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G.R.No. 

PAPER CODE

U113-202B (NCB)

Dec 2023 (Backlog) EXAM

F.Y. B. TECH. (PATTERN 2018)

COURSE NAME: Computer Fundamental-NCB

COURSE CODE: CS10182B-NCB

Time: [2Hr]

[Max. Marks: 60]

(\*) Instructions to candidates:

- 1) Use of scientific calculator is allowed
- 2) Use suitable data where ever required
- 3) All questions are compulsory

Que. No.	Question Description	Max. Marks	CO mapped	BT Level
Q1.	Choose the Correct options			
	A) Any data or instruction entered into the memory of computer is considered as a) Storage b) output c) input d) none of the above	[2]	CO1	Understand
	B) _____ is the computer program that would convert an assembly language to the machine language. a) Interpreter b) Compiler c) Comparator d) Assembler	[2]	CO1	Understand
	C) A list of various coded instructions is known as: a) Flowchart b) Utility programs c) Algorithm d) Computer program	[2]	CO1	Understand
	D) ALU stands for a) Arithmetic Logic Unit b) Array Logic Unit c) Application Logic Unit d) None of the above	[2]	CO1	Understand
	E) Which of the following is the valid storage type? a) CPU b) Keyboard c) Pendrive d) Monitor	[2]	CO1	Understand
	F) Diagrammatic representation of an algorithm is a) Flowchart b) Data Flow Diagram c) Algorithm d) Pseudo code	[2]	CO2	Understand

	<p>G) Which of the following symbol in the flowchart are used indicating all the arithmetic process of adding, subtracting, multiplying and dividing?</p> <p>a) Input/Output b) Terminal c) Processing d) Decision making</p>	[2]	CO2	Understand
	<p>H) Improper sequence of instruction in a program generates error known as</p> <p>a) Runtime Error b) Logical Error c) Syntax Error d) Exceptional Error</p>	[2]	CO2	Understand
	<p>I) What are the advantages of an Algorithm?</p> <p>a) Easy to implement b) It follows the predefined path c) It is independent of programming language d) all of the above</p>	[2]	CO2	Understand
	<p>J) ----- symbol is used calculate or process any data</p> <p>a) Connector b) Terminal Box c) Input/Output d) Process</p>	[2]	CO2	Understand
	<p>K) Which of the following can be replaced by IF statement</p> <p>a) switch b) while c) continue d) for</p>	[2]	CO3	Apply
	<p>L) What is the output of the following C code?</p> <pre>int main() const int a; a=32; printf("a=%d",a); return 0; }</pre> <p>a) a=32 b) compile time error c) run time error d) none</p>	[2]	CO3	Apply
	<p>M) How many times will the following loop execute?</p> <pre>for(j=1;j&lt;=10;j=j-1)</pre> <p>a) Forever b) never c) 10 times d) 9 times</p>	[2]	CO3	Apply
	<p>N) What will be result after the execution of the following code if a=10, b=5 and c=10?</p> <pre>if(((a&gt;b)&amp;&amp;(a&lt;=c)) { a=a+1;</pre>	[2]	CO3	Apply

	<pre> } else { c=c+1; } a) a=10,c=10 b) a=11,c=10 c) a=10,c=11 d) a=11,c=11 </pre>			
	O) How many bytes does int data types uses? a) 2 or 4 bytes b) 1 byte c) 6 bytes d) 0 bytes	[2]	CO3	Apply
Q.2	a) Write program to display first 20 Fibonacci number using recursion?	[4]	CO4	Apply
	b) What is need of function? Write C program to add two numbers using sum() function?	[6]	CO4	Apply
	OR			
	c) Explain types of function Call types? Write C program to swap two numbers using call by reference	[6]	CO4	Apply
Q.3	a) List all the commands related to Matrices in Matlab and explain three commands	[4]	CO5	Understand
	b) Define what is HTML? List five tags used in HTML and explain them	[6]	CO5	Understand
	OR			
	c) What are the different types of list used in HTML? Explain each of them?	[6]	CO5	Understand
Q.4	a) List all the five Maths function and explain with an example	[4]	CO6	Understand
	b) Explain the process of generating Pivot charts	[6]	CO6	Understand
	OR			
	c) List all the five Statistical function and explain with an example	[6]	CO6	Understand