Total No. of Questions: 6	Total No. of Printed Pages:2
$j \geq 1$, , , , , , , , , , , , , , , , , , ,

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Faculty of Science End Sem (Even) Examination May-2022 CH5SE01 Computer for Chemists

Programme: M.Sc. Branch/Specialisation: Chemistry

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.

- `	_	<i>'</i>	•		
Q.1	i.	A CPU contains-			1
		(a) A card reader and a printing	ng device		
		(b) An analytical engine and a	control unit		
		(c) A control unit and an arith		it	
		(d) An arithmetic logic unit ar	_		
	ii.	Which of the following are the			1
			(b) Monitors a		
		(c) Manages disks and files	` ′		
	iii.	Which of the following is not			1
		(a) Float (b) Char		(d) Real	
	iv.	A C variable cannot start with		(0)	1
			(b) A special s	symbol	_
		(c) Both (a) and (b)	. ,	•	
	v.	For Van der Waals Equation,	•		1
			(c) 4	(d) 1	_
	vi.	Distance between the centr	` '		s 1
		called .		o various grande accounts a	_
			(b) Bond leng	th	
		` '	(d) None of th		
	vii.	The feature of MS Exc			1
	, 11,	(a) Fill auto (b) Sorting	• •	•	_
	viii	By default, Footers are printed	` '	(a) Tuto complete	1
	, 111.	(a) First page (b) Last page		(d) Even pages	•
	ix.	Full form of PDF is-	(c) im pages	(d) Even pages	1
	IA.	(a) Portable Document Forma	t (b) Por	rtable Design Format	1
		(c) Portable Data Format	` '	one of these	
		(c) I oftable Data I offilat	(a) 140		P.T.O.

[2]

	Χ.	RTF is a type of-		1
		(a) Image format	(b) Text file format	
		(c) Video format	(d) None of these	
Q.2		Attempt any two:		
	i.	-	he basic symbols of the flowchart. Draw a	5
			and calculate the area of the circle.	_
	ii.	Write down four differences Is RAM a volatile or non-vol	between volatile and non-volatile memory.	5
	iii.		algorithm to calculate simple interest.	5
		Attempt any two:		
Q.3	i.		of Input and Output format statement in	5
			ogram to input the string "LOCKDOWN	
	ii.	INDIA" from user and displa	statement in C with examples.	5
	iii.	•	by 3 built in data types and their size in C.	5
	1111.	What is data type. Explain as	if 5 built in data types and then size in C.	
		Attempt any two:		
Q.4	i.	-	ion. Write a C program for it. Assume data	5
		of your choice.	1. 1	_
	ii.	choice choice	alate lattice energy. Assume data of your	5
	iii.		mine the half-life in a radioactive decay.	5
		Assume data of your choice		
Q.5		Attempt any two:		
	i.		l footer. Can we apply same header on	5
		alternate page of word file?		
	ii.	What is chart? Discuss four t	· -	5
	iii.	Explain cell formatting include	ding border and shading.	5
Q.6		Attempt any two:		
	i.	• •	in any two category of search engines.	5
	ii.	What is PDF? Write any four	uses and advantages of it.	5
	iii.	Write short note on-	(h) Wah Camara	5
		(a) Scanning	(b) Web Camera	

Scheme of Marking



Faculty of Science End Sem (Even) Examination May-2020 Computer For Chemists (T)-CH5SE01

Programme: M.Sc.

Branch/Specialisation:

Note: The Paper Setter should provide the answer wise splitting of the marks in the scheme below.

Q.1	i)	c	1
	ii)	d	1
	iii)	d ·	1
	iv)	a Section 1997	1
	v) ,s	c	1
	vi)	A b	1
•	vii)	£ 9.	1
	viii)	C	1
	ix)	a	1
	x)	b	1
Q.2	i.	What is flowchart? Explain the basic symbols of the flowchart. Draw a flowchart to enter the radius and calculate the area of the circle Input -0.5 mark Logic -1 mark Output -0.5 mark	1+2+2
	ii.	Write down four differences between volatile and non-volatile memory. Is RAM a volatile or non-volatile memory?	4+1
	iii.	What is algorithm? Write an algorithm to calculate simple interest. Input -1 mark Logic -1 mark Output -1 mark	2+3
Q.3	i.	Explain the syntax and use of Input and Output format statement in C language. Write a C program to input the string "LOCKDOWN INDIA" from user and display it on screen.	2+3

		Input -1 mark Logic -3 mark	
		Output -1 mark	
	ii.	Explain break, continue, goto statement in C with examples. Break with example- 2 mark Continue with example-2 mark Goto with example-1 mark	5
	iii.	What is data type? Explain any three built in data types and their size in C. Three data types 1 mark each	2+3
Q.4	i.	Explain Van der Waals equation. Write a C program for it. Assume data of your choice. Input -0.5 mark Logic -2 mark Output -0.5 mark	2+3
	ii.	Write a C program to calculate lattice energy. Assume data of your choice Input -1 mark Logic -3 mark Output -1 mark	5
	iii.	Write a C program to determine the half-life in a radioactive decay. Assume data of your choice. Input -1 mark Logic -3 mark Output -1 mark	5
Q.5	i.	Explain how to add header and footer in a word document. Write three uses of header and footer. Can we apply same header on alternate page of word file?	2+2+1
	ii.	What is chart? Discuss four types of chart in excel.	1+4
	iii.	Explain cell formatting including border and shading. Stepwise marking	5
Q.6	i.	What is search engine? Explain any two category of search engines.	1+4*
	ii.	What is PDF? Write four uses and advantages of it.	2+3
	iii.	Write short note on a)Scanning b) Web Camera	2.5+2.5
