	DEPARTMENT OF COMPUTER SCIENCE								
	Course Code:	10AE11	Programme:	B.Sc. Computer Science	CIA:	III			
	Date:	19.11.2022	Part:	III	Semester:	Ι			
	Duration:	2 Hours	Academic Year:	2022-23	Max. Marks:	50			
	Study Component:		Ability Enhancement Course						
	Course Title:	DISCRETE	MATHEMATICS						

SECTION – A (Remembering)

Answer	r ALL the Questions: $(10 \times 1 = 10)$	Marks)
1	Individual Objects in a set are called	CO1
	A) Element B) set C) list D) None of above	
2	A group or collection of objects is called	CO1
	A) Element B) set C) list D) group	
3	If $A = \{p,q,r,s\}, B = \{r,s,t,u\}, then A \setminus B$ is	CO1
-	$(A)\{p,q\} (B)\{t,u\} (C)\{r,s\} (D)\{p,q,r,s\}$	
4	A finite non-empty set of symbols is called	CO1
-	A alphabet B letter C string D language	cor
5	definitions can be used to solve counting problems	CO4
J	A Recursion B Recursive C Recurrence D Function	0.04
6	A. Recursion D. Recursive C. Recurrence D. Function	CO4
U		04
	Cases.	
7	A. Mainematical induction B. Reculsive C. Recultence D. Function Find the concepting function for the infinite acquered 1, 2, 0, 27 Where 2 is a fixed	CO4
/	Find the generating function for the infinite sequence 1, 5, 9, 27 where 5 is a fixed	004
	constant A $1/1$ 2 - D $1/1$ 2 - C 1 2 - D 2 - 1	
0	A. 1/1-3Z B.1/1-2Z C. 1-3Z D.3Z-1	004
8	is also a useful way for defining objects that have a repeated similar structural	CO4
	torm.	
_	A. Recursion B. Recursive C. Recurrence D. Function	
9	The numbers in the sequence 0, 1, 2, 3, 5, 8, 13, 21, in which each new term is the sum of	CO4
	the previous two terms are called	
	A. Factorial B. Fibonacci C. Recurrence D. Function	
10	A of integers is a function from the natural number to integers	CO4
	A. Sequence B. series C. Function D. none	

SECTION – B (Remembering)

Answe	er any FIVE Questions:	(5 X 2 = 10 Marks)
11	Define Permutation	C01
12	Define Combination	C01
13	Define Fibonacci series	CO4
14	Write the term Recursion	CO4
15	Write the formula for Generating function	CO4
16	Define Mathematical Induction	CO4
17	Write the term: sequence.	CO4

SECTION – C (Understanding)

Answer any THREE Questions: (3 X 6= 18 Marks) 18 If n(A) = 25, n(B) = 40, n(A∪B) = 50 and n(B') = 25, find n(A∩B) and n(U). CO1 19 In a class, all students take part in either music or drama or both. 25 students take part in music, 30 students take part in drama and 8 students take part in both music and drama. Find (i) The number of students who take part in only music and only drama (ii) The total number of students in the class.

- **20** Find the recurrence relation, satisfying $y^n = A(3)^n + B(-2)^n$ **CO2**
- **21** Find the generating function for the infinite sequence 1, α , α^2 , α^3 Where α is a fixed constant **CO2**
- 22 Suppose that f is defined recursively by f(0) = 2, f(n+1) = 3f(n) + 2, Find f(1), f(2), f(3), f(4) CO4

SECTION – D (Applying)

Answer any **ONE** Question: (1X 12= 12 Marks) **23** a) Difference between permutation and combination **CO1** b) In how many ways can a team of 3 boys and 3 girls be selected from 5 boys and 4 girls?

24 Show that the sum of the first n integers is n(n+1)/2 for all n

CO4

		DEPART	MENT OF COMPU	JTER SCIENCE		
	Course Code:	10AE31	Programme:	B.Sc. Computer Science	CIA:	IJ
	Date:	19.11.2022	Part:	III	Semester:	II
	Duration:	2 Hours	Academic Year:	2022-23	Max. Marks:	5
RIFERRE	Study Compo	nent:	Ability Enhance	ment Course		
	Course Title:	OPERATIO	NS RESEARCH			
	:			•)		
newei	r ALL the Question	SECI	ION – A (Remembe	ring)	10 X 1 - 10 Mark	e)
115 WCI	Objective of linear	s. . programming f	or an objective function	on is to	$10 \land 1 = 10$ what k	12 12
I	A maximize or mi	programming to	ubset or proper set mo	odeling]4
	C row or column	modeling D a	diacent modeling	Acting		
2	Shaded area to rep	resent solution s	et is classified as		CC)2
-	Δ closed half space	resent solution s	space C positive	full space D negativ	e full space	
3	In linear program	ning most popul	lar non-graphical prod	redure is classified as)2
5	A linear programm	h non-grant	nical procedure c g	raphical procedure d	l simplex	14
	method	e of non grup	neur procedure e. g		i. shiipiex	
4	The two forms of I	PP are			CC)2
-	a standard form at	nd canonical for	 mb_standard form a	and general form.		
	c. matrix form and	canonical form	d matrix form and	standard form		
5	The Hungarian me	thod for solving	an assignment proble	em can also be used to	solve CC)4
 A, linear procedur method The two forms of 1 a. standard form and c. matrix form and The Hungarian met (a)a transportation 	problem (b) a	traveling salesman p	roblem (c)both (i)	and(ii)		
	(d)only(ii)		automig suresman p			
6	In an assignment p	roblem.			CC)4
U	(a) One agent can	do parts of sever	al tasks (b) One tas	k can be done by seve	eral agents	-
	(c) Each agent is a	ssigned to its ow	n best task(d) None o	of the above	8	
7	. If number of row	s and columns	equal to number of al	llocated zero's then the	ne problem is CC)4
	called		1		1	
	a. Balanced b. u	nbalanced c. op	timum d. not optir	num		
8	The unbalanced as	signment proble	m is said to be		CC)4
	a. rows=columns	b. rows≠colı	umns c. order of	matrix=assigning zero	o's d. none	
	On travelling sales	man problem sta	aring city and ending	city should be	CC)4
9	a e	h not some	c different d n	ione		
9	a. Same	U. HUL Same	et annerente at n			
9 10	a. Same .In assignment pro	blem if number	of rows is greater that	n column then	CO)4
9 10	a. Same .In assignment pro a. dummy column	blem if number is added . b.du	of rows is greater that mmy row added .	n column then c. row with cost 1	CC is added.)4

Answe	r any FIVE Questions: (2)	5 X 2 = 10 Marks)
11	Define LPP	CO2
12	How many variables are need to solve graphical method	CO2
13	Define Assignment problem	CO4
14	Define unbalanced Assignment problem	CO4
15	Define maximization case in Assignment problem	CO4
16	List any two advantages of LPP	CO4
17	If Max $Z = 5x1 + 10x2$ the feasible points are (5,7),(10,0) and (7,8) what will be	be the CO4
	answer?	

