Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



Faculty of Engineering End Sem (Even) Examination May-2018 EN3ES06 Computer Programming

Programme: B.Tech. Branch/Specialisation: All

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

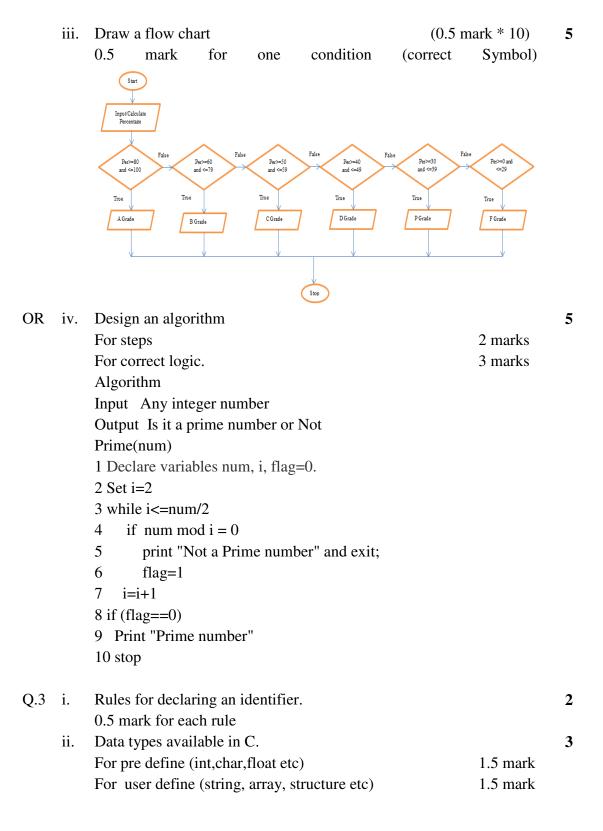
Q.1	i.	Executable program is loade	d into main me	emory by.	1
		(a) Compiler (b) Interprete	r (c) Linker	(d) Loader	
	ii.	An algorithm is finite set of			1
		(a) Program (b) Elements	(c) Instruction	ns (d) Values	
	iii.	How many times following	d?	1	
		for(i=0; ;i++) {}			
		(a) 1 time	(b) Infinite		
		(c) 10 times	(d) Error in lo	oop syntax	
	iv. Find the output of following program				1
		void main()			
		{			
		if(15)			
		printf("Hello Medi-Caps"			
		else			
		<pre>printf("Hi Medi-Caps");</pre>			
		}			
		(a) Hello Medi-Caps	(b) Hi Medi-	Caps	
		(c) Error	(d) None of t	hese	
	v.	Binary search is applied who		1	
		(a) List is sorted	(b) List is un	sorted	
		(c) Random Number	(d) All of the	se	
	vi.	Correct array declaration is		1	
		(a) a[3] (b) int a	(c) int [3]	(d) int a[3]	
					P.T.O.

	vii.	Structure is also known as?			1		
		(a) Homogenous data structur	re (b) Heterog	eneous data structure			
		` '	(d) Variable				
	viii.	Syntax of double pointer decl	aration?		1		
		(a) datatype *pointername	· ·	pointername			
		(c) datatype **pointername	(d) All of th				
	viii.	When file was not open then	•		1		
		(a) Address (b) NULL	(c) Value	(d) Error			
	ix.	Function used to read a line fa			1		
		(a) gets() (b) puts	(c) fgetc()	(d) fgets()			
Q.2	i.	Explain software developmen	nt life cycle in	short?	2		
	ii.	Write difference between con	npiler and inte	erpreter?	3		
	iii.	Draw a flow chart for the gra	ading the stud	ents in an University.	5		
		The grading is done according to the following rules:					
		Average marks	S	Grade			
		80-100		A			
		60-79		В			
		50-59		C			
		40-49		D			
		30-39		P			
ΩD	:	0-29	abaalsa tha ai	F	5		
OR	iv.	Design an algorithm which	_	ven number is prime	5		
		number or not prime number.					
Q.3	i.	Write rules for declaring an id	dentifier.		2		
	ii.	Explain data types available in C.			3		
	iii.	Write a program to print English alphabet with ASCII value in					
		C.					
OR	iv.	Explain all conditional statem	nents in C lang	guage?	5		
Q.4	i.	Explain recursion with examp	ole?		2		
	ii.	Write difference between c	call by value	and pass by value	3		
		function parameter passing	-	•			
	iii.	Write a program to search an	element from	list?	5		
OR	iv.	Explain any five string function			5		
		1 ,			-		

