0 (0 1) (1) (2) (3) (4) (5) (6) (7) (8)	1	0 1 2 3 4 5 6 7 8		0 1 2 3 4 5 6 7 8 9	S	0 1 2 3 4 5 6 7 8 9 PUT	0 1 2 3 4 5 6 7 8 9 FER TION	N - A	(Ma	ark	ISS( s 15)		
10-1	<u> </u>		11.73					wed					nd
Sec	tion-A ded ov	is con er to t	ipulsor he Invi	y. Al gilat	r pan or, D	s or eleti	ng/o	verw	ritin	are g is	not	e answered on this page a allowed. <b>Do not use lead</b>	ıu
pen	cil.	•	correct	-	, :					-	-		
Q.1.	(1)											70s when microcomputer w	/as
	(1)		duced?		Syst		vvu3		Jope	, u			
		Α.	Windo						0	A CONTRACTOR OF THE PARTY OF TH	B	DOS	0
		C.	Macin	tosh	s OS	X			0	4 .	D.	UNIX/LINUX	0
	(2)	Whic	h part	of op	eratir	ng s	yster	m ma	nag	es t	he a	llocation of computer resou	ırces
		to va	rious p	roces	sses	in th	e me	emor	y?	>			
		A.	Memo	ry m	anag	eme	ent	S. Car	0	(	B.	Process management	0
		C <sub>.</sub>	File m						0		D.	I/O management	0
	(3)					12						ole programs, threads, task	.,
											tes ti	hem at the same time by	
			ly switc	2-21	-	CPU	amo	ongs	_	_			
		A	Multith		•				0	,	B)	Multitasking	0
	(4)	C.	Multip			- y .			0		D.	Multiprocessing	0
	(4)								eps t	hat	need	d to be followed to develop	an
			nation s				wn a	S:	•				_
			Analyti Progra				_		0,		3.	Design cycle	. 0
		0.	riogra	III SP	ecinc	auo	,		0	Ę	9)	System development life cycle	0
	(5)	Which	is use	d to a	asses	s th	e st	reng	ths a	and	weal	knesses of a proposed	
			re/syst										
			Defining						0		3.	Planning phase	0
	. 6	F	easibil	ity st	udy				0	[	<b>)</b> .	Analysis phase	0
	Ž											• • •	J

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The first step in the system development life cycle is:

						0.0 10.	
Α.	Ar	nalysis		0	В.	Design	0
C	Pr	oblem Ide	entification	0	D.	Development and Documentation	0
(7) WI	hat is	the range	of unsigned s	nort inte	ger?		
A.	-2	21474836	48 to 21474836	647 O	В.	0 to 4294967295	0
С		32768 to 3	32767	0.0	(D).	0 to 65535	0
(8) V	/hich	of the follo	owing is an arith	metic o	perator	?	
Α		3.8		0	<b>(B)</b>	%	0
		<=	•,	0	D.	++	0
	J. The n	umber of b	vtes reserved for	or a varia	able of	data type 'float' is:	
	A.	2	in the second	0	B	4	0
	C.	6		0 2	D.	8	0
(10)	O. How		e statement for	loop tern	ninated	?	
(10)	Α.	with a col		0	B	With a right brace	0
	C	with a rigi	nt bracket	0	D.,	with a semicolon	0
(11)	In w	nich situatio	on a do while loc	p is mor	e appro	priate to use?	0
(***)	A	when the	body of the loop	is to be	execut	ed at least once	0
	В.	when the	loop terminates	unexped	ctedly		0
	C.	when the	program execu	es at lea	st once	in advance	0
	D.	when the	number of loop	iteration	s are Kr	nown in advance	
(12				control	to the b	eginning of the loop, skip	p5
	the		statements?	) O 2	(B.)	continue statement	0
	Α.	exit func		.0	D.	memory slot	0
,	C.	expansion	on slou	,-		nt in array named temp?	
(1)	3) VVN	temp[0]	nowing identines	0	В.	temp[1]	0
	C	temp(1)		0	D.	temp(0)	0
(14	0. 1) Give	en the follo	wing:				
(,	,		,10,12,27,12},{2	1,20,18,2	25,1},{1	5,16,17,44,4}}	
		at is in k[1][		,			
	Α.	12		0	В.	18	0
	6	25		0	D.	15	0
(15)	•		ex number of the	e last ele		of an array with 30 eleme	nts?
(,,,)	Α.	Ó		0	В.	30	0
	6	20		0	ח	Programmer defined	

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## COMPUTER SCIENCE HSSC-I

<sup>0)ect</sup> teachers in the meeting				fom	
lers in	•				
the me		1	allo	COMPUTER SCIENCE HSSC-I	
eeting		oto	Α.		
-	. •	ote.	. Ai	Total	l Marks: 60
				Total iswer any twelve parts from Section 'B' and attempt any two questions on the separately provided answer book. Write your answers neatly a  SECTION – B (Marks 36)	from Section
				SECTION - B (Marke 36)	nd regiony,
	C	1.2.	At	tempt any TWELVE parts from the following. All parts carry equal mark	
			i.	State any three DOS commands with their functionality.	
	í		ii.	Write any three differences between process and thread.	(3)
			iii.	Describe Time-sharing Operating system and their working. How the	(3)
				impression to each user of having their own CPU?	(3)
			iv.	4. 20.	(3)
			٧.	Describe the key roles of a System analyst in system development life	
			vi.	Differentiate between Direct and Phased implementation method in	
)				development. What happens to the old system in both methods?	(3)
	1	,	vii.		(3)
			viii.	What is the purpose of using header file in a program? Explain	using an
				example with syntax.	(3)
			ix.	State whether the following variable names are valid or invalid. State th	e reason
				for invalid variable names: A345, _dfgh, 5yhn, hunt, C\$fg, cin	(3)
			x.	Write down a program that reads a number and prints whether it is eve	(3)
				number.	(3)
			xi.	Differentiate between if-else and else-if statements.  Describe the usage of continue statement in for loop with a C++ progra	
			χίί.		(3)
am.	1		xiii.	example.  Differentiate between one dimensional and two dimensional array v	• •
1			VIII.	example of their declaration.	(3)
			xiv.	What is the purpose of size of() function? Elaborate with one example.	(3)
	1,0		XV.	State the structure of a C+# program.	(3)
			xvi.	Elaborate the use of setw manipulator with its syntax. Which heade	r file is
	73			required to use it?	(3)
	;				
				SECTION - C (Marks 24)	
	٨	IOTE			<b>&lt;12=24</b> )
	۵	1.3.		define process in an operating system and describe its five stages.	(6)
				escribe the purpose of the following functions with an example.	· · (6)
			i.	getch() ii. getche() iii. gets()	
	Cla	iss: )	KII	Page: 4 of 5 Subject: Computer S	cience

Q.4. a. Write the nested loops that will print the following patterns.

(573)-

12345 1234 123 12

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- b. Write a program that reads ten numbers in an array and print them in reverse order.
- Q.5. a. Explain the purpose of switch statement and write its syntax. Give one example of using switch statement in C++ program. (3+3)
  - b. Write program that calculates and prints the sum of the following sequence of numbers: 40, 44, 48, 52, .......,80.

    Use both for and while loop.