Test Booklet No This booklet consists of 100 questions and 16 printed pages.		
RGUCET/2024//_	Series	NIL

## **RGUCET 2024**

## Common Entrance Test, 2024 MASTER OF COMPUTER APPLICATION (COMPUTER APPLICATION)

Full Marks: 100						Time: 2 Hours		
Roll No.							1	
Day and Day	ate of	Exan	ninatio	n: _			<b>」</b> —	
Signature of	of Inv	igilato	or(s) _					
Signature of	of Car	ndidat	e					
General In	struci	tions:						

## General Instructions.

## PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.

- 1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.
- 2. Candidate must write his/her Roll Number on the space provided.
- 3. This Test Booklet contains 100 Multiple Choice Questions (MCQs) from the concerned subject. Each question carries 1 mark. There shall be negative marking of 0.25 against each wrong attempt.
- 4. Please check the Test Booklet to verify that the total pages and total number of questions contained in the test booklet are the same as those printed on the top of the first page. Also check whether the questions are in sequential order or not.
- 5. Candidates are not permitted to enter into the examination hall after the commencement of the entrance test or leave the examination hall within one hour thirty minutes.
- 6. Making any identification mark in the OMR Answer Sheet or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.
- 7. Candidates shall maintain silence inside and outside the examination hall. If candidates are found violating the instructions mentioned herein or announced in the examination hall, they will be summarily disqualified from the entrance test.
- 8. In case of any dispute, the decision of the Entrance Test Committee shall be final and binding.
- 9. The OMR Answer Sheet consists of two copies, the Original copy and the Student's copy.

1	Who is the javelin	Answer option (a)			
	a)Neeraj	b)Rjyavardhan	c)Sakura	d)Abhinav	Neeraj Chopra
2	Chopra	Singh Rathore	Yosozumi	Bindra	A
2	A Bison	onal Parks with their re	i Uttarakhand		Answer option (b)
					(0)
	B Raimona		ii Tripura		
	C Jim Corb		iii Arunachal Prade	esh	
	D Eagle Ne		iv Assam		
	a)A-iii, B-iv, C-i, D-ii		D-iv	d)A-ii, B-iv, C-iii, D-i	A-ii, B-iv, C-i, D- iii
3	Following st	tatements are either Tr	rue or False:		Answer option
	A. India	shares a border with	China		(d)
		al is a landlocked co		a horder with	
	India.	ii is a landioeked eo	unity that shares	a border with	
		anka shares a land bo	rder with India.		
		shares a border with			
			·		
	Choose the	correct answers from	options given below	v:	
	a) A & B	b) A & D only	c) A, C & D only	1 . ·	A, B & D only
	only	0 1.:	1 11'	only	
4	The full form	n of multi-party politi	cal alliance named	"INDIA" is	Answer option
	a) Indian	b) Indian National	c) Indian	d) Indian	(c) Indian National
	a) Indian National	Democratic	c) Indian National	National	Developmental
	Democrati	Independent	Developmental	Developmen	Inclusive Alliance
	c Inclusive	Alliance	Inclusive	tal	metasive Amanee
	Alliance	7 manee	Alliance	Independent	
				Alliance	
5	Golden Lot	us and Silver Lotus	are official name	s of National	Answer option
	awa:	rds			(b) 1
	a) Sports	b) Film	c) Bravery	d) Civil	Film
6	Following st	tatements are either Tr	rue or False:		Answer option
					(c)
		on of two sets A and		3, contains all	
		s that are in A or B or		D	
		rsection of two sets A		B, contains all	
		s that are in A but not		sat	
	-	ty set, denoted by Ø, aplement of a set A in			
		, contains all the elem		denoted by A	
		correct answers from		v:	
	a) A, B &	b) B & D only	c) A & C only	d) A, C & D	A & C only
	Conly			only	
7	Assertion (A sides is $(n-2)$ )	A): The sum of the into $2) \times 180^{\circ}$	terior angles of a p	olygon with n	Answer option (a)
	•				
		(B): A polygon can b		-	
	the sum of the				

	\ <b>D</b> 1 .	1) 5 1 1 15		1 0 1	
	a) Both A	b) Both A and B are		· ·	Both A and B are
	and B are	true, but B is not	B is false.	but B is true.	true, and B is the
	true, and B	the correct			correct
	is the	explanation of A.			explanation of A.
	correct	explanation of 11.			
	explanatio				
	n of A.				
8	A sum of 83	rupees is divided amo	ong A, B and C in s	uch a way that	Answer option
	A gets Rs. 7	more than what B get	s and B gets Rs. 8 n	nore than what	(c)
		atio of their shares (A			
		b) 37:17:09	c) 35 : 28 : 20	d) None of	35:28:20
	22	-) -, -, -, -, -, -, -, -, -, -, -, -, -,		these	
9		hich occurs most free	uantly in a set of c		Answer option
)		men occurs most nec	fucility in a set of c	JUSCI VALIDIIS 18	
	called:	1 > 3 6 - 12	\	1) ) ]	(a)
	a) Mode	b) Median	c) Mean	d) None of	Mode
				these	
1	If South-Eas	t becomes North and	South becomes Nor	th-East and all	Answer option
0	the rest direc	ctions are changed in	the same manner, t	hen match the	(d)
	following pa	_	,		
	A West bed		i West		
	B North-Ea	ast becomes	ii South-West		
	C North be	comes	iii East		
	D South-W	est becomes	iv South-East		
	a) d) A-ii,	b) d) A-iv, B-iii, C-	c) d) A-ii, B-iii,	d) A-iv, B-i,	A-iv, B-i, C-ii, D-
	B-i, C-iv,	ii, D-i	C-iv, D-i	C-ii, D-iii	iii
	D-iii	11, 12-1	C-1V, D-1	C-11, D-111	
1					A
1	-	question mark with	an option that foli	ows the same	Answer option
1	logic applied	l in first pair.			(b)
	3:11::5:?	•			
	a) 51	b) 27	c) 66	d) 21	27
		,		,	
1	Identify the	odd one out from the	group:	1	Answer option
2	1. Pyth		510 <b>4</b> F.		(c)
_	-				(6)
	3. HTM	IL			
	4. C++		1 >		
	a)Python	b)Java	c)HTML	d)C++	HTML
1	Assertion(A	): ChatGPT is capab	le of generating hu	ıman-like text	Answer option
3	responses.	_	_		(a)
	<u>-</u>				` ′
	Justification	(B): ChatGPT is base	d on a transformer r	neural network	
		ed on a large corpus of			
				d) A in false	Both A and B are
	a)Both A	b)Both A and B are	'	d)A is false,	
	and B are	true, but B is not	is false.	but B is true.	true, and B is the
	true, and B	the correct			correct
	is the	explanation of A.			explanation of A.
	correct	-			- 
1 '			Î.	I	i
	explanatio n of A.				

