

Code No: 54061

Set No. 1

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**II B.Tech. II Sem., II Mid-Term Examinations, April – 2014**

**ORGANIC CHEMISTRY**

**Objective Exam**

Name: \_\_\_\_\_ Hall Ticket No. 

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**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I Choose the correct alternative:**

1. Which of the following is weakly acidic [     ]  
A) pyrrole                      B) thiophene                      C) furan                      D) Pyrroledine
2. Tri and tetra substituted ethylene should also show geometric isomerism provided each double bond carries non-identical atoms/ groups. This is represented by \_\_\_\_\_ [     ]  
A) optical isomerism   B) functional isomerism   C) Z,E-conformers   D) chain isomerism
3. In polarimeter, the nicol prism is made up of \_\_\_\_ [     ]  
A) calcium carbonate   B) calcium sulphate   C) calcium chloride   D) Calcite.
4. Pyrrole is extremely reactive towards [     ]  
A) nucleophiles              B) electrophiles              C) bases                      D) radicals
5. Tetrahydrofuran is produced by [     ]  
A) oxidation of furan   B) reduction of furan   C) reaction with oxygen   D) mercuration of furan
6. According to Witt's azobenzene is a [     ]  
A) chromophore              B) chromogen                      C) auxochrome                      D) base
7. In Friedlander synthesis, the starting material for the synthesis of quinoline is [     ]  
A) o-aminoacetophenone   B) o-dinitro benzene   C) 1,4 diketone   D) All
8. In a double bonded carbon atom, if two similar groups are arranged on opposite sides then it is called \_\_\_\_\_ form [     ]  
A) R                              B) S                              C) E                              D) Z
9. Vulcanization is the process of [     ]  
A) Heating raw rubber with N<sub>2</sub>                      B) Condensation of monomers  
C) Heating rubber with sulphur                      D) Sulfonation
10. Which of the following shows position isomerism [     ]  
A) n-propyl iodide and isopropyl iodide                      B) diethyl ether and dimethyl ether  
C) n- butane and iso butane                                      D) N- Pentane, neo- pentane

**Cont.....2**

**II Fill in the blanks:**

11. \_\_\_\_\_ dye is used in boot polish
12. The compound containing chromophore is called \_\_\_\_\_
13. Bakelite is prepared by the condensation of \_\_\_\_\_
14. Flouroscene is prepared by heating pthalic anhydride with \_\_\_\_\_
15. Thermolysis of 1,4-butendiol in the presence of palladium gives the product A. A on treatment with primary amine forms B. B is \_\_\_\_\_
16. \_\_\_\_\_ heterocyclic compound undergoes Diel's Alder reaction
17. Congo red is an example of \_\_\_\_\_ dye
18. Mordant dyes have \_\_\_\_\_ affinity for the fabric
19. Highly vulcanized rubber is called \_\_\_\_\_
20. What is the general name of synthetic polymers containing  $R_2SiO$  as repeat units \_\_\_\_\_

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A) pyrrole      B) thiophene      C) furan      D) Pyrroledine
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10. In polarimeter, the nicol prism is made up of \_\_\_\_\_ [      ]  
A) calcium carbonate      B) calcium sulphate      C) calcium chloride      D) Calcite.

Cont.....2

**II Fill in the blanks:**

11. Flouroscene is prepared by heating pthalic anhydride with \_\_\_\_\_
12. Thermolysis of 1,4-butendiol in the presence of palladium gives the product A. A on treatment with primary amine forms B. B is \_\_\_\_\_
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