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Reg. No. : .....

Name : .....

Second Semester B.Sc. Degree Examination, July 2014
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

All Saints' College Trivandrum

SECTION – A

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

1. What is Postulate ?
2. How many byte in one Kilobyte ?
3. Who synthesised the first organic compound in the laboratory ?
4. What is the difference between LAN and WAN ?
5. Give an example of an operating system used in a computer.
6. What is NICNET ?
7. What is sampling ?
8. Write the SMILE notation of ethyl alcohol.
9. Give an example of a presentation software.
10. Write one drawback of Rutherford model of atom. **(10×1=10 Marks)**

P.T.O.

SECTION – B

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

11. What is a Scientific law ?
12. What are the difference between primary data and secondary data is an experim
13. Explain the term plagiarism.
14. Differentiate between research method and methodology.
15. What is alchemy ?
16. Write the major contributions of Antoine Lavon'ser to chemistry.
17. What do you mean by domain name in internet ?
18. Name any two search engines used in IT.
19. What is the difference between Mean and Mode ?
20. Explain Pie diagram.
21. Name two important chemical data bases.
22. What is SD file ?

(8×2=16

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SECTION – C

Answer **any 6** questions from the following. **Each** question carries **4** marks.

23. What are the advantages of virtual models in chemistry ?
24. Discuss the different steps involved in a scientific method of investigation.
25. Differentiate between inductive and deductive methods in research.
26. What do you mean by process and product of science ?
27. Briefly narrate the contributions of Robert Boyle to modern chemistry.
28. What is the difference between RAM and ROM in computer ?
29. What do you mean by IP (Internet Protocol) and IP address ?

30. Explain precision and accuracy.

31. Write the basic rules used in SMILES to convert a structure into a character string.

(6×4=24 Marks)

SECTION – D

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

32. a) What is hypothesis ?

    b) Which are the different forms of hypothesis ?

    c) Discuss the characteristics of hypothesis.

33. What is INFLIBNET ? What are its aims and functions ?

34. Write note on:

    a) Copy Right

    b) Patent and patent laws in India.

35. a) Discuss primary and secondary sources in scientific information .

    b) What are the advantages of digital libraries ?

(2×15=30 Marks)

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