

00481

**BACHELOR IN COMPUTER
APPLICATIONS (BCA Revised)**

Term-End Examination

December, 2011

**BCS-011 : COMPUTER BASICS AND P C
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) Convert the following decimal numbers to binary and hexadecimal numbers. 5
(i) 75
(ii) 0.125
- (b) What will be the storage capacity of a 2.5 inch diameter disk pack having 4 plates, 200 sectors per track, 1024 tracks per surface with each sector capable of storing 1024 Bytes ? 4
- (c) What is Von Neumann Architecture ? Explain with the help of a diagram. 5
- (d) List any four different types of software that are required for programming. Explain the purpose of each one of these. 6

- (e) What is the need to draw a flow chart ? 7
 Draw a flow chart for finding sum of first 10 odd numbers. That is, it should add $1+3+5+7+9+11+13+15+17+19$.
- (f) Which of the following is valid IP address/ addresses ? You must give reason in support of your answer : 3
- (i) 192.168.5.512
- (ii) 1.1.1.0
- (iii) 172. -1.1.1
- (iv) 77.77.100
- (g) What are the advantages of using Local Area Networks ? List the characteristics of LANs. How are WAN different than LAN ? 7
- (h) What is a Wiki ? How is it useful to us ? 3
2. (a) What is memory hierarchy ? Explain with the help of a diagram. Why is memory hierarchy created in a computer system ? 7
- (b) Explain any three main activities that you can perform using a spreadsheet software. 6
- (c) What is a Web browser ? Write the sequence of activities that take place when you request for a webpage, till it is displayed in your browser window. 7

3. (a) Given the three storage devices (i) Hard disk (ii) Pen drive (iii) Magnetic tape, what will be their primary uses ? Give advantage and disadvantage of each of these secondary memories. 9
- (b) What is an operating system ? Explain the five main services provided by the operating system. 11
4. (a) Explain the purpose of each of the following network devices : 10
- (i) Network interface card
 - (ii) Modem
 - (iii) Repeater
 - (iv) Bridge
 - (v) Hub
- (b) What is the need of a port in a computer ? List any four ports that may be used in a computer also give the name of one device that may use that port. 5
- (c) What is meant by project management software ? Explain any four activities that you can perform using project management software. 5

5. Explain *any five* of the following terms with the help of an example/diagram, if needed : 20

- (a) Security threats on Internet.
 - (b) The activities performed by search engines..
 - (c) Tools for collaboration on Internet.
 - (d) Diagnostic tools in a computer.
 - (e) Use of subroutines and functions.
 - (f) Purpose of "my computer" and "Recycle Bin".
 - (g) Main frame computers and Super computers.
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