# M.Sc. 4th Semester Examination, 2021 <br> CHEMISTRY <br> (Computer Application in Chemistry Practical) <br> <br> Paper: CHEM 404C (PR) <br> <br> Paper: CHEM 404C (PR) <br> Course ID: 41464 

## Time: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

1. Answer any ten of the following questions:
$1 \times 10=10$
a) Which of the following is the first calculating device?
2. Abacus
3. Calculator
4. Turing Machine
5. Pascaline
b) Who invented mechanical calculator called Pascaline?
6. Charles Babbage
7. Blaise Pascal
8. Alan Turing
9. Lee De Forest
c) Who among the following considered as the 'father of artificial intelligence'?
10. Charles Babbage
11. Lee De Forest
12. John McCarthy
13. JP Eckert
d) Which was the world's first successful electronic computer?
14. PARAM
15. CRAY-1
16. Pascaline
17. ENIAC electronic numerical integrator and computer
e) Who among the following used the term computer word for the first time?
18. John Brunner
19. Alan Turing
20. John McCarthy
21. JP Eckert
f) Which was first virus detected on ARPANET, the forerunner of the internet in the early 1970s?
22. Exe file
23. Creeper Virus
24. Peeper Virus
25. Trozen Virus
g) Find out the correct definition of Wide Area Network (WAN) -
26. It is a programming language with strong abstraction from the details of the computer.
27. It is a collection of computers interconnected with each other through cables to share data, information and other common hardware resources.
28. A computer network that covers a broad area (any network, whose communication links cross metropolitan, regional or national boundaries).
29. A computer network covering a small physical area like a home, office or small groups of buildings, such as a school or an airport.
h) Select the application software of computer from the following,
30. MS Word
31. MS Excel
32. Both A \& B
33. MS DOS.
i) Which of the following is also called translator?
34. Data representation
35. MS DOS
36. Operating System
37. Language Processor
j) How the quality of printer is measured?
38. Alphabet per strike
39. Words per inch
40. Strike per inch
41. Dots per inch
k) A Computer cannot boot if it does not have the $\qquad$
42. Compiler
43. Loader
44. Operating system
45. Assembler
1) Where is RAM located?
1. Mother board
2. Expansion board
3. External Drive
4. None
m ) Which of the following is a popular programming language for developing multimedia webpages
5. COBOL
6. Java
7. BASIC
8. Assembler
n) USB is which type of storage device?
9. Tertiary
10. Secondary
11. Primary
12. Auxillary
13. Answer any ten of the following questions:
$1 \times 10=10$
a) Who invented Java?
b) What is the expansion of COBOL?
c) What do you mean by the term scareware?
d) What is the name of super computer developed in India?
e) Mention the name of software to insert references for your research article.
f) Write down the full form of IP.
g) What is the full form of PDF?
h) Write down the full forms of RAM \& ROM.
i) Mention the name of first commercially available computer.
j) Who developed electronic mail for the first time?
k) Write down the name of first completely 64-bit compatible version of Android.
1) Which motherboard form factor uses one 20 pin connector?
$\mathrm{m})$ What is the smallest unit in a digital system?
n) Microprocessors as switching devices are for which generation computers?
3. Answer any four of the following questions:

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5 \times 4=20
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a) Write a C-programme to print the numbers between 10 and 50 except the multiples of five.
b) Write a C-programme to check a given year is leap-year or not.
c) Write a C-programme to print the upper triangle of a matrix.
d) Write a C-programme to input and print a matrix.
e) Write a C-programme to make the multiplication table of a given integer.
f) Write a programme to print the even numbers between given two numbers.

