



Reg. No. :

Name :

Second Semester B.Sc. Degree Examination, July 2015
First Degree Programme under CBCSS
CHEMISTRY
Foundation Course – II
CH 1221 : Methodology and Perspectives of Sciences and General
Informatics
(2013 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** questions. Answer in **one** word or maximum of **two** sentences. **Each** question carries **one** mark.

1. Name the branch of chemistry which encourage the design of experiments which reduce or eliminate the use of hazardous chemicals.
2. Who proposed the periodic law of elements for the first time ?
3. How many byte in one kilo byte ?
4. Give an example of a presentation software.
5. Write the SMILE notation of methane.
6. What is variance ?
7. Which network under UGC is involved in modernising university libraries ?
8. Give an example of a chemistry software under RISC.
9. Who proposed the law of conservation of mass ?
10. What does PDB stands for ?

(10×1=10 Marks)



SECTION – B

Answer **any 8** questions from the following. **Each** question carries **2** marks.

11. What is the difference between precision and accuracy of an experiment ?
12. Mention some sources of primary data.
13. What do you mean by supra molecular chemistry ?
14. Write two defects of Rutherford' model of atom.
15. What is the difference between RAM and ROM ?
16. What do you mean by operating system in a computer ?
17. Explain the term plagiarism.
18. What do you mean by sampling ?
19. What is the difference between mean deviation and standard deviation in an experiment ?
20. What is histogram ?
21. Write the name of two major international publishers in chemistry.
22. Mention the name of two structure drawing softwares in chemistry.

(8×2=16 Marks)

SECTION – C

Answer **any 6** questions. **Each** question carries **4** marks.

23. What are primary and secondary data ?
24. Explain laws, hypothesis, postulate and assumption in science.
25. Write the SI units of seven base units used in chemistry.
26. Explain inductive and deductive methods used in chemistry.
27. Discuss briefly the major contributions of Friedrich Wohles to modern chemistry.
28. What are the functions of an operating system ?



29. How network classified on the basis of physical scope ?

30. Explain the terms copy right and patent.

31. Write a note on virtual lab.

(6×4=24 Marks)

SECTION – D

Answer **any 2** questions. **Each** question carries **15** marks.

32. Discuss briefly the documentation of results in an experiment.

33. Write a note on history, scope and applications of chem informatics.

34. Explain the use of IT in teaching and learning.

35. Write briefly on various branches of chemistry and show the role of chemistry as a central science connecting other branches of science. **(2×15=30 Marks)**
