E 2553 (Pages : 3) Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, NOVEMBER 2011

First Semester

Vocational Course—Computer Science

COMPUTER FUNDAMENTALS

(For Model—II B.Sc. Mathematics)

Time : Three Hours Maximum Weight : 25

Part A

Answer **all** *questions in this part.*
Each bunch of four questions carries weight 1.

I. 1. A data stored in memory can be accessed throught ———.

(a) Data bus. (b) Address bus.

(c) LAN. (d) ALU.

2. Which among the following is not an I/O device.

(a) Printer. (b) Ploater.

(c) Accumulator. (d) None of these.

3. The basic form of a computer was actually a ———.

(a) Assembler. (b) Calculator.

(c) Printer. (d) None of these.

4. The base value of hexadecimal system is :

(a) 16. (b) 8.

(c) 10. (d) 2.

II. 5. The Gray code value 0010 corresponds to decimal ———.

(a) 2. (b) 1.

(c) 10. (d) 3.

6. Which among the following is a high level language ?

(a) FORTRAN. (b) WINDOWS.

(c) LINUX. (d) OS/2.

7. One Megabyte is equivalent to ——— bits.

(a) 100 KB. (b) 1000 KB.

(c) 1024 KB. (d) 1056 KB

Turn over

8. Register in the CPU is a ———.

(a) I/O device. (b) Used to produce interrupts.

(c) Temporary storage device. (d) None of these.

III. 9. Nibble is ———.

(a) 2 bits. (b) Same as byte.

(c) 8 bits. (d) 4 bits.

10. For networking between the computers in a room ——— is used.

(a) LAN. (b) WAN.

(c) MAN. (d) FDDI.

11. In a flowchart a rhombus represents :

(a) Decision. (b) Connector.

(c) Terminal. (d) Process.

12. Machine code is generated from a programming language by ———.

(a) Assembler. (b) Compiler.

(c) Operating system. (d) None of these.

IV. 13. HTTP is ———.

14. A ——— is example for a secondary storage device.

15. A flowchart will terminate in ——— symbol.

16. A ——— is an optical storage device.

(4 × 1 = 4)

Part B

Answer any **five**, *use weight* 1 *each.*

17. Why we use secondary storage devices ?

18. What is an assembler ?

19. Compare LAN and WAN.

20. What is ROM ?

21. What is a communication protocol ?

22. How will you convert a hexadecimal number to decimal ?

23. What is the use of a Flow Chart ?

24. Write the names of different bus units.

(5 × 1 = 5)

Part C

Answer any **four**, *weight* 2 *each.*

25. Compare internet with intranet.
26. Write a short note about 3rd generation computers.
27. What is a high level language.
28. What is the function of a control unit in a computer ?
29. Enumerate different types of memories.
30. Convert $(AF\ 26)_{16}$ to Binary.

(4 × 2 =8)

Part D

Answer any **two**, *weight* 4 *each.*

31. Write short notes on :
    (a) WAN. (b) Floppy disk.
32. Discuss how the CPU of a computer works with the help of a block diagram.
33. Discuss various stages in software development with an example.

(2 × 4 = 8)