Answei	r any THRI	EE (Quest	ions:			× ×		0,		(3 X 6= 18	Marks)
18	Explain pr	roced	dure t	to so	lve g	raph	ical method					CO2
19	Solve grap	ohica	ally th	ne fo	llowi	ing L	_PP					CO2
	Maximize	e Z =	= 300	$X_1 +$	200	\mathbf{X}_2						
	Subject to)										
	$5X_1 + 2X_2$	$2 \leq 1$	180									
	$3X_1 + 3X_2$	$2 \leq 1$	135									
	and X ₁ ,X ₂	$2 \ge 0$										
20	Solve the	Assi	gnme	ent P	roble	em						CO4
				Jo	obs							
			J1	J2	J 3	J4	J1					
		A	8	4	2	6	1					
		B	0	9	5	5	4					
	Persons	С	3	8	9	2	6					
		D	4	3	1	0	3					
		Ε	9	5	8	9	5					
21	Solve the	Assi	gnme	ent P	roble	em						
				Jo	bs							
			J1	J2	J 3	J4						
		A	10	5	13	15						
		B	3	9	18	3						CO4
	Persons	С	10	7	3	2						
		D	5	11	9	7						
22	Explain H	unga	arian	algo	rithn	1						CO4
						CT		(1	•)			
A 19 01110		0	otion			51	$LC \Pi ON - D$	(Apply)	ing)		1 1 1 1 1 1	Manlea
Allswei	Lice grouph		stion	l: odat				C	04	(1A 12= 12	
23	Ose graph	$\overline{7}$	metri 5 v	ous i evro	o soi	lve u	le LPP		04			02
	Subject to	I Z–	$JX_1 +$	- 082	,							
	$15\mathbf{x}_{\perp} + 10\mathbf{x}_{\perp}$	v. <	180									
	$10x_1 \pm 20x_2$	$\mathbf{x}_2 \leq \mathbf{x}_2 \leq \mathbf{x}_2$	200									
	$10x_1 + 20x_1$ $15x_1 + 20x_2$	$\mathbf{x}_2 \leq \mathbf{x}_2$	200									
	$\Delta nd x_1 x_2$	$\sim 2 - 1$	210									
24	Solve the	<u>2 -</u> 0 A ssi	σnme	ont P	roble	m to	oget Maximiz	ze profit				CO4
27	borve the	1 1001	Suur	Torr	itari	лп (0 Ас	, get Maximiz	le prom				004
			Т1	T2	T1	CS T	4					
		Δ	60	50	40	, T. 3U	-)					
		R	40	30	20	15	5					
	Persons	C	40	20	20	10)					
		D	30	30	25	20)					

	DEPARTMENT OF COMPUTER SCIENCE									
	Course Code:	10CT11	Programme:	B.Sc. Computer Science	CIA:	III				
	Date:	15.11.2022	Part:	III	Semester:	Ι				
	Duration:	2 Hours	Academic Year:	2022 - 23	Max. Marks:	50				
	Study Compo	ient:	Core Course							
	Course Title:	PROGRAMM	AING IN C							

SECTION – A (Remembering)

Answer	ALL the Questions:	(10 X 1 = 10 Marks)								
1	An external variable is one	CO4								
	A. which is globally accessible by all functions.									
	B. which is declared outside the body of any function.									
	C. which resides in the memory till the end of the program.									
	D. which is locally accessible by all functions									
2	If a storage class is not mentioned in the declaration then default storage class	iss CO4								
	is									
	A. automatic. B. static. C. external. D. register.									
3	The structure combines variables of	CO4								
	A. similar data types. B. dissimilar data types. C. unsigned data types	D.								
	signed data types.									
4	The pointers can be used to achieve	CO4								
	A. call by function. B. call by reference. C. call by name. D. call b	y procedure								
5	Pointer is variable that stored	CO5								
	A. an address value represented in hexadecimal.									
	B. an address value represented in octal.									
	C . the address of another variable.									
	D. an address value represented in binary.									
6	C language is available for which of the following Operating	CO5								
	Systems?									
_	A. DOS B. Windows C.Unix D.All of these									
7	A file opened in w+ mode can be	CO5								
0	A. read AND write. B. only read. C. only write. D. only close	~~~								
8	The function fopen() on failure returns	CO5								
0	A 0 B NULL C 1 D none of the above	~~~								
9	A file opened in r mode can be	CO5								
4.6	A. read AND write. B. only read. C. only write. D. only close.	~~-								
10	The goto statement transfers the control	CO5								
	A. any place in the program. B. exit C. counter loop D. file.									

SECTION – B (Remembering)

Answe	r any FIVE Questions:	(5 X 2 = 10 Marks)
11	Define Function	CO4
12	Give any two advantages of function	CO4
13	Define structure	CO5
14	Define union	CO5
15	Define file	CO5
16	If $p=\&x[0]$ (1000) what is the answer of $p+1$?	C05
17	Give different types of file modes	CO5

SECTION – C (Understanding)

Answe	er any THREE Questions:	(3 X 6= 18 Marks)
18	Explain about structure	CO4
19	Explain about Arrays of structure with example	CO4
20	Explain about scope, lifetime of variables	CO5
21	Write short notes on pointer	CO5
22	Write procedure to open and close a file	CO5

SECTION – D (Applying)

Answer	any ONE Question:	(1X 12= 12 Marks)
23	Write a C program to get employee details using structure	CO4
24	Explain about various file operations	CO5

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DEPARTMENT OF COMPUTER SCIENCE									
	Course Code:	10CT12	Programme:	B.Sc. Computer Science	CIA:	III			
	Date:	18.11.2022	Part:	III	Semester:	Ι			
	Duration:	2 Hours	Academic Year:	2022 - 23	Max. Marks:	50			
AND HEARING	Study Compo	nent:	Core Course						
	Course Title:	DIGITAL PF	RINCIPLES AND C	OMPUTER ORG	ANIZATION				
		SECT	ION – A (Remember	ring)					
Ansv	wer ALL the Questions	5:	·	(10 X 1 = 10 Marks	s)			
1	The format is	usually used to	store data.		CO	4			
	a) BCD b) Decimal	c) Hexadecimal	d) Octal						
2	The 8-bit encoding fo	rmat used to sto	re data in a computer	is	CO	4			
2	a) ASCII b) EBCDI	C c) ANCI c	1) USCII	9	CO				
3	which memory devic	e is generally m	ade of semiconductors	S?	CO	4			
1	a) KAIVI D) Hard-dis	East RAM's are	called as		CO	1			
-	a) Cache b) Heaps	c) Accumulate	ors d) Stacks		CO	-			
5	The decoded instructi	on is stored in	is a) stacks		CO	5			
·	a) IR b) PC c) Regis	sters d) MDR			00	-			
6	In the case of, Zero-ad	ddress instructio	n method the operand	s are stored in	CO	5			
-	a) Registers b) Accur	nulators c) Pus	h down stack d) Cac	he	CO	_			
1	a) Immediate b) Dire	, where you dire	(1) Relative	1d value 1s	CO	5			
8	Individual control wo	rds of the micro	routine are called as		CO	5			
U	a) Micro task b) Micro	ro operation c)	Micro instruction d) M	ficro command	00	e			
9	The DMA controller l	has reg	isters.		CO	5			
	a) 4 b) 2	c) 3	d) 1						
10	The special memory u	ised to store the	micro routines of a co	mputer is	CO	5			
	a) Control table b) Co	ontrol store c) C	ontrol mart d) Contro	l shop					
		SECT	TON – B (Remember	ring)					
Ansv	wer any FIVE Question	ns:			(5 X 2 = 10 Marks)	5)			
11	List the types of shift	registers				4			
12	Give the types modes	in Parallel-In-S	erial-Out?			4			
13 14	List the types of Instr	erand.	te			5 5			
14	Define MAR?	uction set forma	15.			5			
15	Define MDR?				CO	5 95			
17	What is meant by Mic	ero Architecture	?		CO	5			
	2	SECT	ION – C (Understand	ding)					
Ansv	wer any THREE Ques	tions:			(3 X 6= 18 Marks	s)			
18	Brief a note bi-directi	onal shift registe	er?		CO	4			
19	Discuss about the Uni	versal shift regi	ster?		CO	4			
20	Describe the types of	bus structures u	sed in a computer?		CO	5			
21	write note on zero ins	struction format	retruction avalation acres	putor?	CO	5			
22	Discuss on the steps inv		TION D (Annlyin	a)	CO	3			
Anev	wer any ONE Question	n. SEV		g)	(1X 12= 12 Marks	s)			
23	Explain any three type	 es of shift registe	ers.) 4			
24	Explain the computer	architecture and	l its roles?		CO	5			
	- •								