1	Which of the	d				
4						
	A. A rationa					
		of the digits of a m	iultiple of 9 is a	lways a multıp	le of	
	9.	. 1 . 6	1 1 6	1		
		orial of a negative n				
		number can never b			D A and D	
1	a) A and C		c) B only	$\frac{d}{d}$ A and		
1 5		pattern is considere				
3	1-30, 9-+1 be?	$= 82, \ldots, $ ther	i tile value of x	II X-+1 − 197 V	VIII	
	a) 14	b) 12	c) 13	d) 1	5 14	
1	,	e first person associa				
6		Bharat Ratna?	aicu wiiii ciassic	al illusic to oc	d	
U	a) Bis	b) Bhimsen	c) C. Ja	kir d) N	M.S. M.S.	
	millah	Joshi	Hussain	Subbula		
	Khan	J OSHI	Trassam	mi	Kon Suooutukomm	
1	Match the fo	ollowing:				
7	1,1,00011 0110 10					
-	A. Ash	noka	i. Mugha	Dynasty		
	B. Akl		ii. Leader		lian	
	D. AK	Jai	Independence		C	
	C. Cha	ndragupta	•	Dynasty		
	Maurya	maragapta	iii. iviaarye	Бупазту		
	•	hatma Gandhi	iv. Founde	r of the Mau	irva	
	2.		Empire	1 01 0110 17140		
			Linpiic			
	a) A-i, B-ii,	b) A-ii, B-iv, C-		, C- d) A-i, 1	B-iv, A-iii, B-i, C-iv, D	_
	a) A-i, B-ii, C-ii, D-iv	b) A-ii, B-iv, C-i		, C- d) A-i, l C-iii, D-		-
1	C-ii, D-iv		i, c) A-iii, B-i iv, D-ii	C-iii, D-	ii ii of	<b>-</b>
1 8	C-ii, D-iv In which yea India?	D-iii ar, Arunachal Prades	i, c) A-iii, B-i iv, D-ii sh became a full	C-iii, D- -fledged state o	ii ii of c	<b>-</b>
	C-ii, D-iv In which yea India? a) 198	D-iii	i, c) A-iii, B-i iv, D-ii	C-iii, D- -fledged state o	ii ii of c 988	<b>-</b>
	C-ii, D-iv In which yea India?	D-iii ar, Arunachal Prades	i, c) A-iii, B-i iv, D-ii sh became a full	C-iii, D- -fledged state o	ii ii of c	<u>-</u>
8	C-ii, D-iv In which yea India? a) 198 5	D-iii ar, Arunachal Prades b) 1986	i, c) A-iii, B-i iv, D-ii sh became a full	C-iii, D- -fledged state o	ii ii of c 988	-
1	C-ii, D-iv In which yea India? a) 198 5	D-iii ar, Arunachal Prades	i, c) A-iii, B-i iv, D-ii sh became a full	C-iii, D- -fledged state o	ii ii of c 988	<u>-</u>
8	C-ii, D-iv In which yea India?  a) 198 5 Choose the control	D-iii ar, Arunachal Prades b) 1986 correct statements:	c) A-iii, B-i iv, D-ii sh became a full c) 1987	C-iii, D-fledged state o	ii ii of c 988	- -
1	C-ii, D-iv In which year India?  a) 198 5 Choose the coordinate of	D-iii ar, Arunachal Prades b) 1986 correct statements: Amazon River is the	c) A-iii, B-i iv, D-ii sh became a full c) 1987	C-iii, D-fledged state of d) 1	ii ii of c	_
1	C-ii, D-iv In which year India?  a) 198 5 Choose the company of the A. B. Australian	D-iii ar, Arunachal Prades b) 1986 correct statements: Amazon River is the ralia is both a count	c) A-iii, B-i iv, D-ii sh became a full c) 1987 c longest river in ry and a contine	C-iii, D-fledged state of d) 1  the world. nt.	ii ii of c 988	
1	C-ii, D-iv In which year India?  a) 198 5  Choose the co A. The A B. Aust C. Gree	D-iii ar, Arunachal Prades b) 1986 correct statements: Amazon River is the ralia is both a count rolland is the smalles	c) A-iii, B-i iv, D-ii sh became a full c) 1987 c longest river in ry and a contine t island in the w	C-iii, D-fledged state of d) 1  the world. nt. orld.	ii ii of c	_
1	C-ii, D-iv In which year India?  a) 198 5  Choose the company A. The A B. Aust C. Gree D. Anta	D-iii ar, Arunachal Prades b) 1986 correct statements: Amazon River is the ralia is both a count	c) A-iii, B-i iv, D-ii sh became a full c) 1987 c longest river in ry and a contine t island in the w	C-iii, D-fledged state of d) 1  the world. nt. orld.	ii ii of c	
1	C-ii, D-iv In which year India?  a) 198 5  Choose the component of the com	D-iii ar, Arunachal Prades b) 1986 correct statements: Amazon River is the ralia is both a count nland is the smalles retica is the only of	c) A-iii, B-i iv, D-ii sh became a full c) 1987 c longest river in ry and a contine t island in the we	C-iii, D-fledged state of the world.  orld.  ut a native hu	ii ii of c  988  1987  and	
1	C-ii, D-iv In which year India?  a) 198 5  Choose the company A. The A B. Aust C. Gree D. Anta	D-iii ar, Arunachal Prades b) 1986 correct statements: Amazon River is the ralia is both a count rolland is the smalles	c) A-iii, B-i iv, D-ii sh became a full c) 1987 c longest river in ry and a contine t island in the w	C-iii, D-fledged state of d) 1  the world. nt. orld.	ii ii of c	
1 9	C-ii, D-iv In which year India?  a) 198 5  Choose the company of t	D-iii ar, Arunachal Prades b) 1986 correct statements: Amazon River is the ralia is both a count nland is the smalles retica is the only of b) D only	c) A-iii, B-i iv, D-ii sh became a full c) 1987 c longest river ir ry and a contine t island in the w continent witho	C-iii, D-fledged state of d) 1  the world. nt. orld. ut a native hu d) A, B D.	ii ii of c  988  1987  and	
1	C-ii, D-iv In which year India?  a) 198 5  Choose the component of the com	D-iii ar, Arunachal Prades b) 1986 correct statements: Amazon River is the ralia is both a count nland is the smalles retica is the only of b) D only e following country	c) A-iii, B-i iv, D-ii sh became a full c) 1987 c longest river ir ry and a contine t island in the w continent witho	C-iii, D-fledged state of d) 1  the world. nt. orld. ut a native hu d) A, B D.	ii ii of c  988  1987  a aman  and  B and D	
1 9	C-ii, D-iv In which year India?  a) 198 5  Choose the company of t	D-iii ar, Arunachal Prades b) 1986 correct statements: Amazon River is the ralia is both a count nland is the smalles retica is the only of b) D only e following country	c) A-iii, B-i iv, D-ii sh became a full c) 1987 c longest river ir ry and a contine t island in the w continent witho	C-iii, D-fledged state of d) 1  the world. nt. orld. ut a native hu d) A, B D.	ii ii of c  988  1987  and	
1 9	C-ii, D-iv In which year India?  a) 198 5  Choose the component of the com	D-iii ar, Arunachal Prades b) 1986 correct statements: Amazon River is the ralia is both a count nland is the smalles retica is the only of b) D only e following country	c) A-iii, B-i iv, D-ii sh became a full c) 1987 c longest river ir ry and a contine t island in the w continent witho	C-iii, D-fledged state of d) 1  the world. nt. orld. ut a native hu d) A, B D. Vorld Cup	ii ii of c  988  1987  a a aman  and  B and D  c	
1 9	C-ii, D-iv In which year India?  a) 198 5  Choose the composition A. The A B. Austr C. Gree D. Anta population. a) B and D  Which of the maximum time	D-iii ar, Arunachal Prades b) 1986 correct statements: Amazon River is the ralia is both a count nland is the smalles retica is the only of b) D only e following country mes?	c) A-iii, B-i iv, D-ii sh became a full c) 1987 c longest river ir ry and a contine t island in the w continent witho c) A and C won Football W	C-iii, D-fledged state of d) 1  the world. nt. orld. ut a native hu d) A, B D. Vorld Cup	a aman and B and D	
1 9	C-ii, D-iv In which year India?  a) 198 5  Choose the composition A. The A B. Austr C. Gree D. Anta population. a) B and D  Which of the maximum time a) Ar	D-iii ar, Arunachal Prades b) 1986 correct statements: Amazon River is the ralia is both a count nland is the smalles retica is the only of b) D only e following country mes?	c) A-iii, B-i iv, D-ii sh became a full c) 1987 c longest river ir ry and a contine t island in the w continent witho c) A and C won Football W	C-iii, D-fledged state of d) 1  the world. nt. orld. ut a native hu d) A, B D. Vorld Cup	ii ii of c  988  1987  a a aman  and  B and D  c	
1 9	C-ii, D-iv In which year India?  a) 198 5  Choose the control B. Austr. C. Gree D. Antar population. a) B and D  Which of the maximum time  a) Ar gentina	D-iii ar, Arunachal Prades b) 1986 correct statements: Amazon River is the ralia is both a count nland is the smalles retica is the only of b) D only e following country mes?	c) A-iii, B-i iv, D-ii sh became a full c) 1987  e longest river ir ry and a contine t island in the w continent witho  c) A and C  won Football W	C-iii, D-fledged state of d) 1  the world. nt. orld. ut a native hu d) A, B D. Vorld Cup	ii ii of c  988  1987  a a aman  and  B and D  c	
1 9 2 0	C-ii, D-iv In which year India?  a) 198 5  Choose the composition A. The AB. Austration C. Gree D. Antar population. a) B and D  Which of the maximum time  a) Ar gentina  How many be	D-iii ar, Arunachal Prades b) 1986  correct statements: Amazon River is the ralia is both a count nland is the smalles retica is the only of b) D only e following country mes? b) Germany	c) A-iii, B-i iv, D-ii sh became a full c) 1987  e longest river ir ry and a contine t island in the w continent witho  c) A and C  won Football W  c) Brazz	C-iii, D-fledged state of   d	ii ii of c  988  1987  a  a  and B and D  c  taly Brazil	
2 0	C-ii, D-iv In which year India?  a) 198 5  Choose the composition A. The Argentina  Which of the maximum time  a) Argentina	D-iii ar, Arunachal Prades b) 1986 correct statements: Amazon River is the ralia is both a count nland is the smalles retica is the only of b) D only e following country mes? b) Germany	c) A-iii, B-i iv, D-ii sh became a full c) 1987  e longest river ir ry and a contine t island in the w continent witho  c) A and C  won Football W	C-iii, D-fledged state of d) 1  the world. nt. orld. ut a native hu d) A, B D. Vorld Cup	ii ii of c  988  1987  a  aman  and B and D  c  taly Brazil  Answer option	

