63/1 (SEM-1) CC1/BCAHC1016

2022

(Held in 2023)

BACHELOR OF COMPUTER APPLICATION

Paper: BCAHC1016

(Computer Fundamental and ICT Hardware)

Full Marks: 60
Pass Marks: 24

Time: 3 hours

The figures in the margin indicate full marks for the questions

- 1. Choose the correct answer:
- $1 \times 5 = 5$
- (a) Which one is the optical memory used in computer?
 - (i) CD-ROM
 - (ii) Cache memory
 - (iii) Floppy disk
- (iv) Hard disk
- (b) 2's complement of 1010 is
- (i) 1101
 - (ii) 0110
 - (iii) 1001 of a (I-A) movino
 - (iv) 1110

- (c) Which of the following is not a type of computer code?
 - (i) EDIC
- MOTTA (ii) ASCII MUHMOO HO HOLINDAH
 - (iii) BCD
 - (iv) EBCDIC
 - f Computer Fundamentel and ICT Hardware What is the high-speed memory (d) between the main memory and the CPU unit called?
 - (i) Register memory
 - (ii) Cache memory
 - (iii) Storage memory
 - (iv) Virtual memory
 - A process is a (e)
 - (i) single thread of execution
 - (ii) program in execution
 - (iii) program in memory
 - (iv) task
- 2. Answer the following questions:
 - What is the function of arithmetic and (a) logical unit?
 - Convert (A4)₁₆ to decimal number (b) system.

- (c) Define Cache memory.
- (d) What is Bootstrapping a computer?
- (e) Calculate the 2's complement representation of 100110.
- 3. Answer any five of the following questions:

5×5=25

- (a) Explain assembler, compiler and interpreter.
- (b) Draw the block diagram of microprocessor.
- (c) Write a flowchart to find the factorial of an integer number.
- (d) Explain about linker and loader.
- (e) Explain the concept of virtual memory.
- (f) What is RAM? Explain different types of RAM.
- (g) Explain impact and non-impact printers.
- **4.** Answer any *two* of the following questions:

10×2=20

- (a) Explain any INTEL processor in brief.
- (b) Explain, in detail, about FAT and NTFS file system.

- Write short notes on any two of the (c) following:
 - (i) Switch
- (ii) RJ45 connectors (iii) Patch panel

 - (iv) MODEM
