Total number of printed pages–4

1 SEM BCA (CBCS) FoC 1

2017

(December)

COMPUTER APPLICATION

Paper : 1·1

(Fundamental of Computer)

Full Marks : 60

Time : Three hours

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

1. Answer ***any five*** : 5×2=10

(a) What is OMR ?

(b) What is BIOS ?

(c) Write the full form of ASCII.

(d) Calculate 1011-1001 using two's complement methods.

(e) What is cache memory ?

(f) What is PDA ?

Contd.

2. (a) Explain the classification of printer. 5

Or

(b) Explain the working of Hard disk. 5

(c) What is Seek time and Rotational delay of Hard disk ? A hard disk has 10 disk plates, 2000 tracks per surface, 125 sector per track and 512 bytes of data can be stored per sector. Calculate the storage capacity of the disk. 2+3=5

3. (a) Convert the following : 5×1=5

(i) $(21F{\cdot}DE)_{16}$ into decimal

(ii) $F1E2$ into Binary

(iii) $(10567)_8$ into decimal equivalent

(iv) $(1101100)_2$ into octal

(v) 10101001 into decimal.

(b) Write down the difference between system software and application software with example. 5

Or

(c) What is mail-merge ? Write down the steps involved to add a chart to a PowerPoint slide. 2+3=5

4. (a) Write down the functions of an operating system. 5

(b) Explain the classification of computer. 5

5. (a) What is primary memory ? Explain the different types of RAM available in a computer system. 2+3=5

Or

(b) What is BCD code ? What are different types of BCD code ? Explain with example. 2+3=5

(c) Define *any five* of the following : 5

Compiler, interpreter, loader, linker, antivirus, Internet, Wide Area Network.

6. *(a)* Briefly explain the following : ***(any two)*** $2 \times 2\frac{1}{2} = 5$

(i) Search Engine

(ii) DBMS

(iii) DOS Commands

(iv) ALU.

(b) Explain the basic block diagram of a computer. 5