	DEPARTMENT OF COMPUTER SCIENCE						
	Course Code:	10CT31	Programme:	B.Sc. Computer Science	CIA:	III	
	Date:	15.11.2022	Part:	III	Semester:	III	
	Duration:	2 Hours	Academic Year:	2022 - 23	Max. Marks:	50	
HAND HEART HEAD	Study Compor	nent:	Core Course				
	Course Title:	COMPUTER	NETWORKS				

SECTION – A (Remembering)

Answer	ALL the Questions: (10 X 1 = 10 Marks)
1	All of the parts in a computer talk to each other by sending CO4
	A. digital signals B. smoothly varying signal waves
	C. analog signals D. light
2	The inner core of an optical fiber is in composition. CO4
	A. glass or plastic B. bimetallic C. copper D. liquid
3	Which of the following is not a standard synchronous communication protocol? CO4
	A. SDLC B. SLIP C. SMTP D. PAS.
4	IPV6 has bit addresses. CO4
_	A. 32 B. 4 C. 128 D. variable
5	The amount of uncertainty in a system of symbol is called CO5
	A. bandwidth B. entropy C. loss D. Quantum
6	The inner core of an optical fiber is in composition. CO5
_	A. glass or plastic B. bimetallic C. copper D. liquid
7	Which transmission media has the highest transmission speed in a network? COS
0	A. coaxial cable B. twisted pair cable C. optical fiber D. electrical cable
8	A device that links two homogenous packet-broadcast local networks is COS
0	A. hub B. gateway C. repeater D. bridge
9	Which of the following is not a connecting device? COS
10	A. Bridge B. Gateway C. Transceiver D. Hub.
10	A modem is connected in between a telephone line and a Cos
	A. network B. computer C. communication adapter D. serial port
A m current	SECTION – B (Remembering) $(5 \times 2 - 10 \text{ Marke})$
Allswei 11	Define Network layer
11	What is meant by IP?
12	Define Protocols?
13	Expend : E-mail WWW CO5
17	Define Cryptography CO5
15	Define Encryption?
10	Explain digital signature CO5
1,	SECTION – C (Understanding)
Answer	any THREE Ouestions: (3 X 6= 18 Marks)
18	Brief a note on design issue of Network layer.
19	Explain the IP address. CO4
20	Difference between TCP and UDP CO5
21	Brief a note on E-mail. CO5
22	Elaborate the public key algorithm. CO5
	SECTION – D (Applying)
Answer	any ONE Question: (1X 12= 12 Marks)
23	Explain the routing Algorithm CO4
24	Enumerate on the characteristics of DNS CO5

			DEPART	MENT OF COMPU	TER SCIENCE		
Tarran		Course Code:	10CT32	Programme:	B.Sc. Computer Science	CIA:	III
		Date:	18.11.2022	Part:	III	Semester:	III
		Duration:	2 Hours	Academic Year:	2022 - 23	Max. Marks:	50
Study Component: Core Course							
		Course Title:	COMPUTER	GRAPHICS			
			SECT	ION – A (Remember	ring)		
Ans	wer Al	LL the Questions:			8/	(10 X 1 = 10 Ma)	rks)
1	A wor	rld coordinate area	selected for disp	lay is called) (CO4
	Viewp	port b) Transfe	ormation c) R	Rasterization	d) Window		
2	A pro	cedure that identified	es those portions	of a picture that are e	ither inside or outsid	e of a specified (C O4
	regior	or space is called					
•	a) con	nposite transformat	ion b) Clippin	ng c) Areafill	d) floodfill algorithm	1	204
3	10 set	ine width attribute	es in a PHIGS pa	ackage, function	18 USED	inawidth(1w)	204
4	The re	ctangle portion of the	e interface window	w that defines where the	image will actually ap	pear is called (~ 0 4
-	a) Vie	export b) clipping	g window c) s	creen coordinate d)t	ransform viewing		204
5	Coord	linates of a viewpoi	rt are known as _	,	8	(C O 5
	a) woi	rld coordinates	b) polar coordina	ates c) screen coo	rdinates d) Cartesi	an coordinates	
6	Trans	lation of a two dime	ensional point ca	an be done by adding _		(C O5
	a) '	Translation distance	es b) translation	difference c) translation	on points d) repositio	ning	
7	In	mode the application	on program initia	ites the data entry whe	ere the input values a	re received (C O 5
0	a) Red	quest b) Sample	c) Event	d) Locator			205
8	The sy	weep representation	1 of an object ref	ers to the		(205
0	2D re	presentation D)	3D representation	on c) 4D representation	ir distance from the x	iewing (202
9	nositi	on is called	le intensity of ot	jects according to the		(Tewing C	.05
	a) par	allel projection	b) perspective pr	rojection c) depth cr	ueing d) surfac	e rendering	
10	is	used to add realism	n to displays by	setting surface intensi	ty of objects accordir	ng to light (C O 5
-	condi	tions in a scene.	1 5 5	8	5 5	0 0	
	a) sur	face identification	b) surface r	rendering c) explode	d view d)3D ima	age	
			SECT	ION – B (Remember	ring)		
Ans	swer an	y FIVE Questions:				(5 X 2 = 10 Ma)	rks)
11	Give	any two viewing fu	nctions in 2D?			(CO4
12	List th	ie types of clipping	?			(CO4
13	Define	e point clipping?	a ati a n a l			(205
14 15	List tr	a Projection?	nctions?				205
15	Defin	e Depth cueing?					205 205
17	Give	three dimensional v	viewing transform	nation nineline?			203 205
17	Give	linee dimensional v	SECT	ION – C (Understand	ding)	· · · · ·	205
Ans	swer an	y THREE Ouestio	ns:		- 8/	(3 X 6= 18 Ma	rks)
18	Distin	guish point clippin	g and line clippi	ng?		(CO4
19	Critic	ally analyze input f	unctions used in	graphical user interfa	ces?	(C O4
20	Brief	a note on types of i	nput modes grap	bhical user interfaces?		(C O 5
21	Sumn	narize on Window-	To-Viewport coo	ordinate Transformation	on?	(C O 5
22	Discu	ss on types of proje	ection methods?			(C O 5
			SEC	CTION – D (Applyin	g)	(137 40 4035	•
Ans	wer an	y ONE Question:		.0		(1X 12 = 12 Ma)	rks)
23	Expla	in in detail on clipp	and its types	b!		(204 205
24	Enum	erate on interactive	picture construc	&&&&&&		(203

