

Mid-West University
Examinations Management Office
End Semester Examination 2081

Bachelor level/ B. Sc./3rd Semester

Time: 3 hours

Subject: Computer Fundamentals (CS337)

Full Marks: 100

Pass Marks: 50

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

Group A

Very short answer questions (attempt all)

[7x2 = 14]

1. Define computer with basic block diagram.
2. Why do you need computer network?
3. Define wavelength.
4. Define virus.
5. What is the use of presentation software?
6. What are the main characteristics that you consider while purchasing a computer?
7. What is the difference between Internet and Intranet?

Group B

Short answer questions (attempt any ten)

[10x5 = 50]

8. Mention the use of Internet.
9. Differentiate between analog and digital computer.
10. Define memory hierarchy of computer system with appropriate diagram.
11. Differentiate between RAM and ROM.
12. Convert the following:
 - a. $1010_2 = (?)_{10}$
 - b. $343_8 = (?)_{10}$
13. What is the difference between application software and system software?
14. What are the major security mechanisms to secure computers?
15. Write short note on the following:
 - c. Optical Fiber
 - d. Local Area Network
16. What is SDLC. What are the different phases of SDLC? Explain.
17. Explain input and output devices with appropriate example.
18. What is database? Explain advantages of database management system.

Group C

Long answer questions (attempt any three)

[3x12 = 36]

19. Explain different types of logic gates with symbols.
20. What do you mean by algorithm? Write an algorithm to add two integer numbers.
21. What is operating system? Explain different types of operating system.
22. Explain various uses of multimedia.

The End