2 2	Match the fo	llowing:			Answer option
	A. byte	2	i. small network		(a)
		Processor ii. Pixel			
	C. LAI		iii. Hz		
		all Visual Element	iv. 8 bit		
	a)	b)	(c)	d)	Aiv
	Aiv	A—i	Aii	A—iii	B—iii
	B—iii	Biii	Ві	Biv	C—i
	Ci	Civ	Civ	Cii	D—ii
		D—ii	Diii	Di	A
2 3	•	correct option for the	_	ITS	Answer option (b)
		ard is an output device			
		crophone is used as a osoft Office is an App	-		
		ocess is a part of hard			
	a) A	b) B and C are	c) All four	d) All	B and C are true
	is true and	true but A and D are		the four	but A and D are
	the	false.	false	statements	false.
	remaining statements			are True.	
	are False.				
2		e following two sta	tements and choos	se the correct	Answer option
4	options:	-			(a)
		n: Every general-pu ystem installed on it.	irpose computer r	nust have an	
	B: Justificati	ion: Man and Compu	ter cannot communi	icate directly.	
	a) Bot	b) Both	c) Stateme	d) State	Both statements A
	h	statements A and B	nt A is true but B	ment A is	and B are true and
	statements	are true but B is not	is False	false but	B is the correct
	A and B	a correct		statement B	justification of statement A
	are true and B is	justification A		is true	Statement A
	the correct				
	justificatio				
	n of				
	statement				
2	A In the center	ext of digital gamester	r which of the fell.	awing nains of	Anavyan antian
2 5		xt of digital computer rred to as binary?	i, which of the follo	owing pairs of	Answer option (d)
5	a) 1 and 2	b) 3 and 4	c) 4 and 8	d) 0 and 1	0 and 1
2		of the computer is			Answer option
6	computer?	•			(d)
	a) Memory	b) Input Unit	c) Output Unit	d) CPU	CPU
2	PDF stand for		. / <b>.</b>	1 /	Answer option
7					(a)

