

School of Basic and Applied Sciences

Chemistry
ETE - May 2023

Time : 3 Hours

Marks : 50

SEM IV - MSCH6003 - CHEMISTRY OF NATURAL PRODUCTS AND RETROSYNTHESIS

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

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| 1. | What is Structure of camphoronic acid? | K2 CO1 (2) |
| 2. | Illustrate Herzig-Meyer Method. | K2 CO2 (2) |
| 3. | Identify Structure of cholesterol | K3 CO3 (2) |
| 4. | Identify Structure of quercetin. | K3 CO4 (2) |
| 5. | Examine Synthesis of diels hydrocarbon. | K4 CO5 (2) |
| 6. | Examine various reactions to find the structure of camphoric and camphoronic acid. | K3 CO1 (5) |
| 7. | Classify alkaloids | K4 CO2 (5) |
| 8. | Determine the presence of methylene dioxy group and carbonyl groups in alkaloids. | K6 CO5 (6) |
| 9. | Explain the complete structure determination of cholesterol. | K4 CO3 (8) |
| 10. | Determine the Biosynthesis of flavonoids | K4 CO4 (8) |
| 11. | Compile the steps for the synthesis of quinine | K5 CO5 (8) |