

Gurudas College
Department of Chemistry
Internal Assessment Examination-2021
SEM-VI
Paper: CEMG DSE-B1

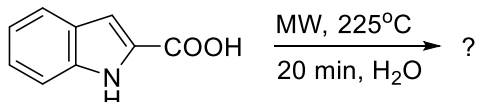
(Green chemistry and chemistry of natural products)

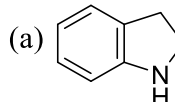
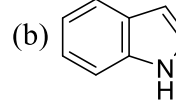
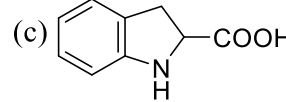
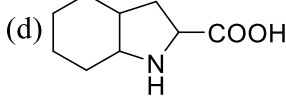
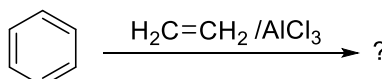
Time: 30 Minutes

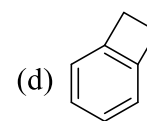
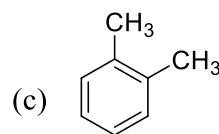
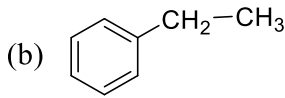
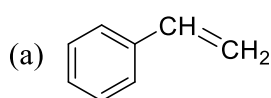
Full Marks: 10

Answer any ten questions:

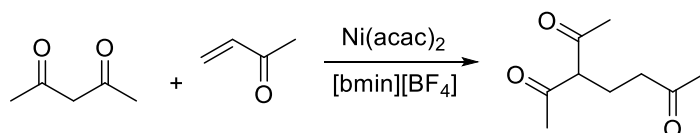
10×1=10

- Which metal is responsible for minimata disease?
 (a) Mercury (b) Lead (c) Cadmium (d) Arsenic
- Which chemical is responsible for Bhopal tragedy?
 (a) DDT (b) MIC (c) TCDD (d) cyclohexanone
- Which of the following is correct for percent atom economy?
 (a) $\frac{\text{Actual yield of the product}}{\text{Theoriical yield of the product}} \times 100$ (b) $\frac{\text{MW of desired product}}{\text{MW of desired product} + \text{MW of waste products}} \times 100$
 (c) $\frac{\text{FW of atoms utilized}}{\text{FW of reactants used in the reaction}} \times 100$ (d) None of these
- Which of the following compounds is used for the green synthesis of adipic acid?
 (a) Benzene (b) Cyclohexane (c) Glucose (d) Mannitol
- What is the desired product of the following reaction?


 (a)  (b)  (c)  (d) 
- The reaction of a nitroalkane with an aldehyde in presence of base is called
 (a) Henry Reaction (b) Simmons-Smith Reaction
 (b) Diels Alder Reaction (d) Friedel-Crafts Reaction
- Write the desired product of the following reaction.


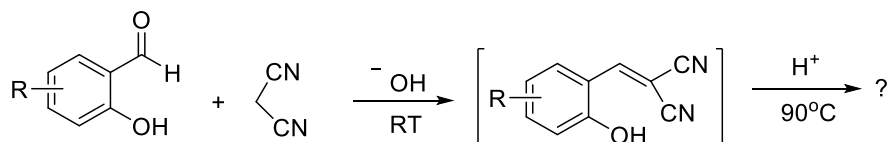


8. The following reaction is an example of



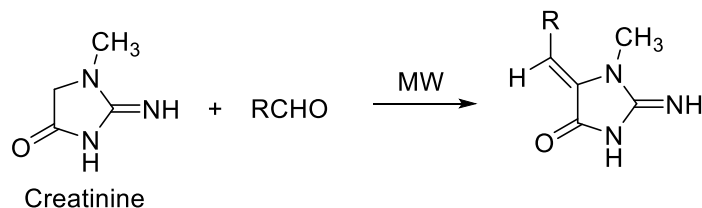
- (a) Aldol condensation (b) Friedel-Crafts reaction
(c) Michael addition in solid state (d) Michael addition in ionic liquids

9. What is the product of the following reaction?



- (a) (b)
(c) (d)

10. The following reaction is an example of



- (a) Knoevenagel Condensation in Ionic Liquids (b) Michael addition
(c) Knoevenagel Condensation in Solid State (d) Cannizzaro reaction

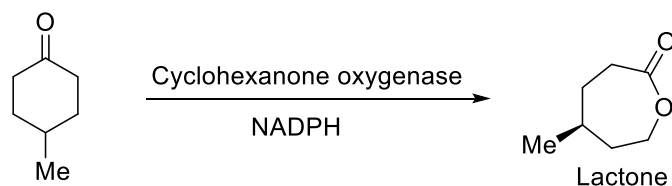
11. Which catalyst is used for the green synthesis of benzoin?

- (a) KCN (b) NaCN
(c) AlCl_3 (d) 3-benzyl-4-methyl thiazolium chloride

12. Which reaction gives a cyclic β -ketoester from a diester of C_6 and C_7 dibasic acid?

- (a) Cannizzaro reaction (b) Dieckmann condensation
(c) Fries rearrangement (d) Knoevenagel condensation

13. The following reaction is an example of



- 4-Methyl cyclohexanone Lactone
(a) Baeyer-Villiger oxidation (b) Beckmann rearrangement
(c) Claisen rearrangement (d) Fries rearrangement

14. What is the basic principle of combinatorial chemistry?
- (a) Using reagent in stoichiometric amounts
 - (b) Using a catalyst
 - (c) Making a large number of compounds rapidly on a small scale in a small reaction cell
 - (d) None of these
15. What is the molecular formula of most natural terpenoids hydrocarbons?
- (a) $(C_2H_4)_n$ (b) $(C_3H_6)_n$ (c) $(C_4H_7)_n$ (d) $(C_5H_8)_n$