

বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

BCA

1st Semester Examination 2021

COMPUTER FUMDAMENTAL

PAPER-1101

Full Marks : 70

Time : 3 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Group – A

Answer any *four* questions. 4×15

- 1. (a) What is pseudocode? What are the characteristics of an alogorithm?
 - (b) Write the pseudocode to check a number is a palindrome or not.
 - (c) What are the limitations of flowchart? (2+5)+5+3

2.	(a) Define the term 'seek time' and 'latency time' of a hard disk. random access time.	Define 2+2+2
	(b) What are the differences between data and information?	3
	(c) Draw and explain the basic structure of CPU.	6
3.	(a) Find the value of x : $(1101011)_2 = (?)_8$	3
	(b) Prove that if $w'x + yz' = 0$ then wx + y'(w' + z') = wx + xz + x'z' + w'y'z	5
	(c) Implement X-OR gate with the help of minimum number of NAN and NOR gate seperately.	D gate 7
4.	(a) What is operating system? Explain memory hierarchy.	2+5
	(b) Why do we need computer memory?	2
	(c) What is Cache memory?	3
	(d) What are the advantages of cache memory?	3
5.	(a) Distinguish between Primary and Secondary memory.	3
	(b) What are the differences between ROM and RAM?	3
	(c) Explain the term EEPROM.	4
	(d) Explain Virtual memory.	5

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6.	a) What do you mean by fixed and floating point number representations?			
		6		
	(b) Briefly describe different types of memory access methods we example.	vith 6		
	(c) What are the attributes in HTML?	3		
7.	(a) What are the basic differences between Internet and Intranet?	4		
	(b) What is web browser?	2		
	(c) Explain the structure of HTML.	4		
	(d) Explain briefly about forms in HTML.	5		
8.	(a) How to create a hyperlink in HTML?	4		
	(b) Name some common lists that are used when designing a page.	5		
	(c) Discuss the function and structure of e-mail protocol.	6		
Group – B				
	Answer any <i>one</i> question. 1×	10		
9.	(a) What do you mean by multiprogramming and multitasking? 2	+2		
	(b) What is the differences between high level language and machine le language ?	evel 2		

(c) What do you mean by floating point representation of a number?Explain with a suitable example. 2+2

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3

10. (a) Briefly dfescribe the Von-Neuman architecture of Computer. 4

(b) What are the characteristics of 4th and 5th generation of Computer? 3 + 3

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