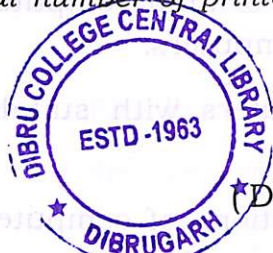


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1 SEM BCA (CBCS) FC 1-1

2024

(December)

## COMPUTER APPLICATION

Paper : 1-1

**(Fundamental of Computers)**

Full Marks : 60

Time : Three hours

***The figures in the margin indicate full marks for the questions.***

1. (a) Write true **or** false : 3
  - (i) IBM 7030 is a first generation computer.
  - (ii) Second generation computers used transistors.
  - (iii) VLSI technology was used by third generation computers.
- (b) Write *three* characteristics of computer. 3

*Contd.*

- (c) Give *two* examples of mini computers and mainframe computers. 2
- (d) Define supercomputers with suitable examples. 4
- (e) Write *three* applications of computers in health care. 3
2. (a) Fill in the blanks : 3
- (i) Digital cameras and mobile phones have \_\_\_\_\_ memory.
- (ii) Intermediate results during program execution are stored in \_\_\_\_\_.
- (iii) Static RAM is made of \_\_\_\_\_.
- (b) Differentiate between Primary Memory and Secondary Memory. 3
- (c) What is BIOS? What kind of memory is preferred in it?  $2+1=3$
- (d) What is the purpose of cache memory? 3
- (e) Name *three* input devices and *three* output devices. 3

3. (a) Write ***two*** examples of the following : 3
- (i) Application software
- (ii) System software
- (iii) Utility software
- (b) Briefly explain the functions of the following : (***any three***)  $2 \times 3 = 6$
- (i) Operating system
- (ii) Utility software
- (iii) Translator
- (iv) Linker loader
- (v) Debugger
- (c) Define proprietary software and open source software with suitable examples.  $3 \times 2 = 6$
4. (a) Define multi-user multi-tasking operating system and real time operating system with examples.  $3 \times 2 = 6$
- (b) Briefly explain computer virus and antivirus with examples.  $3 \times 2 = 6$

(c) Fill in the blanks : 3

- (i) DOS is an example of \_\_\_\_\_ operating system.
  - (ii) Operating system is added as a layer between \_\_\_\_\_ and \_\_\_\_\_.
  - (iii) Microsoft Windows 10 is an example of \_\_\_\_\_ operating system.
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