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BCS-011

BACHELOR OF COMPUTER APPLICATIONS (BCA) (Revised)

Term-End Examination

00716

June, 2016

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) What are the features available in fifth generation computers?
 5
 (b) What is a subroutine? How is it different from a function?
 - (c) Draw a flow chart to input two numbers and print their arithmetic mean.
 - (d) Describe the different kinds of computer monitors.
 - (e) What is a DNS? How can an address like www.xyz.ac.in be interpreted and accessed using web?
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P.T.O.

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- (f) Convert the following decimal numbers to hexadecimal numbers as well as binary numbers:
- 6

- (i) $(3203)_{10}$
- (ii) $(4312)_{10}$
- (g) A company has an office at Delhi and another at Mumbai. It has a good link that delivers 2 Mbps between them. It is required to transfer 8.5 GB of data urgently from Delhi to a computer at Mumbai. A courier can reach the airport and board a flight in 2 hours. The flight time to Mumbai is another 2 hours and he can reach the Mumbai office from the airport in another 2 hours. Which method would be faster use the link or send a courier?

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2. (a) What is open-source software? What is open-source software licensing? Describe the open-source development model.

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(b) List with reasons any six precautions you would take while browsing a website.

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(c) Describe the constituents and functions of the Central Processing Unit of a computer.

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3.	(a)	What is a search engine? Describe how different actions allow you to conduct a search on any given topic.	8
	(b)	What are the limitations of a computer?	6
	(c)	Describe three key distinguishing features of Object Oriented Languages.	6
4.	(a)	Explain, with the help of a diagram, the 7-layer OSI networking model. Indicate the function of each layer with an example.	8
	(b)	Describe the functions and features of the following:	12
		(2)	
		(ii) Debugger	
		(iii) Device Driver	
5.		lain any five of the following with the help of grams and examples as appropriate: $5\times4=$	20
	(a)	Uniform Resource Locator	
	(b)	ROM	
	(c)	Memory Management in an Operating System	
	(d)	Client-Server Architecture	
	(e)	Analogue and Digital Signals	
	(f)	Disk Checkers	