1 1	a) Portable	b) Printable	c) Printable	d) Portable	Portable
	Document	Document File	Document	Document	Document Format
	Format	Document The	Format	File	Document 1 ormat
2		e following is not a p			Answer option
8	.,	r reme wing is nev a p	mi or company mar		(d)
	a) Hard	b) Monitor	c) Mouse	d)MS	MS Windows
	Disk		,	Windows	
2	In computer	Answer option			
9					(c)
	a.	b. Rapid Access	c. Random	d. Regular	Random Access
	Repeated	Memory	Access Memory	Access	Memory
	Access		ļ.	Memory	
	Memory				
3		e following two sta	tements and choos	se the correct	Answer option
0	option.				(b)
	A A	HTTD ' 1'	T	1 4 14	
		n: HTTP is an applic	ation Layer networ	rk protocol to	
	transmit nyp	permedia documents.			
	B. HTTD is c	designed for commun	ication between web	hroweers and	
	web servers.	_	ication between wet	olowsels and	
	a) Sta	b) Both	c) Both	d) Both	Both statements A
	tement A is	statements A and B	/	statements A	and B are true and
	true but the	are true and B is		and B are	B is correct
	statement	correct justification		False.	justification of A
	B is false	of A	justification of A		
3	Which of the	e following statement	s is/are True		Answer option
1					(d)
	_	earch is a browser			
	•	a programming Lang	guage		
		Malicious Program			
	D. Linux is	Word Processing Soft	ware		
	a) A	a) B, C and D	a) D and D	T	
	a) A,	ia) <b>B</b> Cand D		4) D and C	D and C
1	R and D	a) B, e and B	c) B and D	d) B and C	B and C
3	B and D  Match the fo		c) B and D	d) B and C	
3 2	B and D Match the fo		c) B and D	d) B and C	Answer option
		bllowing:	i. Input Unit	d) B and C	
	Match the fo	ollowing:	i. Input Unit		Answer option
	A. CPU B. Mor	ollowing:  U  nitor	i. Input Unit ii. Operating System	m	Answer option
	A. CPU B. Mod C. Mod	ollowing: U nitor use	i. Input Unit ii. Operating Syster iii. Computer Brain	m	Answer option
	A. CPU B. Mod C. Mod D. Uni	ollowing: U nitor use x	i. Input Unit ii. Operating Systemiii. Computer Brain iv. Output Unit	m n	Answer option (b)
	A. CPU B. Mor C. Mor D. Uni a)	ollowing:  U nitor use x b)	i. Input Unit ii. Operating Syster iii. Computer Brain iv. Output Unit c)	m n	Answer option (b)  A—iii
	A. CPU B. Mod C. Mod D. Uni a) A—iii	bllowing: U nitor use x b) Aiii	i. Input Unit ii. Operating System iii. Computer Brain iv. Output Unit c) A—i	m n d) Aiv	Answer option (b)  Aiii Biv
	A. CPU B. Mod C. Mod D. Uni a) Aiii Bi	bllowing: U nitor use x b) Aiii Biv	i. Input Unit ii. Operating System iii. Computer Brain iv. Output Unit  c) A—i B—ii	d) Aiv Biii	Answer option (b)  A—iii B—iv C—i
	A. CPU B. Mod C. Mod D. Uni a) A—iii	bllowing: U nitor use x b) Aiii	i. Input Unit ii. Operating System iii. Computer Brain iv. Output Unit c) A—i	m n d) Aiv	Answer option (b)  Aiii Biv
	A. CPU B. Mor C. Mor D. Uni a) Aiii Bi Civ	b) Aiv Ci	i. Input Unit  ii. Operating Syster  iii. Computer Brain  iv. Output Unit  c)  A—i  B—ii  C—iii	d) Aiv Bii Cii	Answer option (b)  A—iii B—iv C—i
	A. CPU B. Mor C. Mor D. Uni a) Aiii Bi Civ	bllowing:  U nitor use x b) Aiii Biv Ci Dii	i. Input Unit  ii. Operating Syster  iii. Computer Brain  iv. Output Unit  c)  A—i  B—ii  C—iii	d) Aiv Bii Cii	Answer option (b)  A—iii B—iv C—i
2	A. CPU B. Mod C. Mod D. Uni a) Aiii Bi Civ Dii	bllowing:  U nitor use x b) Aiii Biv Ci Dii	i. Input Unit  ii. Operating Syster  iii. Computer Brain  iv. Output Unit  c)  A—i  B—ii  C—iii	d) Aiv Bii Cii	Answer option (b)  A—iii B—iv C—i D—ii  Answer option (a)
3	A. CPU B. Mod C. Mod D. Uni a) Aiii Bi Civ Dii	bllowing:  U nitor use x b) Aiii Biv Ci Dii	i. Input Unit ii. Operating System iii. Computer Brain iv. Output Unit  c) Ai Bii Ciii Div	d) Aiv Bii Cii	Answer option (b)  A—iii B—iv C—i D—ii

3		e follov	wing two stat	tements and choos	se the correct	-
4	option.	(c)				
	A: Assertion					
	A. Assertion	. III LIII	ux, you can ci	cate user accounts.		
	B: You can h	nave onl	y one user acc	count on a Linux co	mputer.	
	a) Bot	b)	Statement A	c) Stateme	d) Both	Statement A is
	h	is	False but	nt A is true but	statements A	true but Statement
	statements	Statem	nent B is true.	Statement B is	and B are	B is false
	A and B			false	False.	
	are true					
	and B is					
	the proper					
	justificatio					
2	n of A	<b>4</b>	-f1 ·	)		A
3 5	FTP is a	tran	sfer protocol	(		Answer option (b)
	a)hypertex	b)file		c)remote	d)signaling	file
	t					
3	Microsoft W	indows	is a			Answer option
6	\ <b>**</b> ** 1	1 \			100	(d)
	a) Word	,	Database	/ 1	, , ,	Operating System
	Processing	Progra	ım	Program	System	
2	Program	11				A
3 7	Match the fo	onowing	<b>;</b> :			Answer option
'	A MS Word	<u></u>		i Security		(c)
	B RAM			ii Document		
	C Browser			iii Internet		
	D Antivirus	<u> </u>		iv Memory		
	a) A—iii	b) A—		c) A—ii	d) A—i	A—ii
	B— i	В—		B—iv	B—iv	B—iv
	C—ii	C—		C—iii	C—iii	C—iii
	D— iv	D–	– iv	D— i	D— ii	D— i
3	Which of the	e follow	ving is not a d	lesirable Balance F	actor value of	Answer option
8	an AVL tree					(d)
	a) -1	b) 0		c) 1	d) None of these	None of these
3	Match sortin	g algori	ithm with its h	oasic working princ		Answer option
9			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-r	(b)
	A Selection	1	i) In each itera	ation, one element i	s inserted	
	Sort			t position ina sorted		
	B Bubble S			ingle element sub li		
			manner that re	esults into a sorted l	ist.	
	C Insertion		-	s adjacent elements		
				positions if they ar	e out of	
			order.			
	D Merge So		*	smallest element in		
			unsorted array	and brings it to the	e front.	

