

- (b) Name and explain the software that enables the users to perform different types of task to solve a specific problem. (4)
6. (a) Differentiate between RAM and ROM. (4)
- (b) What are utility programs? (2)
- (c) Name and explain which utility program is used to compress the file. (4)
7. (a) Explain any **two** different types of I/O ports. (4)
- (b) Give differences between the following with examples : (6)
- Audio input device and video input device.
  - Hand-held scanner and flat-bed scanner.
  - Hard copy devices and soft copy devices.
8. (a) Name the technology that can be used for transferring the files over short distances without Internet? Give its significance and limitations. (5)
- (b) What is cloud computing? Give two advantages of cloud computing. (3)
- (c) What is data mining? (2)

(1500)

[This question paper contains 4 printed pages.]

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05 DEC 2022

Your Roll No. ....

Sr. No. of Question Paper : 2051

Unique Paper Code : 62341101

Name of the Paper : Computer Fundamentals

Name of the Course : **B.A. (Prog.) Computer Applications**

Semester : I

Duration : 3 Hours

Maximum Marks : 75

**Instructions for Candidates**

- Write your Roll No. on the top immediately on receipt of this question paper.
- Question No. 1 is compulsory.
- Attempt any **five** of Question Nos. 2 to 8.
- All parts of a question must be answered together.

1. (a) Differentiate between Mainframe and Supercomputer. (4)

(b) Differentiate between volatile and non-volatile memory? (3)

(c) Explain any two input pointing devices. (3)

P.T.O.

- (d) What is a bus? Explain any two types of bus in a computer system. (4)
- (e) What is flash memory ? Write the features of flash memory? (3)
- (f) Subtract  $(1110)_2$  from  $(10101)_2$  using 1's complement. (2)
- (g) Add  $(111011.1011)_2$  and  $(101010.1101)_2$ . (2)
- (h) What is the function of the BIOS? (2)
- (i) Give full forms of the following abbreviations :
- ALU
  - PCB
  - CAD
  - OCR
- (2)
2. (a) Explain the use of computers in the Education, Advertising, and Government sectors. (5)
- (b) What is motherboard? (2)
- (c) Identify the I/O device for the following : (3)
- Used for producing highly accurate, very large drawings and posters

- Used for scanning text and converting it into readable form in the computer
  - Used to read special characters printed in special ink
3. (a) While writing a program if power is switched off; the program is lost if it has not been saved. Give reason. (2)
- (b) Differentiate between SIMM and DIMM. (4)
- (c) What are the different ways to access data from storage devices? Illustrate with a suitable example. (4)
4. For each of the following numbers, give representation in the following base : (10)
- $(562)_8 \rightarrow (?)_{16}$
  - $(952)_{10} \rightarrow (?)_8$
  - $(110.101)_2 \rightarrow (?)_{10}$
  - $(25.8125)_{10} \rightarrow (?)_8$
  - $(18.231D)_{16} \rightarrow (?)_{10}$
5. (a) Name the software that acts as an interface between user and computer hardware? Write any five functions of the software. (6)