P P SAVANI UNIVERSITY

Second Semester of B. Tech. Examination

November 2022

SECE1010 Basics of Computer and Programming

7.12.2022, Wednesday

Time: 01:00 P.M. To 03:30 P.M.

Maximum Marks: 60

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In	C	rr	71	m	rı	n	P3	CI	

- 1. The question paper comprises of two sections.
- Section I and II must be attempted in same answer sheet.
 Make suitable assumptions and draw neat figures wherever required.
 Use of scientific calculator is allowed.

	SECTION - I			
Q-1	Define following:	AND CONTRACT OF	[05]	
(1)				
	(i) Software (v) Operating System			
(ii) RAM (vi) 3D Printing (iii) Artificial intelligence (vii) Debugging				
(iii) Artificial intelligence (vii) Debugging (iv) Data Science				
Q-2(a)	List five input and Output devices.			
Q-2 (b)			[05]	
C - (-)		OR	[05]	
Q-2(a)	Describe in detail the generation of computers.	OK	[05]	
Q-2(b)				
Q-3(a)	Write in detail about Data Science? Give example		[05] [05]	
Q-3(b)	Write in details about the Structure in C.		[05]	
	OR		[00]	
Q-3(a)	Write in detail about types of operating system		[05]	
Q-3(b)) What is an algorithm? Give Example.			
Q-4	Attempt any one/two.		[05] [05]	
(i)	What is a flowchart? Give a detailed description of flo	owchart symbols.		
(11)	Describe in detail the features of the C programming	language.		
	SECTION - II			
Q-1				
(i)	Answer the Following: (MCQ/Short Question/Fill in the Blanks)		[05]	
(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;			
(ii)	What is the result of logical or relational expression i	in C2		
.,	a) True or False	iii C?		
	b) 0 or 1			
	c) 0 if an expression is false and any positive nu	mber if an expression is true		
	d) None of the mentioned	an expression is true		
(iii)	Define C language			

	a) true	
	b) false	
	c) depends on the compiler	
	d) depends on the standard	
(v)	Which of the following are C preprocessors?	
	a) #ifdef	
	b) #define	
	c) #endif	
	d) All of the mentioned	
(vi)	How many number of characters can be used variable declaration?	
	a) 7	
	b) 127	
	c) 255	
	d) No limits	
(vii)	Which of the following is not possible statically in C language?	
	a) Jagged Array	
ATTOMACH LOS	b) Rectangular Array	
	c) Cuboidal Array	
	d) Multidimensional Array	
Q-2(a)	What do you understand by Array? Write its features	[05]
Q-2(b)	Describe the different operators according to their precedence.	
	OR	[05]
Q-2(a)	Write short notes on the following:	[05]
	i. Constant.	
	ii. Variable	
Q-2(b)	Write short notes on the following:	[05]
	i. Header file	
	ii. main()	
Q-3 (a)	What is the use of the conditional statement? Explain with the	
	program.	
		[10]
Q-3 (b)	What is a ternary Operator in C? How is it defined? Explain with an	[05]
	example.	
	OR .	
Q - 3 (a)	What is character array? Explain.	[10]
Q-3(b)	Explain various types of loops with syntax and example.	[05]
