S.NO. 364 BATCH: 87 - 2008, 10, 11 Reg.No.

END OF SEMESTER EXAMINATIONS, NOVEMBER – 2012
GENERAL CHEMISTRY-II
SUBJECT CODE: 10UACH02

MAJOR: B.Sc. CHEMISTRY SEMESTER : II
TIME : 3 HOURS MAX.MARKS: 75

SECTION-A (10 X 1 = 10)

Answer all questions:

1. What are interhalogens?
2. Why are rare gases unreactive?
3. What is oleum?
4. How is sodium acetylide obtained?
5. State 'Sayetzeff's rule
6. Differentiate substitution reactions from elimination reactions
7. What is entropy?
8. Write down the Gibbs-Helmholtz equation.
9. Give any two examples for input devices
10. What do you mean by a joystick?

SECTION-B (5 X 4 = 20)

Answer all questions:

11. a) Indicate at least four uses of inert gases
(OR)
b) How are the following prepared? (2 + 2 = 4)
i) Ozone and ii) Hydrogen peroxide

12. a) What is Ozonolysis? Explain
(OR)
b) Describe the Hydroboration.

13. a) Give the various resonating structures of anthracene
(OR)
b) Write a note on neighbouring group Participation

14. a) Write a note on the free energy concept.
(OR)
b) State any two different statements of second law of thermodynamics

15. a) Draw any flowchart symbols, along with their meanings.
(OR)
b) Write an account of "LINUX".

SECTION-C (5 X 9 = 45)

Answer all questions:

16. a) Give a detailed account of interhalogen compounds
(OR)
b) Write an explanatory note on the per acids of sulphur

17. a) Explain in detail the resonance phenomenon in benzene
(OR)
b) Describe the
i) addition of water to alkynes
ii) acidity of alkynes
iii) nitration of benzene

18. a) Describe the relative reactivities of different halides towards substitution
(OR)
b) Give an account of aromatic nucleophilic substitution, with suitable examples.

19. a) Describe the Maxwall's relationships
(OR)
b) Give an account of entropy of mixing of ideal gases.

20. a) Write a note on i) Algorithm
ii) Programming languages
(OR)
b) What are hard wares and soft wares? Explain.

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