

B.Sc. SEM-VI Gen. Practical Examination-2021

Gurudas College Centre

Paper: DSE B-1

Full Marks-30

Answer any six of the following questions:

6×5=30

1. Write down the Diels-Alder reaction between furan and maleic anhydride in aqueous medium. Calculate the % atom economy of this reaction. 2+3
2. Does IR spectra of biodiesel give any information? Write down the procedure and reaction of preparation of biodiesel from vegetable oil. 2+3
3. Why is photoreduction of benzophenone a green reaction? Write down the reaction with plausible mechanism. 2+3
4. Write down the reaction of benzopinacol with iodine in glacial acetic acid. Calculate the percentage of yield if 2.5 g benzopinacol gives 1.9 g product. 2+3
5. Write down the reaction and procedure of benzil benzilic acid rearrangement. 2+3
6. Write down the reaction and procedure for the green synthesis of benzoin from benzaldehyde. 2+3
7. Which materials are required for the preparation of nanoparticles of gold using tea leaves? Write down the procedure. 2+3
8. Discuss the uses of d-limonene. How is it collected in laboratory? 2+3
9. Write down the reaction and procedure of bromination of *trans*-stilbene using bromide bromate mixture. 2+3
10. Why is thiamine hydrochloride used for benzoin condensation instead of potassium cyanide? Calculate the amount of benzopinacol in gm if photoreduction of 2.5 g benzophenone gives 98% benzopinacol. 2+3