PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(Second Semester)

Branch - **MATHEMATICS WITH COMPUTER APPLICATIONS**

PROGRAMMING IN 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	Which of the following is not a valid C variable name? a) int number; b) float rate; c) int variable_count; d) int $main;	K1	CO1
	2	Infer that a _____ is an operator used to operate on a single operand to return a new value. a) Special Operator b) Unary Operator c) Binary Operator d) Bitwise operator	K2	CO1
2	3	Which among the following is the odd one out? a) printf b) fprintf c) putchar d) scanf	K1	CO2
	4	Relate that the continue statement cannot be used with_____ a) for b) while c) do while d) switch	K2	CO2
3	5	Match the correct choice: 'Functions have static qualifier for its declaration by default'. a) True b) False c) Depends on the compiler d) Depends on the standard	K1	CO3
	6	Relate the correct format for declaration of function among the following. a) return-type function-name(argument type); b) return-type function-name(argument type){} c) return-type (argument type)function-name; d) all of the mentioned	K2	CO3
4	7	Tell that if p is a pointer to an integer and c is a pointer to a character then sizeof(p) will be_____. a) same as that of sizeof(c) b) greater than that of sizeof(c) c) less than that of sizeof(c) d) None of the above	K1	CO4
	8	Relate the Format specifier used to print a String or Character array in C Printf or Scanf function. a) %c b) %d c) %s d) %w	K2	CO4
5	9	Which one of the following is correct syntax for opening a file? a) FILE *fopen(const *filename, const char *mode) b) FILE *fopen(const *filename) c) FILE *open(const *filename, const char *mode) d) FILE open(const*filename)	K1	CO5
	10	Infer that the function of fputs() is _____. a) read a line from a file b) read a character from a file c) write a character to a file d) write a line to a file	K2	CO5

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.	Summarize the rules for declaring variables. Give an example.	K2	CO1
		(OR)		
	11.b.	Illustrate a program to check whether the give number is ODD or EVEN.		
2	12.a.	Analyze gets() and puts() with an example.	K4	CO2
		(OR)		
	12.b.	Examine the characteristics of switch statement with an example.		
3	13.a.	Dissect various types of functions with example.	K4	CO3
		(OR)		
	13.b.	Inspect global and static variables with example.		
4	14.a.	Develop a program to search a string from character array.	K3	CO4
		(OR)		
	14.b.	Identify the characteristics of union with example.		
5	15.a.	Analyze various file opening modes.	K4	CO5
		(OR)		
	15.b.	Examine command-line argument with example.		

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	Examine conditional and logical operators with an example.	K1	CO1
2	17	Inspect break and continue statements with an example.	K4	CO2
3	18	Explain various types of arrays with an example.	K5	CO3
4	19	Interpret the concept of dynamic memory allocation with an example.	K5	CO4
5	20	Develop a program to read and write a line to a file.	K6	CO5

Z-Z-Z   END