	` · · · · ¬	1		10 1 111 75	
		b) A-iv, B-iii, C-i,		·	A-iv, B-iii, C-i, D-
	iii, D-i, C-	D-ii	iii, C-iv	iv, C-i, D-ii	ii
	iv				
4	Following s	tatements for a B Tre	e of order 'm' are	either True or	Answer option
0	False:				(d) 1
		he leaf nodes appear o	on the same level		(4)
		root node has at least		: 1£	
				is a lear.	
		y node has at most m			
	D. A no	n-leaf node with k chi	ildren contains k-1	keys.	
	C1 11				
-		correct answers from	·		
	· /	b)B and C only	c)D and C only	d)A, B and	A, B and D only
	only			D only	
4	Assertion (A	A): Binary Search is 1	nore efficient than	Linear Search	Answer option
1	for large sor	ted datasets.			(c)
	Justification	(B): Binary Search ha	as a time complexit	v of O(n)	
		(2). Dinary Sourch in	as a time complexit	., 51 5(11)	
$\vdash$	a)Both A	b)Both A and B are	c)A is true, but B	d)A is false,	A is true, but B is
	,			· ·	false.
	and B are	true, but B is not	is false.	but B is true.	raise.
	true, and B	the correct			
	is the	explanation of A.			
	correct				
	explanatio				
	n of A.				
4		aving two children is	deleted from a his	nary tree it is	Answer option
2	replaced by		defected field a Uli	nary arce, it is	(c)
			) T 1	1) 7 1	\ /
	/	b) Right Child	c) In-order	d) In-order	In-order successor
	Child		successor	predecessor	
4	A full binary	tree with 2n+1 nodes	s contain		Answer option
3					(d)
	a) n leaf	b) n-1 leaf nodes	c) n+1 non-leaf	d) n non-leaf	n non-leaf nodes
	nodes		nodes	nodes	
4		ructure suitable for o			Answer option
4		anced parenthesis is		Unpression	(a)
-	a) Stack	b) Queue	c) Tree	d) Array	Stack
1			/	u) Allay	
4	Quartile dev	iation is given by the	iormula:		Answer option
5		T	1 .	T	(a,b,c or d)
	a)	(b)	(c)	d)	
	Q.D.=Q3+	Q.D.= Q3 - Q1	Q.D.=(Q3-	None of	a)
	Q1/2		Q1)/2	above	
4	_	tive skewed distrib	- /		Answer option
6	inequalities			and following	(a,b,c or d)
	-			d)Maa=>===	`
	a)Median>	b)Mode> mean	c)	d)Mean>mo	c) & a)
	mode	1 1 1 2 2	Mean>median	de	
	IN/Inda and 1a.	e calculated from a. O	give b. Histogram	e. Bar diagram	Answer option
4					(a b a ard)
4 7	d. Pie-chart	<del>,</del>	1	,	(a,b,c or d)
		b) Histogram	c) Bar Diagram	d)Pie-chart	(a,b,c of d) b)
	d. Pie-chart	<del>,</del>	c) Bar Diagram	d)Pie-chart	
	d. Pie-chart a) Ogive	b) Histogram	,	,	b)
7	d. Pie-chart a) Ogive	<del>,</del>	,	,	

	a) Distributio n becomes bimodal	b) Distribution becomes more concentrated around the mean	c) Distribution becomes negatively skewed	d) The distribution becomes more spread out	b)
4 9	A distributio	n with a kurtosis less	than 3 is known as		Answer option (a,b,c or d)
	a) Playkurtic	b) Mesokurtic	c) Leptokurtic	d)Hyperkurt ic	a)
5 0		dian, mode and mean	of 9,5,8,9,9,7,8,9,8		Answer option (a,b,c or d)
	a) 9,9,9	b) 9,8,9	c) 8,9,8	d) 8,9,9	c)
5	What is the l	kurtosis of a normal o	listribution?		Answer option
1	a) 0	b) 1	c) 2	d) 3	(a,b,c or d) d)
5	/	is a compound staten		/	Answer option
$\begin{vmatrix} 3 \\ 2 \end{vmatrix}$		values of its compone		rue reguraress	(d)
		ogy is a compound		s always true	(-)
		f the truth values of it		3	
		diction is a compour		s always false	
		f the truth values of it		-	
	a) A is	a) A is false, R is	c) A is false, R is	a) A is true,	A is true, R is
	true, R is	true	false	R is false	false
	true				
5	Statements:				Answer option
3	•	Monday. (Atomic pro	- /		(b)
		neeting. (Atomic pro			
		ring argument valid?			
		Monday. Therefore,			NT 41
		b)No, the argument		,	No, the argument
		commits the fallacy			commits the
	is valid	of affirming the		without a	fallacy of
		consequent	about non- Mondays	truth table	affirming the consequent
5	Match the Co	olumns value on the le	•	es on the right:	Answer option
4		orumnis varue on the N			(b)
	$A P \wedge Q$		i. Neither P nor Q i		
	B P V Q		ii P and Q are both	ı true	
	$C \neg (P \lor Q)$	)	iii P or Q		
	$D P \leftrightarrow Q$		iv P if and only if	Q	
	b) A-i . B-	b)A-ii , B-iii , C-i,	c)A-ii , B-iv , C-	d)A-iv , B-ii	A-ii , B-iii , C-i,
				·	
	ii , C-iii, D-	D-iv	i, D-iii	, C-i, D-iii	D-iv
	,	D-iv	i, D-iii	, C-1, D-111	D-1V
5	ii , C-iii, D- iv	D-iv lation of Hyderabad i		, C-1, D-111	Answer option
5 5	ii , C-iii, D-iv P: The popu		s more than Delhi.		
	ii , C-iii, D-iv P: The popu Q: Last year	lation of Hyderabad i , the number of mont	s more than Delhi.		Answer option
	ii, C-iii, D-iv P: The popu Q: Last year A P→Q is	lation of Hyderabad i , the number of mont True	s more than Delhi.		Answer option
	ii, C-iii, D-iv  P: The popul Q: Last year  A P→Q is B (P→Q)-	lation of Hyderabad i , the number of mont	s more than Delhi.		Answer option
	ii, C-iii, D-iv P: The popu Q: Last year A P→Q is	lation of Hyderabad i , the number of mont True	s more than Delhi.		Answer option

	a) Only A is True	b) Only B is True	c) Both Cand D are False	d) Only D is False	Only A is True
5 6	Statements: P: It is raining	ng today. (Atomic pro ry is open. (Atomic p	pposition)		Answer option (b)
	$\rightarrow \neg Q$ ?	e following statement		, ,	
	a)¬P∨Q	$b)P \to \neg Q$	c)¬P ∧ ¬Q	d)P NOR Q	$P \rightarrow \neg Q$
5 7	statement. A: The conv	b)P $\rightarrow \neg Q$ nt "If it is raining, the erse of "If P, then Q" a statement is the orig	is "If Q, then P".		(b)
	b) A is true R is false	c) A is true R is true	d) A is false R is true	d) A is false R is false	A is true R is true
5 8	F: We can ea	is ready. (Atomic pro at dessert. (Atomic pro e following statement	oposition)	$(\neg E \to \neg F)$ ?	Answer option (a)
		$b) \neg F \rightarrow E$			$E \rightarrow F$
5 9	Multitasking	g in operating systems	s allows for:	[ 0) (2 1)	b
	a) Multiple users to share a single device	b) A single user to perform multiple tasks at one time	c) Devices to run without an OS	d) None of the above	A single user to perform multiple tasks at one time
6 0	Match the fo	ollowing pairs:			
	A. Win	ndows	1. Open Source	ce	
	B. Lin	ux	2. Apple		c
	C. OS-	·X	3. Microsoft		
	D. And	droid	4. Google		
	a) A- 1, B-2, C- 3, D-4	b) A-4, B-1, C-2, D-3	c) A-3, B- 1, C-2, D-4	d) A-2, B-3, C-4, D-	A-3, B-1, C-2, D-4
6 1	Which one of A. Kern session. B. Kern in running of C. Kern memory dur D. Kern Interface.	c			
	a) A and B	b) B and D	c) B only	d) C and D	B only

