BCS-011

BACHELOR OF COMPUTER APPLICATIONS (Revised)
Term-End Examination
December, 2013

BCS-011 : COMPUTER BASICS AND PC SOFTWARE

Time : 3 hours   *Maximum Marks : 100*
                          Weightage : 75%

Note :   *Question number 1 is* **compulsory** *and carries* **40** *marks.*
           Attempt **any three** *questions from the rest.*

1. (a) Explain the working of the various   **6**
         components of a computer, with the help
         of a diagram.

    (b) What are Arrays and what is their utility.   **7**
         Explain the two types of arrays and with
         the help of an example depict the storage of
         data in them.

    (c) What is a computer network ? What are its   **7**
         advantages ? Differentiate between guided
         and unguided data transmission channels.

    (d) What is Moodle ? Describe its role in   **5**
         E-learning.

    (e) Explain memory hierarchy with the help of   **5**
         suitable diagram.

(f) Explain various categories of printers on the basis of speed and quality. **6**

(g) What is E-mail ? Write steps to create E-mail account. **4**

2. (a) What is a port ? Explain any four types of ports. **6**

(b) Differentiate between Batch and Multiprogramming operating system. **5**

(c) Describe the OSI Reference Model with the help of a diagram. **9**

3. (a) Explain the following terms with the help of example/diagram. **15**
   (i) Access time   (ii) DNS
   (iii) Plotter   (iv) Video card
   (v) Disk checkers

(b) Draw a flowchart that accepts ten numbers and displays its sum and average. **5**

4. (a) Do the following conversions : **12**
   (i) $(382)_{10}$ to Binary
   (ii) $(79)_{10}$ to Hexadecimal
   (iii) $(110101.01)_2$ to decimal
   (iv) $(38A)_{16}$ to Binary

(b) Describe the working of Routers and Gateways. **6**

(c) What is a Browser ? **2**

5. (a) What is an Open Source Development 8
        Model ? Describe any six features of this
        model.

    (b) Explain any four Operating System Services. 12

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