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**BCS-011** 

## BACHELOR OF COMPUTER APPLICATIONS (BCA) (Revised)

03323

## Term-End Examination June, 2015

**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) Convert the following hexadecimal numbers to equivalent binary and decimal:
  - (i) (F4)<sub>16</sub>
  - (ii) (AC)<sub>16</sub>
  - (b) A 3 inch diameter disk per track has
    8 plates (16 recording surfaces),
    256 sectors per track, 4096 tracks per surface, 512 bytes per sector. Calculate the disk capacity in GB.
  - (c) What is a flow chart? Draw a flow chart to find the maximum of three given natural numbers.

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	(d)	What is a laser printer? Compare its features with an ink-jet printer.	6
	(e)	What is a desktop computer? Give a generic configuration of a desktop computer.	5
	<b>(f)</b>	What is E-mail? Explain how an E-mail account is created. Also list the folders available in an E-mail account.	7
	(g)	What is E-learning? What are its advantages and disadvantages? List the steps of the process of creating of E-learning content.	6
2.	(a)	What is data communication? Explain data communication process with the help of a diagram.	7
	(b)	What is a device driver? Are device drivers hardware dependent? Justify your answer. List four devices which require device drivers.	6
	(c)	What is a subroutine? Explain the steps of subroutine execution. Write a subroutine to find the sum of two given positive integers.	7
3.	(a)	Explain OSI reference model of computer network.	7
	(b)	What is a search engine? Explain three categories of search engines.	8
	(c)	Explain any five major areas of application of computer systems.	5

- 4. (a) What is main memory? Differentiate among RAM, Semiconductor memories and Cache memory.
  (b) What is application software? How is application software different from system software? List the names of two application and two system softwares.
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  (c) What is wiki? Explain the characteristics
  - (c) What is wiki? Explain the characteristics of wiki. Explain the uses of wiki for a university.
- 5. Explain any *five* of the following with the help of an/a example/diagram, if needed:  $5\times4=20$ 
  - (i) Collaborations with the context of Internet
  - (ii) LAN and WAN
  - (iii) Basic Storage Devices
  - (iv) Disk Management
  - (v) Computer Virus
  - (vi) Software Licensing
  - (vii) Object Oriented Language

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