6	Statements:	Statements:							
2	A: Paging he	A: Paging helps to prevent fragmentation in memory management.							
			a						
		vides the memory int of frames of the same							
	Which of the a) Both A	e following is correct b) Both A and B are		d) A is false					
	and B are	true, but B is not		but B is true	Both A and B are				
	true, and B	the correct			true, and B is the				
	is the correct	explanation for A.			correct				
	explanatio				explanation for A.				
6	n for A. A process is	•							
3					a				
	a) An instance of	b) A set of instructions stored	c) The same as a thread.	d) A type of computer	An instance of a				
	a program	on disk.		virus.	program in				
	in execution.				execution.				
6		s algorithm is used fo	r:		b				
4	-)		l a) Managara	d) D	U				
	a) Detecting	b) Preventing deadlocks	c) Memory allocation	d) Process scheduling	Preventing deadlocks				
	deadlocks	deadlocks		_	deadlocks				
6	In a timesha	re operating system, v	hen the time slot a	ssigned to a					
5	•	ompleted, the process	switches from the o	current state	С				
	to:								
	a) Sus	b) Terminated	c) Ready	d) Bloc					
	pended state	state	state	ked state	Ready state				
6		copied into main menthe requirement.	nory from the secon	ndary memory	Answer option (a)				
	according to	the requirement.			(a)				
	a) Me	b) Threads	c) Fragmen tation	d) Seg mentation	Memory Swapping				
	mory Swapping		tation	mentation	Swapping				
		6 3	1 1		A				
6 7	Choose the c	correct answer from the List I	ne option given belo List II		Answer option (b)				
	A Switchin		I Mutual Exclusion						
	B Wait sign	nal	II Transition of a p						
	C Cache		one state to anothe						
	D Deadlocl	K.	III Principal of Loc IV Circular wait	Latity					