		DEPART	MENT OF COMPU	TER SCIENCE		
~~~	Course Code:	10CT51	Programme:	B.Sc. Computer Science	CIA:	III
	Date:	16.11.2022	Part:	III	Semester:	V
	Duration:	2 Hours	Academic Year:	2022 - 23	Max. Marks:	50
HEARD	Study Compo	nent:	Core			
	<b>Course Title:</b>	PYTHON PR	ROGRAMMING			
		SECT	TION – A (Remember	ing)		
Answer 1	ALL the Questions: What will be the ou >>>"a"+"bc"	: itput of the follow	ving Python statement?	,	(10 X 1 = 10 Mark CC	s) )4
2	A. a B. b What arithmetic op	erators cannot be	a D. abc used with strings?	mantionad	CC	)4
3	A. + B. 4 Which function is u	use to find length	of the string.	e mentioned	CC	)4
1	A. find() What is a variable (	B. len()	C. index() D. jo	pin()	CC	14
+	A. A static variable C. A local variable	B. A D. A	global variable an automatic variable	:		/4
5	What is the output	for the below pro y, z = "Orange", '	gram 'Banana", "Cherry"		CC	)5
6	A. Orange B B Which is the follow A. // (floor division	anana ying is an Arithm ) operator	C. Cherry etic operator in Python B. & (binary and) op	D. all the above ? erator	СС	)5
7	$C. \sim$ (navigation) of What will be the out	perator itput of the follov	D. >> (right shift) o ving Python statement?	perator >>>2**3	CO	)5
Q	A. 6 B. 8	C.7	D. 9			\ <i>5</i>
o	A. int B.fl	loat C. bo	bol D. dict			)5
9	Which function is u A. lower()	used to returns the B. strip()	e string in upper case. C. upper()	D. replace()	CC	)5
10	Which of the follow	ving is not a toke	n defined in Python?		CC	)5
	A. keyboard	B. comments SECT	S C. Literals	D. Operators <b>ing</b> )		
Answer	any <b>FIVE</b> Question	s:		8/	(5 X 2 = 10 Mark	s)
11	How to create a Tu	ple in python			CC	)4
12	Define random nun	nber with exampl	e		CC	)4
13	What is Dictionary	with example?				)5 )5
14	Define Sparse matr	ices				)5 )5
15	What is long intege	uers				)5 )5
10	Comment files in n	vthon				)5 )5
17	Comment mes m p	SECT	TON – C (Understand	ling)	CC	
Answer	any <b>THREE</b> Questi	ions [.]		iiig)	(3 X 6= 18 Mark	s)
18	Write a python prog	gram in find a du	plicate number in list.		CC	)4
19	Write a Nested list	with example.	<b>r</b>		CC	)4
20	Explain Dictionary	methods in pytho	on with example		CC	)5
21	Explain about pick	ling in python with	th example		CC	)5
22	Write a Exceptions	in python	-		CC	)5
	_	SE	CTION – D (Applying	g)		
Answer	any ONE Question	:			(1X 12= 12 Mark	s)
23	Construct the cloni	ng lists and List p	parameter with example	e.	CC	)4
24	Write a python prog	gram using matrix	x addition and substation	on	CC	)5

	VIVEKAN	IANDA COLL	EGE, TIRUVEDAE	KAM WEST - 625	234	
		DEPARTI	MENT OF COMPU	TER SCIENCE		-
	Course Code:	10CT52	Programme:	B.Sc. Computer Science	CIA:	III
	Date:	17.11.2022	Part:	III	Semester:	v
	Duration:	2 Hours	Academic Year:	2022-23	Max. Marks:	50
	Study Compo	nent:	Core	•	·	
	<b>Course Title:</b>	JAVA PROG	RAMMING			4
I		SECT		•		
Answer	ALL the Questions	SECI	1011 – A (Kemember	ing)	(10 X 1 = 10 Marks	3)
1	. is at the to	op of the exceptio	n class hierarchy.		CO	4
	A. try. B. thro	wable. C. ex	cception class. D.	catch.		
2	In java thread to the	read communication	ion is called		CO	4
	A. passing. B. se	nding. C. n	nessaging. D.	calling		
3	Which method will	contain the body	of the thread?		CO	4
	A. run () B. sta	rt () C. st	op () D. 1	main ()		
4	Runnable is	 		T. C	CO	4
_	A. Class B. Me	thod C. Va	Triable D	. Interface	CO	-
5	Graphics object car	n only be drawn o	n		CO	5
6	A. view. B. wind	special kind of I	Diplet. D. 2	200M. ignad to be transmitted	dover the CO	5
U	All IS a	special killu of Ja	ava program mat is des	igned to be transmitted	u over the CO	3
	A viewlet	B applet C	servlet D ob	iect		
7	AWT stands for			jeet.	CO	5
	A. abstract window	toolkit. B. ab	 stract window toolbar.		00	2
	C. access window t	oolkit. D. aco	cess window toolbar.			
8	Which of these Exc	eptions is thrown	by remote method?		CO	5
	A. RemoteException	B.	InputOutputException			
	C. RemoteAccessE	xception D.	RemoteInputOutputE	xception		
9	is an a	pplet tag.			CO	5
	A. (applet). B. 2	>applet<. C	. <applet>. D. <ap< td=""><td>plet tag&gt;.</td><td></td><td></td></ap<></applet>	plet tag>.		
10	When we invoke re	paint() for a JAV	A.awt.Component obj	ect, the AWT invokes	the CO	5
	A. update(). B.	draw(). C. s	show(). D. pa	int().		
	• · ·	SECT	TION – B (Remember	ing)		
Answer	any <b>FIVE</b> Question	s:			(5 X 2 = 10 Marks)	5)
11	Define Multithread	ing			CO	4
12	Define Multitasking	g_			CO	4
13	Write about awt pa	ckage			CO	5
14	Write any 5 HTML	tag			CO	5
15	Define RMI				CO	5
16	Define Servlet	A 1 / 1 A XX 77	Г		CO	5
17	Difference between	Applet and AW	l ION C (Understeind		CO	5
Anomor	any TUDEE August	SECI	ION – C (Understand	ling)	(2 V 6- 19 Monte	e)
18	Difference between	Multithreading	and Multitasking		$(\mathbf{J} \mathbf{A} \mathbf{U} - \mathbf{I} 0 \mathbf{W} \mathbf{I} \mathbf{A} \mathbf{K} \mathbf{S}$	5) 1
10	Explain about the T	Thread Priority	and widimasking			4 1
20	Define Applet Wri	te about local and	l remote annlet			- <del>1</del> 5
20 21	Write a simple proc	te about local and	ng java with Explanati	on	C0 C0	5
21 22	Explain about RMI	fram mappiet usi	ing java with Explanat	.011	00 CO	5
		SE	CTION – D (Annlying	a)		-
Answer	any <b>ONE</b> Ouestion	:		<b>-</b> /	(1X 12= 12 Marks	5)
23	Explain the Life Cy	cle of Thread			CO	4
24	Explain the Life Cy	cle of Applet			CO	5

			DEPARTI	MENT OF COMPU	TER SCIENCE	I	<del></del>
~	_	Course Code:	10CT53	Programme:	B.Sc. Computer	CIA:	III
		Date:	18.11.2022	Part:	III	Semester:	v
		Duration:	2 Hours	Academic Year:	2022 - 23	Max. Marks:	50
HANDHEAR	HEAD	Study Compo	nent:	Core	•		
		Course Title:	SOFTWARE	ENGINEERING			
					• ``		
Anci	vor A	II the Questions:	SECT	CION – A (Remember	ring)	$(10 \text{ V} 1 - 10 \text{ M}_{\odot})$	mlza)
Allsv 1	Whic	term is used to def	fine testing?			$(10 \times 1 = 10 \text{ Ma})$	TKS)
•	a) Ev	aluating deliverable	to find errors	b) finding broken	code	001	
	c) a s	tage of all projects		d) Configuration M	Management		
2	Whic	h of these are white	box testing techn	iques?		CO4	
	a) Sta	atement coverage tes	ting b) Decision	coverage testing c) I	Data flow testing		
2	d) Al	l of the above	• • • • • • • • • • • • • • • • • • •	4 Dl		004	
3	whice a) Sci	hedule b) Risk c	t a part of the Tes	d) Entry and exit crit	oria	C04	
4	Cycle	omatic complexity is	?	d) Entry and exit ente	cila	CO4	
•	a) WI	hite-box testing b)	Black box testing	c) Grey box testing	d) cleanroom testing	001	
5		_abstraction refers t	o a sequence of in	nstructions that have a	specific and limited fu	unction. a) CO5	
	Data	b) Procedural c) f	unctional d) dat	tastructure			
6	A	is developed usin	g historical cost i	nformation that relates	some software metric	to the CO5	
	proje	ct cost. a) Algorithm	iic cost modeling	b) Expert judge	ment		
7	Whic	h software project si	i by analogy d	evelop estimates of the	information domain	C05	
,	chara	cteristics?	izing approach de	velop estimates of the	information domain	005	
