Np. of Printed. Pages: 7

BACHELOR OF COMPUTER APPLICATIONS (BCA)

(REVISED)

Term-End Examination December 2019

BCS-011 : COMPLOTER BASICS AND PC
SOFTWARE
•

Time: 3 Hours Maximum Marks: 100

Weightage : 75%

Note: Question No. 1 is compulsory and carries 40 marks. Attempt any three questions from the rest.,

- 1. (a) Convert the following decimal numbers to equivalent bineiry number :
 - (i) '37
 - (ii) 0.125

597 (B-2\$) P. T. 0.

2

(b) Convert the following hexadecimal number to equivalent binary :

2

(FA3)16

(c) What will the storage capacity of a disk of 2.5 inch diameter 8 plates (15 recording surfaces) with 512 sectors per track and 2048 tracks per recording surface? Assume that one sector can store 1048 bytes of data.

2

(d) Differentiate between the parallel port and serial port of a computer.

(e) What is an integrated circuit ? Is microprocessor an integrated circuit ?

2

(f) Explain the concept of memory hierarchy with the help of a diagram.

4

(i) 256.0.0.0

Explain. 5

system?

192.168.1.27 (ii)

(iii) 10.0.5.7.5

(k) What is meant by the term 'Network Topology'? Explain the bus topology with

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	the help of a diagram. List the advantages	
	and disadvantages of bus topology.	6
(1) What is e-Learning ? What are its		
	advantages and disadvantages?	4
2. (a) Ex	aplain the three modes of data	
	transmission.	5
(b)	What is URL? Why is it needed? Explain	
	various parts of a URL with the help of an	
	example. How URL is translated to	
	physical address of the resource ? Explain	
	with the help of an example.	8
(c)	Explain the following terms in the context	
	of a search engine: 2+3	+2-=,7
	(i) Spidering or Web Crawling	
	(ii) Indexing	

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(iii) Searching

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- 3. (a) What is Computer Virus ? How is it

 different from Trojan Horse in the context

 of a computer ? List the ways to counter

 the perverse software. 7
 - (b) Explain the following feature an application software:

8

- (i) Mail merge in word processing
- (ii) Macros in spreadsheet
- (iii) Defining relationship in **Database**Management System
- (iv) Scheduling in Project Management
 Software
- (c) Differentiate between the open source software and proprietary software.

5

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- 4. (a) Explain the role of various components of a computer system with the help of a diagram. 5
 - (b) Differentiate between the following

(i) Serial Access and Random Access

RAM and ROM

- (iii) SRAM and DRAM
- (iv) ROM and PROM
- (v) Inkjet Printer and Laser Printer
- (c) What are utility software? Explain the use of disk checker and disk defragmenter utility software.
- 5. Explain any *five* of the following with the help of an example/diagram, if needed: 5x = 4
 - (a). Web Browser
 - (b) Optical Memories

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- (c) ASCII and Unicode
- (d) Looping Statement
- (e) Kernel of an Operating System
- (f) Linker and Text Editors
- (g) Hub and Switches (Networking devices)
- (h) WIKI

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