

**BACHELOR OF COMPUTER  
APPLICATIONS (Revised)**

**Term-End Examination**

**June, 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 LAN ? Explain with the help of diagrams, any two LAN topologies. Also mention their advantages and disadvantages. 7
- (b) Explain Von-Neumann architecture with the help of suitable diagram. 5
- (c) Explain distributed and Real-time operating system. 6
- (d) Explain Sequential Access and Random Access methods for accessing information from memory devices. 6

- (e) Differentiate between the following : 6
- (i) System software vs. Application software.
  - (ii) Compiler vs Interpreter.
- (f) Explain the following terms : 10
- (i) Modem
  - (ii) Repeaters
  - (iii) Bridge
  - (iv) Network Interface Card
  - (v) Assembler
2. (a) Explain any two Guided and any two Unguided Transmission channels, with the help of diagrams. 10
- (b) Explain the purpose of open source software. Discuss any one model of development of open source software. 5
- (c) What is DNS? Explain its use with the help of an example. 5
3. (a) Describe Editors and Debuggers as programming softwares. 4
- (b) What is Perverse Software? Explain any four malware. 6

- (c) Explain with the help of examples the following conversions : 10
- (i) Decimal to Binary
  - (ii) Binary to Decimal
  - (iii) Hexadecimal to Binary
  - (iv) Binary to Hexadecimal
4. (a) What is Internet ? Describe the TCP/IP Model. 7
- (b) Explain Data Compression and Disk Management utility in windows. 6
- (c) What is Project Management ? Discuss how scheduling and calculation of critical path activities are performed using this software. 7
5. (a) What are flow charts ? What are the basic flow chart symbols ? Draw a flow chart that calculates the area of a circle. 10
- (b) What is Hard Disk Drive ? Describe the Storage Organization of a HDD with the help of a diagram. 6
- (c) Differentiate between a CRT and a LCD monitor. 4
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