

**BACHELOR OF COMPUTER APPLICATIONS**  
**(Revised)**

09574

**Term-End Examination**  
**December, 2014**

**BCS-011 : COMPUTER BASICS AND PC SOFTWARE**

*Time : 3 hours*

*Maximum Marks : 100*

*(Weightage 75%)*

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

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1. (a) What is a computer system ? Explain Von-Neumann architecture of computer systems with the help of a diagram. 7
- (b) What is a flow chart ? Draw a flow chart to find the average of three given natural numbers. 7
- (c) What is open source software ? Explain open source development model. 7
- (d) What is software project management ? Explain the following with respect to software project management : 6
  - (i) Scheduling
  - (ii) Timesheet Management

- (e) What is Internet ? Explain the basic structure of Internet with the help of a diagram. 7
- (f) What is social networking ? Briefly explain its advantages and disadvantages. 6
2. (a) What is URL ? Explain the parts of a URL with the help of an example. 7
- (b) What is ASCII ? Explain how Unicode is different from ASCII. 6
- (c) What is a motherboard ? List and briefly explain any five parts of a motherboard. 7
3. (a) What is the need of memory hierarchy in computer systems ? Compare magnetic memory with semiconductor memory in terms of speed and cost. 6
- (b) What are malwares ? Explain any three malwares, in brief, with the help of an example of each. 7
- (c) What is a Compiler ? How is it different from Interpreter ? List any two high level languages, that use a Compiler. 7
4. (a) What is a Web Browser ? Explain how a Web Browser works. Also, explain the types of Web Browsers. 8
- (b) What is a programming language ? Briefly explain the following elements of a programming language : 6
- (i) Variable
- (ii) Data type

(c) What is an operating system ? Explain the following functions of an operating system : 6

(i) File Management

(ii) Memory Management

5. Explain any *five* of the following with the help of an example/diagram, if needed :  $5 \times 4 = 20$

(i) Input Output Devices

(ii) Binary Number System

(iii) Utility Software

(iv) Spreadsheet

(v) Object Oriented Language

(vi) Networking Devices

(vii) Search Engine

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