	a) Fu	nction point sizing	b) Change sizing	c) Standard compone	ent sizing		
	d) Fu	zzy logic sizing		· •	C		
8	How	many forms exists o	of Barry Boehm's	COCOMO Model?		CO5	
0	a) Tw	vo b) Three c) Fou	ur d) No form ex	xists		~~~	
9	COC	OMO stands for			1	CO5	
	a) $col$	nsumed cost model	D (d J (b I	constructive cost model	1		
10		is also called ris	sk estimation whi	ch attempts to rate the	nature of risks.	C05	
	a) ris	k identification b) r	risk projection c	) risk refinement d) r	isk mitigation	000	
	,		SECT	TON – B (Remember	ing)		
Ansv	wer ar	y <b>FIVE</b> Questions:				(5 X 2 = 10 Ma)	rks)
11	Give	any two types of wh	ite box testing str	rategies?		CO4	
12	Defin	e verification?				CO4	
13	Defin	e Dehugging?	<b>y</b> ?			C05	
15	List t	he types of cost estin	mation techniques	s?		C05	
16	What	is meant by cyclom	atic complexity?			CO5	
17	List t	he McCall's quality	factors?			CO5	
			SECT	ION – C (Understand	ling)		
Ansv	wer ar	ny THREE Question	is:			(3 X 6 = 18 Ma)	rks)
18	Brief	a note on orthogona	ll testing?			CO4	
19	Discu	cally analyze basis pa	ath testing.	and process based deco	mnosition	C04 C05	
20 21	Write	ass on problem based	cost estimation r	nethod	mposition	C05	
22	Write	e a note project sche	duling?	notifou.		C05	
-		1 5	SE	CTION – D (Applying	g)		
Ansv	wer ar	ny <b>ONE</b> Question:				(1X 12= 12 Ma	rks)
23	Expla	ain types of decompo	osition techniques	S		CO4	
24	Expla	ain in detail Construc	ctive cost model a	and its characteristics. &&&&&&		CO5	

		DEPARTMENT OF COMPUTER SCIENCE						
	Course Code:	10EP5A	Programme:	B.Sc. Computer Science	CIA:	III		
	Date:	19.11.2022	Part:	III	Semester:	V		
	Duration:	2 Hours	Academic Year:	2022-23	Max. Marks:	50		
HAND HEART HEAD	Study Compon	ient:	Elective					
	<b>Course Title:</b>	CLOUD CON	MPUTING					

# **SECTION – A (Remembering)**

Answer	r ALL the Questions: $(10 \times 1 = 10 \text{ M})$	larks)
1	Model attempts to categorize a cloud network based on four dimensional factors.	<b>CO4</b>
	A. Cloud Square B. Cloud Service C.Cloud Cube D. All of the mentioned	
2	Most of the cloud architectures are built on this type of architecture.	<b>CO4</b>
	A. skeleton B. grid C. linear D.template	
3	A is a facility that is a self-contained semiconductor assembly line.	CO4
	A. fab B. touch C. rep D. all of the mentioned	
4	is the most refined and restrictive service model.	CO4
	A. IaaS B. CaaS C. PaaS D. All of the mentioned	
5	Cloud model relies on	CO5
	A. communication api B. middleware C. web documents D. embedded device	
6	Amazon AWS Consists of following services	CO5
	A. iaas B. paas C. saas D. all of above	
7	Which of the following is the first level applicable attribute?	CO5
	A. Availability B. Monitoring C. Configuring D. All of the mentioned	
8	Virtualizing the client desktop can happen in ways.	CO5
	A. TwoB. ThreeC. FourD. None of the above	
9	For the model, the security boundary may be defined for the vendor to include	CO5
	the software framework and middleware layer.	
	A. SaaS B. PaaS C. IaaS D. All of the mentioned	~~~ -
10	Which of the following is related to the service provided by Cloud?	CO5
	A. Sourcing B. Ownership C. Reliability D. Aaas	
<b>A</b>	SECTION – B (Remembering) $(5 \times 2)$ 10 N	
	$r_{2}n_{V}$ HIVE LUGSHONS.	
Allswei		
Answei 11	List out the Cloud services development tools Write shout the Coogle App Engine $(3 \times 2 - 10 \times 10^{-10})$	CO4
Answei 11 12	List out the Cloud services development tools Write about the Google App Engine	CO4 CO4 CO5
11 12 13	List out the Cloud services development tools Write about the Google App Engine Define cloud governance What are security risks of cloud computing?	CO4 CO4 CO5
11 12 13 14	List out the Cloud services development tools Write about the Google App Engine Define cloud governance What are security risks of cloud computing? Define Data Security	CO4 CO4 CO5 CO5
11 12 13 14 15	List out the Cloud services development tools Write about the Google App Engine Define cloud governance What are security risks of cloud computing? Define Data Security Define Encryption	CO4 CO4 CO5 CO5 CO5 CO5
Answei 11 12 13 14 15 16	List out the Cloud services development tools Write about the Google App Engine Define cloud governance What are security risks of cloud computing? Define Data Security Define Encryption What are the security concerns in cloud computing?	CO4 CO4 CO5 CO5 CO5 CO5 CO5
11 12 13 14 15 16 17	List out the Cloud services development tools Write about the Google App Engine Define cloud governance What are security risks of cloud computing? Define Data Security Define Encryption What are the security concerns in cloud computing? SECTION – C (Understanding)	CO4 CO4 CO5 CO5 CO5 CO5 CO5 CO5
Answer 11 12 13 14 15 16 17 Answer	List out the Cloud services development tools Write about the Google App Engine Define cloud governance What are security risks of cloud computing? Define Data Security Define Encryption What are the security concerns in cloud computing? SECTION – C (Understanding) r any THREE Questions: (3 X 6= 18 N	CO4 CO4 CO5 CO5 CO5 CO5 CO5 CO5
Answer 11 12 13 14 15 16 17 Answer 18	List out the Cloud services development tools Write about the Google App Engine Define cloud governance What are security risks of cloud computing? Define Data Security Define Encryption What are the security concerns in cloud computing? SECTION – C (Understanding) r any THREE Questions: Explain about the following cloud services development tools: Amazon and IBM	CO4 CO4 CO5 CO5 CO5 CO5 CO5 CO5 CO5
Answer 11 12 13 14 15 16 17 Answer 18 19	List out the Cloud services development tools Write about the Google App Engine Define cloud governance What are security risks of cloud computing? Define Data Security Define Encryption What are the security concerns in cloud computing? SECTION – C (Understanding) r any THREE Questions: Explain about the following cloud services development tools: Amazon and IBM Write about Pros and cons of cloud service development. (3 X 2 = 10 W	CO4 CO4 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO5
Answer 11 12 13 14 15 16 17 Answer 18 19 20	List out the Cloud services development tools Write about the Google App Engine Define cloud governance What are security risks of cloud computing? Define Data Security Define Encryption What are the security concerns in cloud computing? SECTION – C (Understanding) r any THREE Questions: (3 X 6= 18 M Explain about the following cloud services development tools: Amazon and IBM Write about Pros and cons of cloud service development. Explain about security design principle	CO4 CO4 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO5
