

CS/B.OPTM/SEM-2/BO-205/2011 2011

## **COMPUTER FUNDAMENTALS AND PROGRAMMING**

*Time Allotted* : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

## **GROUP – A**

## (Multiple Choice Type Questions)

1. Choose the correct alternatives for the following :

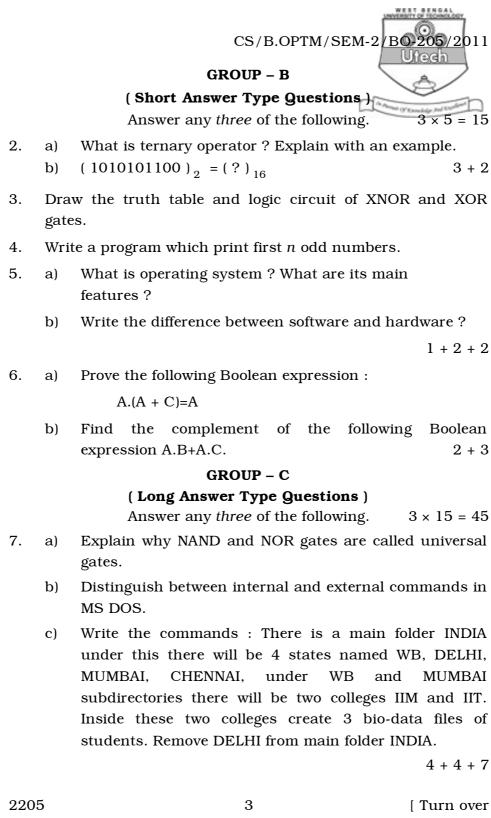
 $10 \times 1 = 10$ 

i)	C is level language.								
	a)	high b)	med	lium					
	c)	low	d)	machine.					
ii)	One	One mega byte(MB) is equal to							
	a)	1024 GB	b)	1000 kW					
	c)	100000 byte	d)	1024 kB.					
iii)	In Boolean law X + X equals								
	a)	Х	b)	0					
	c)	1	d)	2X .					
iv)	Logic equation of difference for half subtractor is								
	a)	$x \approx y$ b)	<i>x</i> +	y					
	c)	xy	d)	$\overline{x}$ y.					

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v)	Whi	ch DOS comman	d is us	sed to	delete files and			
	<u>directories</u> permanently from the computer ?							
	a)	FORMAT	b)	RD				
	c)	DELTREE	d)	DEL.				
vi)	vi) The octal equivalent to binary 1001101 is							
	a)	115	b)	77				
	c)	4D	d)	221.				
vii)	Wha	What will be the output of the following program ?						
		void main()						
	{							
		int $a, b;$						
		a = 21/5;						
		b = 21%5;						
	printf("%d%d",a,b);							
	a)	4 1	b)	11				
	c)	44	d)	Error				
viii)	Array index in C by default starts at							
	a)	- 1	b)	any v	alue			
	c)	0	d)	none	of these.			
ix)		vhich standard lik ted ?	orary file	is the	function printf()			
	a)	stdlib.h	b)	stdio.	h			
	c)	stdout.h	d)	stdou	tput.h.			
X)	ATTRIB +H makes the file							
	a)	read only	b)	norm	al only			
	c)	system only	d)	hidde	en only.			
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- 8. a) What is combination circuit ? Design full adder using two half adders.
  - b) Write a program which will calculate sum of the digits of a number.
  - c) What is Byte ? 6 + 7 + 2
- 9. a) Write a program which will swap the value of two variables without using 3rd variable.
  - b) Write the differences between RAM & ROM.
  - c) Draw 2 to 4 line decoder circuit with truth table.

5 + 4 + 6

- 10. a) Write a program which will sort an array. The array must contains 10 elements and the data will be inputted through keyboard from user.
  - b) Expalin basic organization of a computer system with diagram. 8 + 7
- 11. Write short notes on any *three* of the following :  $3 \times 5$ 
  - a) Firewall
  - b) Cache Memory
  - c) Looping in C
  - d) MS office
  - e) Input/Output device.

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