

**Examination December – 2020**  
**B.Sc. Semester – V**  
**Industrial Chemistry: Paper – ICHCC – 504, Code: 21509**  
**Subject Title: Petroleum Industries**

**Time: 1.30 hr**

**Total Marks: 42**

- |       |        |   |      |
|-------|--------|---|------|
| Que.1 | (A)    | Give detailed account on chloromethanes.(with flow sheet)                                       | [14] |
| OR    |        |   |      |
| Que.1 | (A-I)  | Explain chemical reaction, properties and application of acetylene and perchloroethylene.       | [07] |
|       | (A-II) | How methanol is industrially produced?  | [07] |
| Que.2 | (A)    | What is petroleum and petrochemicals? Discuss fractional distillation of crude oil with figure. | [14] |
| OR    |        |   |      |
| Que.2 | (A-I)  | How Vinyl acetate is industrially produced?   | [07] |
|       | (A-II) | Give chemical reaction, properties and application of ethanol and diethanol amine.              | [07] |
| Que.3 | (A)    | How polypropylene is produced industrially from propylene?(with flow sheet diagram)             | [14] |
| OR    |        |   |      |
| Que.3 | (A-I)  | Give detail account on the production of acetone.   | [07] |
|       | (A-II) | Explain chemical reaction, properties and application of propylene and phenol.                  | [07] |
| Que.4 | (A)    | How butadiene is Industrially produced?(with flow sheet diagram)                                | [14] |
| OR    |        |   |      |
| Que.4 | (A-I)  | Elaborate the production of phthalic ahydride   | [07] |
|       | (A-II) | Give chemical reaction, properties and application of DDT and butyl acetate.                    | [07] |

નોંધ:

- પ્રશ્નપત્રનો સમય ૧.૩૦ કલાકનો રહેશે.
- પ્રશ્નપત્રમાં ૪ પ્રશ્નોમાંથી કોઈ પણ ત્રણ પ્રશ્નોના જવાબ આપવાનો રહેશે.
- દરેક પ્રશ્નના ગુણ એકસરખા (૧૪ માર્ક્સના) રહેશે. પ્રશ્નપત્ર કુલ ૪૨ માર્ક્સ નું રહેશે.