

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai - 600 044.

B.Sc. Chemistry - END SEMESTER EXAMINATIONS APRIL - 2024

SEMESTER - VI

20UCHET6002- Industrial Chemistry

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. How are dyes classified, on the basis of their structure?
2. Explain octane and cetane number of liquid fuels.
3. Discuss any two method of sewage treatment.
4. Discuss the manufacture of soaps.
5. Elaborate on the fractional distillation of coal tar.
6. Predict the composition of water gas, carburettedwatergas and producer Gas.
7. Interpret the methods of analysis of water.
8. Justify the mechanism of the cleansing action of soap.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Illustrate the preparation and uses of luorescein, Indigo and Malachite green.
10. Write a note on phosphoric acid fuel cell and Molten carbonate fuel cell.
11. Discuss the occurrence and distillation of crude petroleum.
12. Enumerate the sterilisation methods in water treatment.
13. a) Determine the saponification value of soap.
b) Justify the superiority of detergents over soaps.
