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1 SEM TDC CAPN (CBCS) DSC 1

2 0 2 3

(November)

COMPUTER APPLICATION

(Discipline Specific Course)

Paper : DSC-1

(**Computer Fundamentals**)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

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

1. Choose the correct answer : 1×5=5

(a) Numbers in base 16 are called

(i) octal system

(ii) hexadecimal system

(iii) decimal system

(iv) binary number system

(2)

- (b) Which of the following is not an input device?
- (i) Joystick
 - (ii) Keyboard
 - (iii) Printer
 - (iv) Mouse
- (c) Which of the following memories is non-volatile?
- (i) RAM
 - (ii) ROM
 - (iii) Cache memory
 - (iv) Secondary memory
- (d) Cloud computing means
- (i) providing services like storage, servers, database, networking, etc.
 - (ii) storing data in a database
 - (iii) a tool used to create an application
 - (iv) a programming language
- (e) Data analysis is a process of
- (i) inspecting data
 - (ii) transforming data
 - (iii) cleaning data
 - (iv) All of the above

(3)

2. Answer the following questions : 2×5=10
- (a) How is a web camera useful to us?
 - (b) What is an optical disk?
 - (c) What do you mean by operating system?
 - (d) What is SPSS?
 - (e) What do you understand by data mining?
3. (a) Explain the basic components of computer system with suitable block diagram. 7
- (b) Explain what is embedded system in a computer system and how it is useful. 4
4. (a) Subtract the following : 2×2=4
- (i) $(10101011)_2 - (01111)_2$
 - (ii) $(11100001)_2 - (11110111)_2$
- (b) Add the following : 2×2=4
- (i) $(10101011)_2 + (0111111)_2$
 - (ii) $(11100001)_2 + (111110111)_2$
- (c) Discuss how computer represents character in its memory. 4

(4)

5. (a) Explain the classification of computers with capabilities and limitations. 7

(b) Write short notes on any *four* of the following : 2×4=8

(i) System bus

(ii) Heterogeneous storage

(iii) Computer monitor.

(iv) Bluetooth

(v) Plotter
