TB153110A **Reg. No.....**

Name.....

B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2016

SEMESTER III - COMPLEMENTARY COURSE (CHEMISTRY)

CH3C03TB - BASIC ORGANIC CHEMISTRY

(For Botany, Zoology & Home Science)

Time: Three Hours **Maximum Marks: 60**

PART A

Short answer questions

I. Answer all questions. Each question carries 1 mark

1. Name a narcotic analgesic
2. Free radicals are produced by …… fission
3. Give the structural formula of 1-Bromo -3-chloropropane
4. The monomer in polythene is……..
5. Benzol is obtained during the fractional distillation of ……. oil

(5x1=5)

PART B

Brief answer questions

II. Answer any five questions. Each question carries 2 marks

6. What are antihistamines?
7. Why allyl carbocation more stable than ethyl carbocation?
8. What are co-polymers? Give one example
9. Differentiate between washing soaps and toilet soaps
10. How is Bakelite prepared? Write the equation
11. What is an antiknock compound?
12. What are enantiomers? Explain with example
13. Explain the term octane number

(5X2=10)

PART C

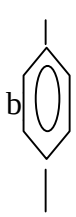
Descriptive / Short essay questions.

III. Answer any five questions. Each question carries 5 marks

14. Explain thermosetting and thermoplastics with examples
15. What are the different types of soaps? Briefly discuss the cleansing action of soap
16. Write a note on non-biodegradable polymers and related environmental hazards.
17. Discuss the rule and mechanism involved when HBr is added to propene in presence of peroxide
18. Write the IUPAC name of the following

a). CH_3-CH-CH-CH_2-CH-CH_3

CH_3 CH_3 CH_3

b 

c). $HOCH_2CH_2COOH$ – 3-Hydroxypropanoic acid

d). 3 methyl pentane 

19. What are detergents? Explain different types of detergents with example

20. Explain the Bergius process

(5x5=25)

PART D

Long essay type questions

IV. Answer any two questions. Each question carries 10 marks

21. What are electrophilic aromatic substitution reactions? Explain the mechanism of nitration of benzene to nitrobenzene
22. Write a note on natural and synthetic rubbers
23. Short notes on

    a) Antibiotics b) Tranquilizers
    c) Toxicology of cosmetics d) Industrial application of cellulose
24. Discuss briefly on the E and Z system of naming a pair of geometrical isomers. What are the advantages of E-Z system over conventional, cis trans isomerism

(2x 10=20)