

required for saponification. Calculate the saponification value for the same.

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| Q-4 | Attempt all questions | (14) |
| a. | Define alkylation and Discuss about it with at least one example. | 05 |
| b. | Write a note on sources of hydrogen. | 05 |
| c. | Write a note on Terpeneols | 04 |
| Q-5 | Attempt all questions | (14) |
| a. | Write a note on Nitro Musks. | 07 |
| b. | Discuss properties of oil and fats and difference between them. | 07 |
| Q-6 | Attempt all questions | (14) |
| a. | Explain any two manufacturing methods of hydrogen. | 07 |
| b. | Write a manufacture of oxygen and nitrogen by any one method. | 07 |
| Q-7 | Attempt all questions | (14) |
| a. | Write a note on acetylene gas. | 07 |
| b. | Explain industrial manufacturing process of organic synthesis of methanol. | 07 |
| Q-8 | Attempt all questions | (14) |
| a. | Write a note on Industrial synthesis of Acetic acid. | 07 |
| b. | What is Petrochemical? Discuss the manufacturing process of Acetone and Propenone. | 07 |