				I	
	a) A-IV, B-I, C-III, D-	b)A-II, B-I, C-III, D-IV	c)A-I, B-II, C-III, D-IV	d)A-IV, B- III, C-I, D-II	A-II, B-I, C-III, D-IV
	ÍÍ		,		
6	Which one of the following errors will be handled by the Operating System?				Answer option (d)
	a) Lac	b) Connection	c) Software	d) All	All of the above
	k of paper	failure in the	failure	of the above	7 th of the above
	in printer	network	exception	of the above	
6	_				Answer option
9	Type Questions here for assertion and justification				(b)
	Assertion (A): The operating system functions as a software				(6)
	•	cilitating communic			
		rdware and software			
		Windows operating s	ystem has recently	transitioned to	
	an open-sour				
	a)Both A	b)Both (A) and (R)	c)(A) is True but	d)(A)is	Both (A) and (R)
	and R are	are correct and (R)	(R) is False.	False but (R)	are correct and (R)
	correct and	is not the correct		is True.	is not the correct
	R is correct	explanation of (A).			explanation of (A)
	explanatio				
	n of (A).				
7	Information	about the process is n	naintained in		Answer option
0			1		(a)
	a) Process	b) Stack	c) Program	d) Transition	Process control
	control		control block	lock side	block
	block	1 0	: 6	buffer	
7	A systematic another is	c procedure for mov		one state to	Answer option (d)
	A systematic another is a) Sy	c procedure for mov  b) Deadlock	ing a process fron	d)Context	•
	A systematic another is  a) Sy nchronizat	•		one state to	(d)
	A systematic another is a) Sy	•	c) Starvati	d)Context	(d)
1	A systematic another is  a) Sy nchronizat ion	b) Deadlock	c) Starvati	d)Context	(d) Context Switching
7	A systematic another is  a) Sy nchronizat ion	•	c) Starvati	d)Context	(d) Context Switching Answer option
1	A systematic another is  a) Synchronizat ion  Match the list	b) Deadlock	c) Starvati	d)Context Switching	(d) Context Switching
7	A systematic another is  a) Sy nchronizat ion  Match the list	b) Deadlock st(I) with List(II)	c) Starvati on  I Resource allocat	d)Context Switching	(d) Context Switching Answer option
7	A systematic another is  a) Sy nchronizat ion  Match the list  A IPC  B Demand	b) Deadlock st(I) with List(II) c's Paging	c) Starvati on  I Resource allocate Ii Computational S	d)Context Switching	(d) Context Switching Answer option
7	A systematic another is  a) Sy nchronizat ion  Match the list  A IPC  B Demand'  C Banker's	b) Deadlock st(I) with List(II) c's Paging	c) Starvati on  I Resource allocat	d)Context Switching	(d) Context Switching Answer option
7	A systematic another is  a) Sy nchronizat ion  Match the list  A IPC  B Demand'  C Banker's  D PCB	b) Deadlock  st(I) with List(II)  s Paging  Algorithm	C) Starvati on  I Resource allocat Ii Computational S Iii Task Control B Iv Virtual Storage	d)Context Switching	(d) Context Switching  Answer option (b)
7	A systematic another is  a) Synchronizat ion  Match the list  A IPC  B Demand  C Banker's  D PCB  a)A-II, B-	b) Deadlock  st(I) with List(II)  S Paging Algorithm  b)A-II, B-IV, C-I,	C) Starvati on  I Resource allocat: Ii Computational S Iii Task Control B Iv Virtual Storage  c)A-I, B-II, C-	d)Context Switching  ion Speedup lock  d)A-II, B-	(d) Context Switching  Answer option (b)  b) A-II, B-IV, C-I,
7	A systematic another is  a) Synchronizat ion  Match the list  A IPC  B Demand'  C Banker's  D PCB  a)A-II, B-I, C-IV, D-	b) Deadlock  st(I) with List(II)  S Paging Algorithm  b)A-II, B-IV, C-I,	C) Starvati on  I Resource allocat Ii Computational S Iii Task Control B Iv Virtual Storage	d)Context Switching  ion Speedup lock  d)A-II, B-III, C-I, D-	(d) Context Switching  Answer option (b)
7 2	A systematic another is  a) Sy nchronizat ion  Match the list  A IPC  B Demand'  C Banker's  D PCB  a)A-II, B-I, C-IV, D-III	b) Deadlock  st(I) with List(II)  s Paging Algorithm  b)A-II, B-IV, C-I, D-III	C) Starvati on  I Resource allocat Ii Computational S Iii Task Control B Iv Virtual Storage  c)A-I, B-II, C- III, D-IV	d)Context Switching  ion Speedup lock  d)A-II, B-	(d) Context Switching  Answer option (b)  b) A-II, B-IV, C-I, D-III
7 2 7	A systematic another is  a) Sy nchronizat ion  Match the list  A IPC  B Demand'  C Banker's  D PCB  a)A-II, B-I, C-IV, D-III	b) Deadlock  st(I) with List(II)  S Paging Algorithm  b)A-II, B-IV, C-I,	C) Starvati on  I Resource allocat Ii Computational S Iii Task Control B Iv Virtual Storage  c)A-I, B-II, C- III, D-IV	d)Context Switching  ion Speedup lock  d)A-II, B-III, C-I, D-	(d) Context Switching  Answer option (b)  b) A-II, B-IV, C-I, D-III  Answer option
7 2	A systematic another is  a) Sy nchronizat ion  Match the list  A IPC  B Demand'  C Banker's  D PCB  a)A-II, B-I, C-IV, D-III	b) Deadlock  st(I) with List(II)  s Paging Algorithm  b)A-II, B-IV, C-I, D-III  c rule below is known	C) Starvati on  I Resource allocat Ii Computational S Iii Task Control B Iv Virtual Storage  c)A-I, B-II, C- III, D-IV	d)Context Switching  ion Speedup lock  d)A-II, B-III, C-I, D-	(d) Context Switching  Answer option (b)  b) A-II, B-IV, C-I, D-III
7 2 7	A systematic another is  a) Sy nchronizat ion  Match the list  A IPC  B Demand'  C Banker's  D PCB  a)A-II, B-I, C-IV, D-III	b) Deadlock  st(I) with List(II)  s Paging Algorithm  b)A-II, B-IV, C-I, D-III	C) Starvati on  I Resource allocat Ii Computational S Iii Task Control B Iv Virtual Storage  c)A-I, B-II, C- III, D-IV	d)Context Switching  ion Speedup lock  d)A-II, B-III, C-I, D-	(d) Context Switching  Answer option (b)  b) A-II, B-IV, C-I, D-III  Answer option
7 2 7	A systematic another is  a) Sy nchronizat ion  Match the list  A IPC  B Demand'  C Banker's  D PCB  a)A-II, B-I, C-IV, D-III	b) Deadlock  St(I) with List(II)  S Paging  Algorithm  b)A-II, B-IV, C-I, D-III  c rule below is known $(a \times b) \times c =$ b) associative	c) Starvati on  I Resource allocat: Ii Computational S Iii Task Control B Iv Virtual Storage  c)A-I, B-II, C- III, D-IV  as $a \times (b \times c)$ c) distributive	d)Context Switching  ion Speedup lock  d)A-II, B-III, C-I, D-IV	(d) Context Switching  Answer option (b)  b) A-II, B-IV, C-I, D-III  Answer option b  associative
7 2 7	A systematic another is  a) Synchronization  Match the list  A IPC  B Demand' C Banker's  D PCB  a)A-II, B-I, C-IV, D-III  The algebrain	b) Deadlock  St(I) with List(II)  Solve Paging  Algorithm  b) A-II, B-IV, C-I, D-III  c rule below is known $(a \times b) \times c =$ b) associative property of	c) Starvati on  I Resource allocat: Ii Computational S  Iii Task Control B  Iv Virtual Storage  c)A-I, B-II, C- III, D-IV  as $a \times (b \times c)$ c) distributive property of	d)Context Switching  don Speedup lock  d)A-II, B-III, C-I, D-IV  d) Identity property of	(d) Context Switching  Answer option (b)  b) A-II, B-IV, C-I, D-III  Answer option b  associative property of
7 2 7	A systematic another is  a) Synchronizat ion  Match the list  A IPC  B Demand'  C Banker's  D PCB  a)A-II, B-I, C-IV, D-III  The algebrain  a)commutative property of	b) Deadlock  St(I) with List(II)  S Paging  Algorithm  b)A-II, B-IV, C-I, D-III  c rule below is known $(a \times b) \times c =$ b) associative	c) Starvati on  I Resource allocat: Ii Computational S Iii Task Control B Iv Virtual Storage  c)A-I, B-II, C- III, D-IV  as $a \times (b \times c)$ c) distributive	d)Context Switching  ion Speedup lock  d)A-II, B-III, C-I, D-IV	(d) Context Switching  Answer option (b)  b) A-II, B-IV, C-I, D-III  Answer option b  associative
7 2 7	A systematic another is  a) Synchronization  Match the list  A IPC  B Demand' C Banker's  D PCB  a)A-II, B-I, C-IV, D-III  The algebrain	b) Deadlock  St(I) with List(II)  Solve Paging  Algorithm  b) A-II, B-IV, C-I, D-III  c rule below is known $(a \times b) \times c =$ b) associative property of	c) Starvati on  I Resource allocat: Ii Computational S  Iii Task Control B  Iv Virtual Storage  c)A-I, B-II, C- III, D-IV  as $a \times (b \times c)$ c) distributive property of	d)Context Switching  don Speedup lock  d)A-II, B-III, C-I, D-IV  d) Identity property of	(d) Context Switching  Answer option (b)  b) A-II, B-IV, C-I, D-III  Answer option b  associative property of

7	For the polynomial				Answer option
4	$x^2 - 2x - 8$				d
	Which of the following are its factors?				
		C			
	$\begin{array}{ccc} A. & (x + \\ B. & (x - \\ \end{array}$	2)			
	$\begin{array}{ccc} C. & (x + \\ D. & (x - \\ \end{array}$				
	D. $(x - a)A$ only	b) B only	c) A and C only	d) A and D only	A and D only
7 5	What is the	rank of the following	matrix?	1 01119	Answer option
3		$\begin{bmatrix} 1 & 2 \\ 2 & 1 \\ 3 & 0 \end{bmatrix}$	2 3 3 4 3 5]		c
	a) 0	b) 1	c) 2	d) 3	2
7	The value of	f <i>log</i> <sub>8</sub> 16 is			Answer option c
	$a)\frac{1}{3}$	$b)^{\frac{2}{3}}$	$c)\frac{4}{3}$	$d)^{\frac{3}{4}}$	$\frac{4}{3}$
7 7	Consider the	e simultaneous linear $x + 2y = x + 2y$			Answer option b
	x + 2y - 6 = 0 $x - y - 3 = 0$ This system has				C
	a)two solutions	b)one solution	c)no solution	d)infinite number of solutions	one solution
7 8	Value of the determinant below is				Answer option a
	a) 0	b) 1	c) 2	d) 4	0
7 9	Consider the following statements about the roots of the quadratic equation $ax^2 + bx + c = 0$				Answer option a
	A. Sum				
	B. Prod				
	a) Bot h (A) and (B) are true	b) (A) is false but (B) is true	c) (A) is true but (B) is false	d) Both (A) and (B) are false	Both (A) and (B) are true
8	In the sequence 6, 9, 14, x, 30, 41, a possible value of x is				c)
	a) 25	b)20	c) 21	d) 18	21