Answer 11 12 13 14 15 16 17 Answer 18 19 20 21	List out the Cloud services development tools Write about the Google App Engine Define cloud governance What are security risks of cloud computing? Define Data Security Define Encryption What are the security concerns in cloud computing? SECTION – C (Understanding) r any THREE Questions: (3 X 6= 18 N Explain about the following cloud services development tools: Amazon and IBM Write about Pros and cons of cloud service development. Explain about security design principle Explain about cloud governance	CO4 CO4 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO4 CO4 CO4 CO5 CO5
Answer 11 12 13 14 15 16 17 Answer 18 19 20 21 22	List out the Cloud services development tools Write about the Google App Engine Define cloud governance What are security risks of cloud computing? Define Data Security Define Encryption What are the security concerns in cloud computing? SECTION – C (Understanding) r any THREE Questions: (3 X 6= 18 M Explain about the following cloud services development tools: Amazon and IBM Write about Pros and cons of cloud service development. Explain about security design principle Explain about cloud governance Write about risks and security concerns of cloud.	CO4         CO4         CO5         CO5
Answer 11 12 13 14 15 16 17 Answer 18 19 20 21 22	List out the Cloud services development tools Write about the Google App Engine Define cloud governance What are security risks of cloud computing? Define Data Security Define Encryption What are the security concerns in cloud computing? SECTION – C (Understanding) r any THREE Questions: (3 X 6= 18 N Explain about the following cloud services development tools: Amazon and IBM Write about Pros and cons of cloud service development. Explain about security design principle Explain about cloud governance Write about risks and security concerns of cloud. SECTION – D (Applying)	CO4 CO4 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO4 CO4 CO4 CO5 CO5 CO5
Answer 11 12 13 14 15 16 17 Answer 18 19 20 21 22 Answer	List out the Cloud services development tools Write about the Google App Engine Define cloud governance What are security risks of cloud computing? Define Data Security Define Encryption What are the security concerns in cloud computing? SECTION – C (Understanding) r any THREE Questions: (3 X 6= 18 N Explain about the following cloud services development tools: Amazon and IBM Write about Pros and cons of cloud service development. Explain about security design principle Explain about cloud governance Write about risks and security concerns of cloud. SECTION – D (Applying) r any ONE Question: (1X 12= 12 N	CO4 CO4 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO4 CO4 CO4 CO4 CO5 CO5 CO5 CO5
Answer 11 12 13 14 15 16 17 Answer 18 19 20 21 22 Answer 23	List out the Cloud services development tools Write about the Google App Engine Define cloud governance What are security risks of cloud computing? Define Data Security Define Encryption What are the security concerns in cloud computing? SECTION – C (Understanding) r any THREE Questions: (3 X 6= 18 M Explain about the following cloud services development tools: Amazon and IBM Write about Pros and cons of cloud service development. Explain about security design principle Explain about security concerns of cloud. SECTION – D (Applying) r any ONE Question: (1X 12= 12 M Explain about the Discovering cloud services and tools	CO4 CO4 CO5 CO5 CO5 CO5 CO5 CO5 CO5 CO4 CO4 CO4 CO4 CO5 CO5 CO5 CO5 CO5 CO5

	DEPARTMENT OF COMPUTER SCIENCE							
	Course Code:	10GE11	Programme:	B.A. / B.Sc.	CIA:	III		
	Date:	17.11.2022	Part:	IV	Semester:	Ι		
	Duration:	2 Hours	Academic Year:	2022 - 23	Max.Marks:	50		
HAND HEART HEAD	Study Compor	nent:	Generic Elective	Course				
	<b>Course Title:</b>	INTRODUC	TION TO INFORM	ATION TECHN	OLOGY			

# **SECTION – A (Remembering)**

Answer	ALL the Questions:			Č,		(10 X 1 = 10 M)	[arks)
1	Website is a collection of	of.				`	COI
	A. audio files.	B. video file		C. image file.	D. html	file.	
2	Second Generation co	omputer uses.					CO1
	A. CRT	B. type	writer	C. magnetic disc		D. plastic tape	
3	Website is a collection	n of.					CO2
	A. audio files.	B. video file		C. image file.	D. htm	l file.	
4	WAN stands for						CO2
	A. wire and network	. 1	D 11	B. wire accessible netw	ork		
_	C. widely accessible r	network	D. wide	e area network.			COL
5	GPS is mean for			h -1 D't' 'n - Ct	_		003
	A. Global Pointing Sy	/stem	B. GIO	oal Positioning System	1		
6	C. Great Pointing Sys	lem	D. Gre	at Positioning System			CO2
0	A plain page	B hyperlink		C designed page		D nictures	COS
7	A source program is	written in		C. designed page		D. pictures	CO4
,	A high level langu	age		B English language			004
	C. machine languag	re.		D. symbolic language	1		
8	Computer performs ca	alculations		2.5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,			<b>CO4</b>
Ũ	A. in accurately	B. accurately.		C. 1 million decimals		D. 2 decimals.	00.
9	First generation comp	outers uses.					CO5
-	A. cathode ray tub	e. B. type	writer	C. printers.		D. paper tapes.	000
10	9) The web page mean	ns				I I I I I I	CO5
	A. plain page.	B. hyp	erlink	C. designed pa	age	D. pictures	
	1 10	SECTIC	$\mathbf{D}\mathbf{N} - \mathbf{B}$	(Remembering)	C	1	
Answer	any <b>FIVE</b> Questions:			× 0/		(5 X 2 = 10 M)	[arks)
11	Give any four advanta	ages of informa	tion tec	hnology?			<b>CO1</b>
12	What is CPU?	-					<b>CO1</b>
13	Type of memory in co	omputer.					
14	T						CO2
15	List out the any four v	web browsers?					CO2 CO3
15	Expand LAN and WL	web browsers? AN.					CO2 CO3 CO4
15 16	Expand LAN and WL Define hardware and so	web browsers? AN. oftware.					CO2 CO3 CO4 CO4
15 16 17	Expand LAN and WL Define hardware and so List out the any four s	web browsers? AN. oftware. social media.					CO2 CO3 CO4 CO4 CO5
15 16 17	List out the any four v Expand LAN and WL Define hardware and so List out the any four s	web browsers? AN. oftware. social media. <b>SECTIO</b>	$\mathbf{N} - \mathbf{C}$	(Understanding)			CO2 CO3 CO4 CO4 CO5
15 16 17 Answer	List out the any four v Expand LAN and WL Define hardware and so List out the any four s	web browsers? AN. oftware. social media. <b>SECTIO</b> ns:	•N − C (	(Understanding)		(3 X 6= 18 M	CO2 CO3 CO4 CO4 CO5
15 16 17 Answer 18	List out the any four we Expand LAN and WL Define hardware and so List out the any four s any <b>THREE</b> Question Briefly explain about co	web browsers? LAN. oftware. social media. SECTIO ns: omputer network	$\mathbf{PN} - \mathbf{C}$ with types	( <b>Understanding</b> ) bes.		( <b>3 X 6= 18</b> M	CO2 CO3 CO4 CO4 CO5 [arks] CO1
15 16 17 Answer 18 19	List out the any four v Expand LAN and WL Define hardware and so List out the any four s any <b>THREE</b> Question Briefly explain about co Explain the types of n	web browsers? AN. oftware. social media. <b>SECTIO</b> ns: omputer network ietwork topolog	$\mathbf{PN} - \mathbf{C}$ with types by the type of type of the	( <b>Understanding</b> ) bes.		(3 X 6= 18 M	CO2 CO3 CO4 CO4 CO5 [arks) CO1 CO2
