22NMB101N / 22NMB101

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BVoc DEGREE EXAMINATION MAY 2024
(First Semester)

Branch – **NETWORKING & 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 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	A translator that converts an assembly level language to high level language is called as a) Compiler b) Assembler c) Loader d) Linker	K1	CO1
	2	Name the assembler that runs on one machine and produces the machine code for another machine is called as a) Compiler b) Assembler c) Cross assembler d) Linker	K2	CO1
2	3	Which of the following is not a C language keyword? a) volatile b) enum c) unsigned d) go	K1	CO2
	4	Which of the following is not a C storage class a) volatile b) static c) register d) auto	K2	CO2
3	5	while loop is an _____ a) entry control loop b) exit control loop c) Both a and b d) None of the above	K1	CO3
	6	The continue statement cannot be used with a) for b) while c) do while d) switch	K2	CO3
4	7	In C, what is a pointer primarily used for? a) Decision Making b) Code organization c) Variable declaration d) Storing values	K1	CO4
	8	What is the purpose of the return statement in a function? a) To declare the function's return type b) To exit the program c) To return a value from the function d) To define a function	K2	CO4
5	9	A _____ is a memory location that is shared by two or more different types of variables a) Structure b) Union c) Array d) typedef	K1	CO5
	10	Which of the following cannot be a structure member? a) Another structure b) Function c) Array d) None of the above	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Discuss the advantages and disadvantages of flowchart	K2	CO1
		(OR)		
	11.b.	Discuss in detail about Language Translator		
2	12.a.	Write the history of C Program	K4	CO2
		(OR)		
	12.b.	What are type qualifiers. Explain with example		
3	13.a.	Explain while loop with an example	K3	CO3
		(OR)		
	13.b.	Write a C program to sort n numbers using single dimensional array		
4	14.a.	Explain the concept of dynamically allocated arrays	K3	CO4
		(OR)		
	14.b.	Write a program to find the factorial of a number using recursion		
5	15.a.	Explain briefly the concept of union	K4	CO5
		(OR)		
	15.b.	List the different values of mode to open a file		

SECTION -C (30 Marks)

Answer **ANY THREE** questions

ALL questions carry **EQUAL** Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Discuss the sequence of steps involved to solve a problem using computer	K4	CO1
2	17	Classify the storage class specifier and explain with example	K4	CO2
3	18	Explain Jump Statements in detail	K4	CO3
4	19	Elaborate the different ways of passing the argument to a function with example	K4	CO4
5	20	Explain structure pointers in detail	K4	CO5

Z-Z-Z END