PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BVoc DEGREE EXAMINATION DECEMBER 2023 (First Semester)

Branch - NETWORKING AND MOBILE APPLICATION PROBLEM SOLVING TECHNIQUES USING C

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks $(10 \times 1 = 10)$

Module	Question No.	Question	K Level	СО
No.	1	A way of representing an algorithm is called as a) Pseudocode b) Compiler c) Interpreter d) None of the above	K1	CO1
	2	Name the system program that converts the high-level language to machine level language a) Assembler b) Compiler c) Interpreter d) None of the above	K2	CO1
2	3	What is the size of the int data type on a 32-bit machine a)2 bytes b) 4 bytes c) 8 d) 16 bytes	K1	CO2
	4	Variables that are declared inside a function are called as a) Local Variable b) Global Variable c) Static Variable d) None of the above	K2	CO2
3	5	How many operands a ternary operator requires? a) 4 b) 5 c) 3 d) 2	K1	CO3
	6	Name the function which adds spaces to the end of a string to fill the string to a predefined length. a)converge() b) strlen() c) length() d) pad()	K2	CO3
4	7	Name the operator that returns the memory address of its operand. a) * b) + c) & d) None of the above	K1	CO4
	8	Which of the following is not a standard C library function for mathematical operations? a) pow b) rand c) sqrt d) abs		CO4
5	9	The concept of defining a new name for an existing type is referred to a) typedef b) structure c) union d) None of the above	K1	CO5
	10	When a structure is passed as an argument to a function, the entire structure is passed using a) call-by-value b) call-by-reference c) Both d) None of the above	K2	CO5

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Cont ...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 7 = 35)$

Module	Question		T	1
No.	No.	Question	K Level	CO
1	11.a.	Write an algorithm to find the largest of three numbers.		
	(OR)		K2	CO1
	11.b.	Draw a flowchart to compare two numbers.		
	12.a.	Explain the concept of constant.		
2		(OR)	K4	CO2
	12.b.	Compare compiler and interpreter.		
	13.a.	Explain if and if-else statement with example.		
3	(OR)		К3	CO3
	13.b.	How do you pass single dimensional array to a function? Explain.	KS	003
	14.a.	Explain the concept of multiple indirection.		
4	(OR)		К3	CO4
	14.b.	Explain the concept of command line argument with a small example.	KS	004
	15.a.	How do you pass structure to a function?		
5	(OR)			CO5
	15.b.	List out any 10 commonly used C File system functions.	K4	

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks $(3 \times 10 = 30)$

Module No.	Question No.	Question	K Level	СО
1	16	Discuss the classification of programming languages.	K4	COI
2	17	Explain the four main classes of operators.	K4	CO2
3	18	Illustrate the concept of single dimensional array and multidimensional array with example.	K4	CO3
4	19	Write a program to implement stack using pointer.	K4	CO4
5	20	Explain the concept of enumeration in detail.	K4	CO5