15 16 17 Answer 18 19 20	List out the any four w Expand LAN and WL Define hardware and so List out the any four s any <b>THREE</b> Question Briefly explain about co Explain the types of n Briefly discuss about th	web browsers? AN. oftware. social media. <b>SECTIO</b> ns: omputer network ietwork topolog e input device an	<b>DN</b> – <b>C</b> with typ y. ad outpu	( <b>Understanding</b> ) bes. t device.		(3 X 6= 18 M	CO2 CO3 CO4 CO4 CO5 [arks) CO1 CO2 CO3
15 16 17 Answer 18 19 20 21	List out the any four v Expand LAN and WL Define hardware and so List out the any four s any <b>THREE</b> Question Briefly explain about co Explain the types of n Briefly discuss about th Explain about the comp	web browsers? AN. oftware. social media. <b>SECTIO</b> ns: omputer network network topolog e input device an outer with types.	<b>PN – C</b> with typ y. d outpu	( <b>Understanding</b> ) bes. t device.		(3 X 6= 18 M	CO2 CO3 CO4 CO4 CO5 [arks) CO1 CO2 CO3 CO4
15 16 17 Answer 18 19 20 21 22	List out the any four v Expand LAN and WL Define hardware and so List out the any four s any <b>THREE</b> Question Briefly explain about co Explain the types of n Briefly discuss about th Explain about the comp Explain the followi	web browsers? AN. oftware. social media. <b>SECTIO</b> ns: omputer network network topolog is input device and outer with types. ings	<b>DN</b> – <b>C</b> with typ y. ad outpu	( <b>Understanding</b> ) bes. t device.		(3 X 6= 18 M	CO2 CO3 CO4 CO4 CO5 [arks) CO1 CO2 CO3 CO4 CO5
15 16 17 Answer 18 19 20 21 22	List out the any four v Expand LAN and WL Define hardware and so List out the any four s any <b>THREE</b> Question Briefly explain about co Explain the types of n Briefly discuss about th Explain about the comp Explain the followi (i) website	web browsers? AN. oftware. social media. <b>SECTIO</b> ns: omputer network network topolog he input device an outer with types. ings	<b>PN – C</b> with typ y. ad outpu	( <b>Understanding</b> ) bes. t device.		(3 X 6= 18 M	CO2 CO3 CO4 CO4 CO5 [arks) CO1 CO2 CO3 CO4 CO5
15 16 17 Answer 18 19 20 21 22	List out the any four v Expand LAN and WL Define hardware and so List out the any four s any <b>THREE</b> Question Briefly explain about co Explain the types of n Briefly discuss about th Explain about the comp Explain the followi (i) website (ii) browser	web browsers? AN. oftware. social media. <b>SECTIO</b> ns: omputer network network topolog le input device an outer with types. ings	<b>PN</b> – <b>C</b> with type y. and output	( <b>Understanding</b> ) bes. t device.		(3 X 6= 18 M	CO2 CO3 CO4 CO4 CO5 [arks) CO1 CO2 CO3 CO4 CO5
15 16 17 Answer 18 19 20 21 22	List out the any four v Expand LAN and WL Define hardware and so List out the any four s any <b>THREE</b> Question Briefly explain about co Explain the types of n Briefly discuss about th Explain about the comp Explain the followi (i) website (ii) browser	web browsers? AN. oftware. social media. SECTIO ns: omputer network network topolog ie input device and outer with types. ings SECT	<b>PN – C</b> with typ y. d outpu	( <b>Understanding</b> ) bes. t device. <b>D (Applying)</b>		(3 X 6= 18 M	CO2 CO3 CO4 CO4 CO5 [arks) CO1 CO2 CO3 CO4 CO5
15 16 17 Answer 18 19 20 21 22 Answer	List out the any four v Expand LAN and WL Define hardware and so List out the any four s any <b>THREE</b> Question Briefly explain about co Explain the types of n Briefly discuss about th Explain about the comp Explain the followi (i) website (ii) browser	web browsers? AN. oftware. social media. <b>SECTIO</b> ns: omputer network network topolog le input device an outer with types. ings <b>SECT</b>	<b>PN</b> – <b>C</b> with typ y. d output	( <b>Understanding</b> ) bes. t device. <b>D (Applying</b> )		(3 X 6= 18 M (1X 12= 12 M	CO2 CO3 CO4 CO4 CO5 [arks) CO1 CO2 CO3 CO4 CO5

23 Explain the different types of operating sy24 Explain the functional unit in a computer.

**CO5** 

	DEPARTMENT OF COMPUTER SCIENCE							
Torren	Course Code:	10SB51	Programme:	B.Sc. Computer Science	CIA:	III		
	Date:	21.11.2022	Part:	IV	Semester:	V		
	Duration:	1 Hour	Academic Year:	2022 - 23	Max. Marks:	50		
	Study Compor	nent:	Skill Based					
	<b>Course Title:</b>	COMPETITI	VE EXAMINATIO	N FOR IT				

#### SECTION – A

Answer **ALL** the Questions:

1Find odd man outa) oracleb) basicc) pascald) cobolCO5

(50 X 1 = 50 Marks)

**CO5** 

- 2 Which of the following Computer language is written in binary Codes only? CO5 a) pascal b) machine language c) C d) C#
- **3** Which symbol will be on the face opposite to the face with symbol * ?

a) (a) b) (b) c) 8 d) +

4 Two positions of dice are shown below. How many points will appear on the opposite to **CO5** the face CO5ntaining 5 points?



12	Indus River is the longest river in India.	CO5
	a) The b) An c)A d) None of the above	
13	. Peter went to United States to spend holidays.	CO5
	a) the b) a c) either A or B d)no article	
14	The car travelled 150 kilometers hour.	CO5
	a)the b)an c)a d)no article	
15	I saw a of Cows in the field.	CO5
	A) group B) herd C) swarm D) flock	
16	The Earth moves round the Sun.	CO5
	A. simple past B. past perfect C. simple present D. past future perfect	
17	Rain falls from the cloud.	CO5
	A. past CO5ntinuous B. future CO5ntinuous C. simple present D. present	
	CO5ntinuous	
18	The train had left.	CO5
	A. past perfect B. past CO5ntinuous C. past future D. simple present	
19	It will rain soon.	CO5
	A. simple past B. simple present C. past future D. simple future	
20	Suganya is typing.	CO5
	A. simple past B. simple present C. present Continuous D. past perfect	
21	I shall visit the book fair tomorrow.	CO5
	A. simple past B. simple present C. simple future D. future Continuous	
22	It is very hot today?	CO5
	A. isn't it? B. wasn't? C. was it? D. is it?	
23	Suganya will not come today?	CO5
	A. shall she? B. will she? C. won't she? D. none of these	
24	Indian team has beaten the Australian team.	CO5
	A. does it? B. hasn't it? C. has it? D. is it?	
25	None of the food was wasted.	CO5
	A. wasn't it? B. isn't it? C. was it? D. is it?	
26	Let us play.	CO5
	A. can we? B. do we? C. shall we? D. shalln?t we?	

27 Alfred buys an old sCO5oter for Rs. 4700 and spends Rs. 800 on its repairs. If he sells the sCO5oter for CO5 Rs. 5800, his gain percent is:

A. 
$$4\frac{4}{7}\%$$

B. 
$$5\frac{5}{11}\%$$

- C. 10%
- D. 12%

The CO5st price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the	CO5
value of x is: a) 15 b)16 c)18 d)25	
If an article sold for Rs 100 then there is a gain of Rs 20, which of the following is the gain percent?	<b>CO5</b>
a. 25% b. 22% c. 20% d. 16. %	
Incest: disease::war:?	CO5
a)Army b)defeat c)destruction d)none	
Book:Cover::painting: ?	CO5
a) page b) wall c) Color d) painting	
	The CO5st price of 20 articles is the same as the selling price of <i>x</i> articles. If the profit is 25%, then the value of <i>x</i> is: a) 15 b)16 c)18 d)25 If an article sold for Rs 100 then there is a gain of Rs 20, which of the following is the gain percent? a. 25% b. 22% c. 20% d. 16 . % Incest: disease::war:? a)Army b)defeat c)destruction d)none Book:Cover::painting: ? a) page b) wall c) Color d) painting

