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Name	

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, NOVEMBER 2013

First Semester

Vocational Course-COMPUTER FUNDAMENTALS

(For Model II B.Sc. Mathematics)

[2013 Admissions]

Time: Three Hours

Maximum: 80 Marks

Part A

Answer all questions. 1 mark each.

- 1. What is data processing?
- 2. Define system.
- 3. What is meant by non-positional number system?
- 4. What is auxiliary memory?
- 5. What is microcode?
- 6. What is meant by community-supported software?
- 7. What is the use of repeaters?
- 8. What is multiplexing?
- 9. What is bandwidth?
- 10. What is word processing?

 $(10 \times 1 = 10)$

Part B

Answer any eight questions. 2 marks each.

- 11. What are the encoding forms used in unicode?
- 12. What is collating sequence?
- 13. Write a note on BCD code.
- 14. What are the characteristics of data scanning devices?
- Distinguish between IRG and IBG.
- 16. What are the applications of speech recognition systems?
- 17. Describe the different steps in the development of a software package.

Turn over

- 18. What is the relationship between hardware and software?
- 19. What are the uses of a spreadsheet package?
- 20. What are the different modes of data transmission?
- 21. What is VAN?
- 22. What are the different forms of modulation?

 $(8 \times 2 = 16)$

Part C

Answer any six questions. 4 marks each.

- 23. What are the features of Unicode?
- 24. Perform the following conversions:
 - (a) 11010.11, to decimal.
- (b) 8A6₁₆ to binary.
- (c) 731g to hexadecimal.
- (d) 7102₁₀ to hexadecimal.
- 25. What are the basic operations performed by a computer?
- 26. What are the different types of primary memories?
- Draw a flowchart to display the average mark of a student in different subjects.
- 28. What are the different types of softwares?
- 29. Discuss the different network topologies.
- 30. What are the commonly used utility programs?
- 31. Describe the functions of a communication protocol.

 $(6 \times 4 = 24)$

Part D

Answer any two questions. 15 marks each.

- 32. What are the direct access devices used in a Computer ?
- 33. Describe the evolution of computers.
- 34. Discuss the different services provided by the Internet.
- 35. (a) Distinguish between compiler and interpreter.
 - (b) What are the advantages and limitations of high level languages?

 $(2 \times 15 = 30)$