Q.5	i.	Explain structure with example?	2
	ii.	Write difference between structure and union.	3
	iii.	Why pointer is used in C programming language? Write a program for structure and pointer.	5
OR	iv.	What is dynamic memory allocation? Explain all functions used in C to allocate dynamic memory.	5
Q.6	i.	What is the significance of EOF?	2
V .0	ii.	Explain file opening modes in C?	3
	iii.	Write a program to copy the content of one file into another file	5
OR	iv.	Explain file handling functions used in C language.	5

Marking Scheme EN3ES06 Computer Programming

Q.1	i.	Executable program is loaded into main memory by	y.	1
		(d) Loader		
	ii.	An algorithm is finite set of		1
		(c) Instructions		
	iii.	How many times following loop is executed?		1
		$for(i=0; ;i++) \{ \}$		
		(b) Infinite		
	iv.	Find the output of following program		1
		void main()		
		{		
		if(15)		
		<pre>printf("Hello Medi-Caps");</pre>		
		else		
		<pre>printf("Hi Medi-Caps");</pre>		
		}		
		(a) Hello Medi-Caps		
	v.	Binary search is applied when?		1
		(a) List is sorted		
	vi.	Correct array declaration is		1
		(d) int a[3]		
	vii.	Structure is also known as?		1
		(b) Heterogeneous data structure		
	viii.	Syntax of double pointer declaration?		1
		(c) datatype **pointername		
	ix.	When file was not open then fopen() function return	n a	1
		(b) NULL		
	х.	Function used to read a line from file?		1
		(d) fgets()		
Q.2	i.	Software development life cycle	(0.5 mark *4)	2
		Analysis, design, coding and testing 0.5 for each		
	ii.	Difference between compiler and interpreter		3
		At least three difference 1 mark for each	(1 mark * 3)	



	iii.	Write a program to print English alphabet with ASC #include <stdio.h></stdio.h>	II value in C.	5	
		void main()			
		{			
		int/char a;			
		for(a=65/97/'a'/'A';a<=90/122/'z'/'Z';a++)			
		{			
		printf("%c ",a)			
		}			
OR	iv.	Explain all conditional statements in C language?		5	
		if, if-else, switch case 1.5 mark for each (1.5 marks * 3)			
		0.5 mark for example			
) .4	i.	Definition recursion	1 mark	2	
		Example	1 mark		
	ii.	Difference between call by value and pass by	value function	3	
		parameter passing At least three difference 1 mark for			
	iii.	Write a program to search an element from list?		5	
		Declaration	1 mark		
		Input	1 mark		
		Looping and condition logic	2 marks		
		Output	1 mark		
OR	iv.	Any five string functions with calling statement.	(1 mark * 5)	5	
		1 mark for definition and calling statement of each fu	inction		
Q.5	i.	Definition structure	1 mark	2	
V		Example	1 mark	_	
	ii.	Difference between structure and union.		3	
		At least three difference (1 mark for each)	(1 mark * 3)		
	iii.	Pointer is used in C programming language	(5	
		Reason	1 mark		
		Pointer declaration	1 mark		
		Structure declaration	1 mark		
		program for structure and pointer	2 marks		
OR	iv.	Definition dynamic memory allocation	1 mark	5	
		All functions used in C to allocate dynamic memory	4 marks		
		1 mark for each function			

Q.6	1.	Significance of EOF with example		2
		It simply indicates that the end of file has been	reached then the	
		reading should be terminated.	1 mark	
		Syntax: fgetc(fp)) != EOF	1 mark	
	ii.	Explain file opening modes in C	(1 mark * 3)	3
		Al least three modes (1 mark for each)		
	iii.	ii. Program to copy the content of one file into another file		
		File pointer declaration and opening file	1 mark	
		read data from file	1 mark	
		write data into file	1 mark	
		copy all content into file	2 marks	
OR	iv.	File handling functions used in C language.	(1 mark *5)	5
	At least 5 functions with definition and syntax (1 mark for each)			
