

M.Sc.(Chem.) Semester - 2 (CBCS) Examination
March/April – 2025 (As Per Syllabus Year-2018)
Analytical Chemistry(CORE)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que-1(A) Answer the following question (04)**
(1) Define t-test.
(2) Find out the mean for given data.
8.887, 8.910, 8.271, 8.875, 8.877, 8.863, 8.865, 8.890, 8.851, 8.560.
- Que-1(B) Answer any two questions out of three. (10)**
(1) Explain accuracy and precision in detail.
(2) Write note on limit of detection and limit of quantification.
(3) Describe robustness with example.
- Que-2(A) Answer the following question (04)**
(1) Describe limit test for chloride with reaction.
- Que-2(B) Answer any two questions out of three. (10)**
(2) Write note on limit test for arsenic and lead.
(3) Explain dissolution test in detail.
(4) Describe method for loss on ignition.
- Que-3(A) Answer the following question (04)**
(1) Why we need green chemistry? Explain in detail.
- Que-3(B) Answer any two questions out of three (10)**
(1) Write twelve principles of green chemistry.
(2) Describe non-traditional greener alternative approaches.
(3) Give any two applications of non-conventional energy sources.
- Que-4(A) Answer the following question (04)**
(1) What is prior art?
(2) Give short introduction of trade mark.
- Que-4(B) Answer any two questions out of three. (10)**
(1) Explain patent infringement with example.
(2) Describe various IP rights.
(3) Write note on copyright with class.
- Que-5(A) Answer the following question (04)**
(1) Explain GOD and POD method in brief.
- Que-5(B) Answer any two questions out of three. (10)**
(2) Describe method for estimation of haemoglobin.
(3) Explain method for analysis of blood sugar.
(4) Describe any one test for identification of cholesterol.
