PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BVoc DEGREE EXAMINATION DECEMBER 2019

(First Semester)

Branch - NETWORKING & MOBILE APPLICATION

Time:	<u>C PROC</u> Three Hours	GRAI	MMING	Maximum: 75 Marks
	SECTION Answer A	LL	,	
	Identify the size of the data type (i) 2 (iii) 8	'doul (ii) (iv)	4	ytes.
	Name the derived data type from (i) array (iii) float	(ii)	Collowing. char typedef	
	Pick out the user-defined data typ (i) array (iii) int	(ii)	om the following enum main	
	What is the output of the stateme (i) 0 (iii) 3	ent 3% (ii) (iv)	1	
	Which one of the following is an (i) goto (iii) switch	(ii)		statement?
	Identify the default return type of (i) double (iii) long double		float	
	In which loop, the body will be e (i) dowhile (iii) nested for	(ii)	ted atleast once? for while	
	Name the derived data type which a contagious memory. (i) Array (iii) Union	(ii)	~	mogenous elements in
	Which one of he following is use (i) while (iii) goto	(ii)		

Which function sends a formatted output to a stream? (i) fputc (ii) fgetc.

(iii) fprintf (iv) fread

10

SECTION - B (25 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5x5 = 25)

19NMB01 Cont...

12 a Develop a C program to illustrate the use of Switch case.

 $\cap \mathbb{R}$

b Explain reading and printing character and strings with relevant examples.

13 a State the use of static variables in a function.

OR

b Compare and contrast 'Call by Value' and 'Call by Reference'.

14 a How will you pass pointer to a function? Give an example.

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- b Develop a Code to perform the following operations in a string 'happy birthday':
 - (i) Count the number of occurances of 'a'
 - (ii) find the length of the string
 - (iii) extract the substring 'happy'
- 15 a Outline the usage of command line parameters.

OR

b Bring out the function of bitwise operations.

SECTION -C (40 Marks)

Answer ALL questions

f ALL questions carry EQUAL Marks ($5 \times 8 = 40$)

16 a Enumerate data types in C.

OR

- b Explain the following
 - (i) Symbolic constants (ii) Mathematical functions in C library.
- 17 a Develop a C code to read and print 20 characters.

OR

b Explain the syntax of exit controlled loop.

18 a Elucidate passing one-dimensional array to a function.

OR '

b Justify the use of Recursive function with a relevant example.

19 a Elucidate structure within structure with student mark details.

OR

- b Develop a C code to perform the following string operations in a given string
 - 'Happy New Year'.
 - (i) Reverse the given string
 - (ii) Replace 'p' with 'q'
 - (iii) count the number of occurances of a given character
 - (iv) copy one string to another
 - (v) find the length of the string
- 20 a Elucidate binary file creation and its usage.

OR

- b Explain the following:
 - (i) enumerated data type (ii) bit fields.

z-z-z END