Avinashilingam Institute for Home Science and Higher Education for Women
Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD (now MoE)
Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test II- April, 2025
Semester VI

Class : III UG **Time : 2 h**
Major : Chemistry **Max.Marks : 60**

21BCHC23 Industrial Chemistry

Course Outcomes
1. Knowledge on water analysis and treatment
2. Understanding of the stages involved in manufacture of paper and sugar
3. Ability to comprehend about different types of lubricants and their mechanistic action
4. Acquire in depth knowledge on industrial gases
5. Ability to gain awareness about the industrial wastes treatment processes

Part – A
Circle the correct answer **6 x 1 = 6**

1. Vinegar typically contains 5-8% of CO2 K1
   a. Citrus acid b. Hydrochloric acid
   c. Acetic acid d. None of the above
2. Aniline point is used to identify the type of CO3 K1
   a. Inorganic compound b. Hydrocarbon
   c. Heteroatom d. All the above
3. SI unit of viscosity CO3 K1
   a. Pascal-second b. Newton-hour
   c. Watt-hour d. None of the above
4. For, delicate instruments the suitable lubricants are _____ CO3 K3
   a. heavy cutting oil b. thin vegetable oil c. light cutting oil d. sunflower oil
5. Any substance used to reduce friction between surfaces is known as CO3 K2
   a. Lubricant b. Scale c. Sludge d. Composites
6. Black liquor produced from the Sulfate pulp production contains----------% of digested chemicals
   a. 60 b. 40 – 50 c. 75 d. 95-98% CO3 K2

Part B
Answer the following 3 x 6 = 18
Answer should not exceed 200 words or one page

7.a. Explain the manufacturing process of vinegar CO2 K2
(or)
7.b. Write short notes on solid lubricants CO3 K1

8.a. Differentiate between synthetic lubricant and greases CO3 K2
(or)
8.b. Enumerate on viscosity index and cloud point CO3 K2

9.a. What are the characteristics of industrial wastes CO5 K1
(or)
9.b. Discuss the principles of Industrial waste treatment CO5 K2

Part C **3 x 12 = 36**
Answer the following
Answer should not exceed 700 words or four pages

10. a. Write on recovery of sucrose from molasses. CO2 K2
(or)
10.b. Explain the following: i. fluid lubrication ii. Boundary lubrication CO3 K2
iii. Extreme pressure lubrication

11.a. Explain in detail about mechanism of lubrication CO3 K3
(or)
11.b. Write note on sanitary chemical analysis of industrial effluents and sewage CO3 K3
12.a. Enumerate the details of treatment and disposal of Industrial wastes CO5 K4
(or)
12.b. Elaborate on destructive and regenerative methods. CO5 K2

30 copies

Staff in Charge:
Dr. M. Amutha Selvi