32	Water:dam::Trade":?	CO5
22	a) money b) commerce c)economy d) trade policy	005
33	12 is related to 36 in same way 1/ is a) $34$ b) $51$ c) $21$ d) $71$	005
34	Travels related to journey in the same way sailor related to	CO5
-	a) crew b)ship c)water d) voyage	
35	TALE:LATE::CAFÉ:?	CO5
	a) FACE b) CEFA c)FAEC d)EFAC	
36	Odometer is related to speed Compass is	CO5
~-	a) direction b) drawing c) picture d) moon	
37	Arrange in ascending order the units of memory TB, KB, GB, MB	CO5
38	A.1B>MB>GB>KB B.MB>GB>1B>KB C.1B>GB>MB>KB D.GB>MB>KB>1B Fight Bits make up a	CO5
30	A byte B megabyte C kilobyte D None	005
39	Which one of these is also known as read/write memory?	CO5
	A.ROM B.RAM C.DVD D.Hard Disk	
40	The printed output from a CO5mputer is called	CO5
	A.CO5py B.Soft CO5py C.Hard copy D.Paper	
41	Which device is required for the Internet connection?	CO5
	(A) Joystick B) Modem C) CD Drive d) NIC Card	
42	Which of the following of the TCP/IP protocols is used for transferring files from one	CO5
	machine to another?	
13	A) FIP B) SMIP C) SNMP D) RPE Which one of these stores more data than a DVD?	CO5
43	A CD Rom B Floppy C Blue Ray Disk D Red Ray Disk	005
44	Suppose X and Y are two numbers such that, $X + Y = 36$ and $X * Y = 248$ . Find the sum	CO5
	of $1/x + 1/y$	
	a)9/62 b)65/248 c)248/36 d) 212	
45	Five CO5nsecutive numbers add up to 335. What will be the sum of largest and smallest	CO5
	number?	
16	a. 134 b. 150 c. 174 d. 226	005
46	A farm rears geese and dogs. The head count in the farm is 84 and the leg CO5unt is 282.	C05
	a 27 b 30 c 54 d 57	
47	Find average of natural numbers from 1 to 67?	CO5
• •	a. 33.5 b. 34 c. 50 d. 67	000
<b>48</b>	Which OOPS concept means exposing only necessary information to the calling	CO5
	functions?	
	a. Polymorphism b. Encapsualtion c. Inheritence d. Abstraction	
49	Which oops concept is used as reuse mechanism?	CO5
	a. Abstraction b. Dynamic binding c. Inheritance d. Encapsulation	<b>.</b>
50	Which constructor has no parameters?	CO5
	a. Null constructor b. Parametric constructor c. copy constructor	

	DEPARTMENT OF COMPUTER SCIENCE					
	Course Code:	10SE31	Programme:	B.Sc. Computer Science	CIA:	III
	Date:	21.11.2022	Part:	IV	Semester:	III
	Duration:	1 Hour	Academic Year:	2022 - 23	Max. Marks:	25
	Study Component:		Skill Enhancement Course			
	<b>Course Title:</b>	tle: OPERATING SYSTEMS				

# SECTION – A

Answei	ALL the Questions:	(5 X 1 = 5 Marks)
1	Which of the following condition is required for a deadlock to be possible?	CO4
	a) mutual exclusion	
	b) a process may hold allocated resources while awaiting assignment of other re-	esources
	c) no resource can be forcibly removed from a process holding it	
	d) all of the mentioned	
2	Which one of the following is the deadlock avoidance algorithm?	CO4
	a) banker's algorithm	
	b) round-robin algorithm	
	c) elevator algorithm	
	d) karn's algorithm	
3	To avoid deadlock	CO4
	a) there must be a fixed number of resources to allocate	
	b) resource allocation must be done only once	
	c) all deadlocked processes must be aborted	
	d) inversion technique can be used	
4	For non-sharable resources like a printer, mutual exclusion	CO4
	a) must exist	
	b) must not exist	
	c) may exist	
	d) none of the mentioned	
5	What is an operating system?	CO4
	a) interface between the hardware and application programs	
	b) collection of programs that manages hardware resources	
	c) system service provider to the application programs	
	d) all of the mentioned	
	SECTION – B	
Answei	any <b>TWO</b> Questions:	(2 X 2 = 4 Marks)
6	Define deadlock	CO4
7	Define mutual exclusion	CO4
8	List out reasons of occur deadlock	CO4
9	Define process	CO4
	SECTION – C	
Answei	any <b>ONE</b> Question:	(1 X 6= 6 Marks)
10	Explain the process view point	CO4
11	Explain the reasons can occur deadlock	CO4
	SECTION – D	
Answer	any <b>ONE</b> Question:	(1 X 10= 10 Marks)
12	Explain about avoid and recovery of deadlock	CO4
13	Explain the procedure to prevent deadlock	CO4

~	Course Code:	ESUG51	Programme:	B.A/B.Sc./B.Com. /B.Com CA	CIA:	III	
	Date:	17.11.2022	Part:	V	Semester:	V	
	Duration:	2 Hours	Academic Year:	2022-23	Max. Marks:	50	
HANDHEARTHE	Study Compo	nent:	EVS		<b>A</b> anaanaanaanaanaanaanaanaanaanaanaanaana		
	Course Title: ENVIRONMENTAL STUDIES						
		SEC	TION - A (Rememb	ering)			
Answ	ver ALL the Questions	5 <b>1</b> 0		(	(10 X 1 = 10 Mar	·ks)	
1	June 5 is celebrated as:						
	a. World environment d	lay	b. World water d	lay			
2	c. World forest day	1 . 1	d. World ocean o	lay			
2	During photosynthesis p	plants are produce	d 0	1 77 1 1			
2	a. Nitrogen	b. Methane	c. Oxygen	d. Hydro carbons			
3	The organisms, which for	eed on dead organ	isms, wastes of living of	rganisms are called			
1	a. Chemotrophes The over nourished lake	D. Carnivores	c. Detritivores	d. Decomposers			
4	a Eutrophic	h Oligotrophic	a Dystrophic	d Meromictic			
5	a. Europine Western Ghats are rich?	in endemic species	c. Dysuopine	u. Meronnene			
5	a Birds	h Lions	c Amphibians	d Turtles			
6	a. Dilus Dad Data Daalt aivi	U. LIOIIS	c. Ampinoians	of plants and animals	is mublished		
0	keu Dala Dook giv	ing the list of	endangered species	or plants and animals	is published		
	9 IUCN	h BNHS	o <b>7</b> \$I	d SACON			
7	Oil in water affects fig	sh by affecting	C. Z.51	u. SACON			
,	a. Gills	b. Scales	c. Eves	d. None of these			
8	Bhopal gas tragedy or	courred due to lea	akage of	d. I tone of these			
0	a. MIC	b. DDT	c. SO ₂	d. Dioxins			
9	Which of the followin	ng gases has max	imum contribution to	enhanced greenhouse eff	fect?		
	a. CFC's	b. CH ₄	c. $CO_2$	d. $N_2O$			
10	The 3-R approach of 1	resources use sta	nds for Reduce, Reuse	e and			
	a. Repair	b. Recycle	c. Recover	d. Recommend			
		SEC	TION – B (Remember	ering)			
Answ	er any <b>FIVE</b> Question	ns:			(5 X 2 = 10 Mar)	·ks)	
11	Define the term "Envi	ironment"					
12	Bring out the abiotic co	mponents of ecosy	vstem.				
13	What are herbivores?						
14	Define the term "Biodiv	versity"					
15	What are pollutants? Cr	te examples.	0				
16	What do you meant by j	population explosi	on?				
17	Expand: HIV.	an a		1• \			
<b>A</b>		SEC	110N – C (Understal	naing)	() V ( 10 M	.1)	
Answer any <b>THREE</b> Questions: (3					$(3 \land 0 = 18 \text{ Mar})$	KS)	
10	Define and explain the t	term food web	euucation.				
19 20	<ul> <li>Define and explain the term food web.</li> <li>Write a brief account on biodiversity botspots of India.</li> </ul>						
20	<ul> <li>write a other account on biodiversity notspots of india.</li> <li>Discuss briefly the adverse effects and control of water pollution</li> </ul>						
2.2	27 Give a short note on AIDS and its transmission						
	$\mathbf{SECTION} = \mathbf{D} (\mathbf{Annlving})$						
Answer any <b>ONE</b> Ouestion: (1X 12= 12 Marks)							
23 Write an essay on renewable and non-renewable resources					)		
24	24 Discuss your own contribution and perspectives to save the environment.						