. K2 (2)
 - 9) What is RP-HPLC? K1 (2)
 - 10) List the name of various derivatization reactions in GC. K1 (2)
 - 11) Identify the chromophore with examples. K3 (5)
- OR**
- Identify the applications and limitations of GC. K3 (5)
 - 12) Identify the detectors used in HPLC. K3 (5)
 - 13) Analyze the line diagram of spectrophotometer. K4 (5)
 - 14) Identify the detectors used in GC. K3 (5)
 - 15) Analyze the factors affecting fluorescence. K4 (5)
 - 16) Analyze the Beer and Lambert's law Derivation - Instrumentation of UV visible spectroscopy (5)
- OR**
- Analyze the solid sample preparation technique. K4 (5)
 - 17) Analyze the working and sample preparation of TEM. K4 (5)
 - 18) Discuss the separation procedures of gel chromatography. K6 (10)
 - 19) Evaluate the instrumentation of HPLC. K5 (10)
- OR**
- Explain the instrumentation and application of SEM. K5 (10)