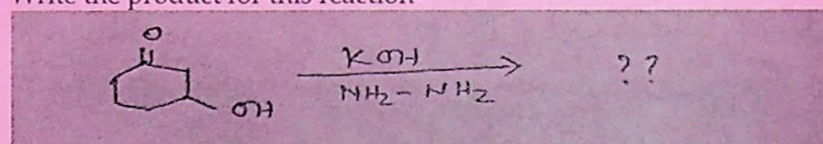
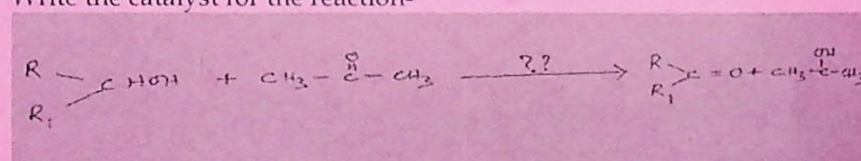


9. Enantiomers have, EXCEPT
- | | |
|--|-------------------------------|
| a Similar physical properties | b Similar chemical properties |
| c Differ only through plane of polarized light | d None of the above |
10. Exposure of Pyrrole to air, the colour turns to-
- | | |
|----------|---------------|
| a Green | b Brown |
| c Yellow | d Colour less |

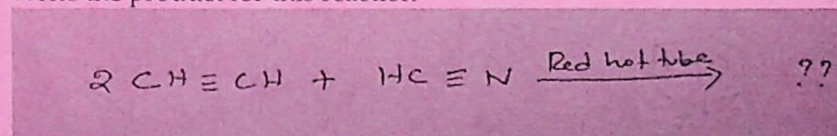
11. Write the product for this reaction-



- | | |
|---------------------|---------------------|
| a Hexahydro phenol | b Dihydro phenol |
| c Tetrahydro phenol | d None of the above |
12. Catechol forms when O-hydroxy benzaldehydes reacts with H_2O_2 . This reaction is known as-
- | | |
|------------------------|----------------------|
| a Clemmensen Reduction | b Opaaneur Oxidation |
| c Dakin Reaction | d Birch Reduction |
13. Write the product for this reaction-Urea + Malonic Acid=?
- | | |
|--------------|----------------|
| a Quinoline | b Isoquinoline |
| c Pyrimidine | d Acridine |
14. Reduction of Isoquinoline with Sn/HCl will give-
- | | |
|---------------------------|--------------------------|
| a Tetrahydro Isoquinoline | b Decahydro Isoquinoline |
| c Dihydro Isoquinoline | d Both a & b |
15. Write the catalyst for the reaction-



- | | |
|-------------------------------|--------------------------------|
| a Aluminium tertiary butoxide | b Aluminium Secondary butoxide |
| c Aluminium Primary butoxide | d None of the above |
16. Write the product for this reaction-



- | | |
|-------------|-------------|
| a Pyridine | b Pyrrole |
| c Thiophene | d Phenytoin |
17. Reaction of aniline with 2-phenacyl bromide will give-
- | | |
|-------------------|---------------------|
| a 4-Phenyl indole | b 2-phenyl indole |
| c Indole | d None of the above |

18. Vinblastine contains which structure?

- a Quinoline
- c Indole

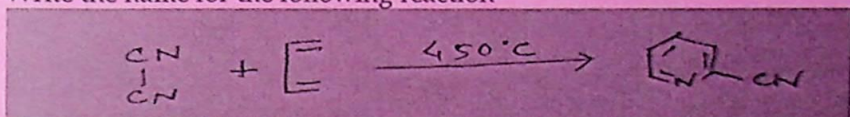
- b Isoquinoline
- d None of the above

19. Traube's method used to synthesise

- a Purine
- c Indole

- b Isoquinoline
- d None of the above

20. Write the name for the following reaction-



- a Diel's-elder reaction
- c Traube's method

- b Reimmer reaction
- d None of the above

(PART-B : Descriptive)

Time: 1 hr. 40 minutes

Marks : 35

[*Answer any seven (7)*]

1. Name the reaction & mechanism for the following reaction-
When aromatic aldehyde reacts with aliphatic aldehyde, they form alpha-beta-unsaturated aldehydes. 5
2. MOA of Clemmensen reduction. 5
3. Name the products of the following reaction - 5
 - a) Reimer tiemann reaction
 - b) Bischler synthesis
 - c) Pomeranz synthesis
 - d) Diels'elder reaction
 - e) Traube's method
4. How enantiomers and diastereoisomers are different? 5
5. Write the importance of - 2.5+2.5=5
 - a) Pyrrole
 - b) Indole
6. MOA of Oppenauer oxidation 5
7. Write a short note on stereochemistry. 5
8. Draw the structure of the following compounds- 5
 - a) Oxetane
 - b) Piperidine
 - c) Benzofuran
 - d) Imidazole
 - e) Purine
9. MOA of Oppenauer oxidation. 5

Time : 1 Hr.

Marks : 20

[*Answer any two (2)*]

1. How Quinoline is different from Isoquinoline? Write two syntheses of Isoquinoline. Give a note on the electrophilic substitution reactions of Isoquinoline. 2+5+3=10
2. How Furan is different from Thiophene? Write two syntheses of Furan. Give a note on the different substitution reactions of Furan. 2+5+3=10
3. Write down two syntheses of Purine & their medicinal importance. 5+5=10

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