

M.Sc.(Chem.) Semester - 4 (CBCS) Examination**Oct/Nov -2020 [NEW COURSE]****Analysis of Selected Materials (Core)****Time: 2:00 Hours****Marks: 56****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any four of the following questions.
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- Q.1(A) Answer the following questions (04)
Write a note on antioxidants and its importance.
- Q.1(B) Answer any two questions out of three (10)
1. What are natural food additives? Discuss its importance.
2. How do preservatives work?
3. How do non nutritive sweeteners increase food intake?
- Q.2(A) Answer the following questions. (04)
How is milk quality tested?
- Q.2(B) Answer any two questions out of three (10)
1. What does an oil analysis tell you? Discuss one parameter in detail.
2. Explain: Cottonseed oil bad or good for human health.
3. What is mineral oil used for?
- Q.3(A) Answer the following questions (04)
How many vitamins are in the human body?
- Q.3(B) Answer any two questions out of three (10)
1. Why is phytochemical screening important? Explain with suitable examples.
2. What are flavonoids and what is their function?
3. Write a note on: Phenolic acids.
- Q.4(A) Answer the following questions (04)
What is the importance of soil analysis?
- Q.4(B) Answer any two questions out of three (10)
1. How do you test sodium and phosphorus in soil?
2. What are the preventive measures of water pollution?
3. How do you calculate BOD and COD in water?
- Q.5(A) Answer the following questions. (04)
Define terms: Fire point, Flash point, Pour point and Aniline point.
- Q.5(B) Answer any two questions out of three (10)
1. Explain: mineral oil good or bad?
2. How is petrol and diesel made?
3. Write a note on corrosiveness of Gasoline.
