

2021

INDUSTRIAL WATER POLLUTION CONTROL

Full Marks: 100


Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions out of six

1. a) Classify various water pollutants and also write their characteristics 10
b) Describe various types of water pollution. 10
2. Describe ETP and its treatment mechanism 20
3. a) How Industrial wastewater management is different from municipal wastewater management, describe 10
b) Discuss Industrial wastewater management in detail. 10
4. Write notes on:
 - a) Glass and ceramics 5
 - b) Nuclear power plant 5



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- c) Polymer 5
- d) Leather and Tannery 5
- 5 Write notes on energy industry and drug industry 10+10
- 6 Describe liquid waste management in detail 20

Total number of printed pages:3

PG/1st/PFET104

2021
**FOOD PRODUCT DEVELOPMENT AND
ENTREPRENEURSHIP**

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Group A

Answer any five questions.

- | | | | |
|----|----|--|---------|
| 1. | a) | What is the difference between product recall and product withdrawal? | 2 |
| | b) | Elaborate on cause-and-effect diagram, and explain how it can be used while brainstorming a new food product development idea. | 6 |
| | c) | What are the major two changes that drive new food product development? | 2 |
| 2. | a) | What is new food product development? Explain the two types of new food product development with example for each. | 2 + 4 |
| | a) | Define product traceability. What is its significance? | 2+2 = 4 |
| 3. | a) | Draw a schematic flow-diagram of the stage-gate process of new food product development, and appropriately label it. | 8 |
| | b) | What is ergonomics? Explain with an example. | 2 |
| 4. | | Elaborate on idea generation, including screening of | 10 |

the generated ideas, and their business feasibility.

5. Write short notes on any two of the following 5x2=10
- a) Cost of new food product development
 - b) Market research
 - c) Product launch

6. Describe in detail how a screened and finalized food product idea is commercialized, including testing for commercialization. 10

Group B

Answer any five questions.

7. Define Project. What are the different characteristics of a project? What is the role of a project manager? 10
8. What is PLC? Explain the different phases of a project life cycle? 10
9. What is the purpose of WBS? Explain WBS giving suitable example. 10
10. What is risk analysis? What is its significance in project management? What are the different factors attributing to risk and uncertainties of a project? 10
11. Write short notes on any two of the following 5x2=10
- a) Project Appraisal
 - b) PERT
 - c) Dummy Activity



12. Draw the network diagram and determine the critical path for the following project. 10

Activity	Time estimate (Weeks)
1-2	5
1-3	6
1-4	3
2-5	5
3-6	7
3-7	10
4-7	4
5-8	2
6-8	5
7-9	6
8-9	4