				,	
8	A. The given figure has				
1	B. The given figure has	٥)			
		a)			
			89		
	a) A is True b) B is True	c) None is true	d) Both are		
	a) Tris frue o) B is frue	c) None is true	true	A is True	
8	The given figure has how m	nany faces?	truc		
2	The given figure has now in	any races.			
				c)	
	a) 1 b) 4	c) 6	d) 8	6	
8	A) Assertion: The g	given figure has 8			
3	squares?				
	B) Justification: Squar	e has equal sides		c)	
		•			
	a) A is true b) B is true	c) Both A and I	B d) none of		
		are True	these are	Both A and B are	
		are true	true	True	
8	I		truc		
4	Match the following				
'	A. Brush	.Paper			
		-			
	B. Student	i.Class		d)	
	C. Keyboard	Keyboard i.Paint			
	D. Pen	.Computer	/ Computer		
	D. Ten				
		<u> </u>	10 4 70	D C . D	
	a) A-i, B-ii, b) A-i, B-ii,			A-iii, B-ii, C-iv, D-	
	C-iii, D-iv D-iii	iii, D-iv	C-iv, D-i	1	
8	In a certain code language,				
5	"GRAIN" is written as "76.	598". How is "GRUNT	" written in that	b)	
	code language?	10000	<b>-</b>		
	a) 72345 b) 76384	c) 84563	d) 64347	76384	
8	L, M, N, O and P are sitting				
6	together. N is sitting at nort	h end and O is sitting a	t south end. P is		
	the neighbors of M and N.			c)	
	A) Assertion: M is third				
	B) These persons are si				
	a) A is True b) B is True	a) Dath and Ton	e d) None of		
	a) A is True b) B is True	c) Both are True	· ·	D - 41 T	
			these are	Both are True	
	TC A :	D	True		
8	If A is any vector with $A$	a			
7	component of the vector?	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1) 0	D '4	
	a) B units b) A units	c) C units	d) Square	B units	
			root of a sum		
			of squares of		
			the three, i.e.		
			A, $B$ and $C$		
8	The points $(-5, 1)$ , $(1, p)$ an		d		
8	Choose the correct answer f				

	Λ "_2				
	A. p=3				
	B. p=2				
	C. p=1				
	D. p=-1				
	, , , ,	1) 7	T		-
	a) A only	b) B only	c) A or B	d) D only	D only
8	Choose the c	correct matching pairs	<b>:</b>		С
9	1. (x -	$(+y)^2 - (x^2 +$	A. Circle		
	$(y^2) = 0$				
	$\frac{3}{2}$ $x^2$	$+v^2=r^2$	B. Two lines		
	$\frac{2}{3}$ $(x -$	$y^2 = r^2$ - $h)^2 + (y - k)^2 = 0$	C. Two parall	el lines	
	$\begin{vmatrix} 3 & (\lambda \\ r^2 & \end{vmatrix}$	$n_j + (y - k_j) = 1$	C. Two param	ici illics	
		$+y^2-2hx-$	D. True mustu	-11	
		•	D. Two mutus	•	
	2ky + c =		perpendicular line		
			c) 1-D, 2-A, 3-	d) 1-D, 2-D,	1-B, 2-C, 3-D, 4-A
	B, 3-C, 4-	4-A	A, 4-A	3-C, 4-B	
	D				
9	This equation	on describes a circle:	$x^2 + y^2 - 6y =$	0. What is the	С
0	radius of the		<i>y</i> - <i>y</i>		
Ħ	a) 1	b) -2	c) 3	d) 2	3
9	Match the fo	/	ı -/ ~		b
1			ha contar of A	-2.5	U
1		ar from the y-axis is t		-2.3	
		urve $2x^2 + 2y^2 + 1$	10x - 6y -		
	55 = 0				
		is the radius of		-3.0	
	represe				
	9 = 0 ?				
	III. What are the coordinates of the center C. (2, -3)				
	of the ellipse $\frac{x^2}{9} + \frac{y^2}{4} = 1$ ?				
	IV. How far from the origin is the center of D. 5				
	the hyperbola $\frac{(x-2)^2}{4} - \frac{(y+3)^2}{9} = 1$ ?  a) I- b) I-A, II-D, c) 1-b, 2-a, d) 1-c,				
	the my	4 9	- <b>.</b> .		T
	a) I-	b) I-A, II-D,	c) 1-b, 2-a,	d) 1-c,	I-A, II-D, III-B,
		III-B, IV-C	3-d, 4-c	2-a, 3-b, 4-d	IV-C
	III-C, IV-D				
9	In right hand				
2	positive?	-			a
	-				
	a) The	b) The thumb is <i>x</i> -	c) The thumb is	d) The	The thumb is <i>z</i> -
	thumb is z-	axis, fingers curled	/	/	
	axis,	from z-axis to y-	curled from $x$ -		. •
	-	•	axis to z-axis	curled from	axis
	fingers	axis	axis to z-axis		aals
	curled			y-axis to $x$ -	
	from x-			axis	
	axis to y-				
	axis				
9	The valu	ies of h fo	or which th	e equation	a
3	$3x^2+2hxy-3y^2-40x+30y-75=0$ represents a pair of straight lines,				
	are				
	alc				
		1			

	a) 4, 4	b) 4, 6	c) 4, - 4	d) 0, 4	4, 4
9	What is the	value of $\lim_{x \to a} \frac{xy}{x^2}$	?		d)
4	What is the value of $\lim_{\substack{\lim x \to 0 \\ \lim y \to 0}} \frac{xy}{x^2 + y^2}$ ?				
	a) 0	b) 1	c) -1	d) Limit	Limit does not
				does not	exist
	C :1 41	C 11 : 4 4	1 1 41	exist	,
9 5		e following statements		-	a)
)		domain of the functio domain of the functio			
	D. THE	domain of the function	111(x)-2x-118(0,0)	ω)	
	a) A	b)B is true	c) Both are true	d) None of	A is true
	is true	,		these	
9		e following statement			d)
6	′	function $x^{2}+x$ is an ev			
	ii) The	function $e^{x^2}$ is an odd			
	a) i) is true	/ /	c) Both are true	d) Both are	Both are false
	and ii) is	is true		false	
	false				,
9	Match the fo	ollowing	D		c)
7	Function Derivative				
	A. $f(x) = x^2$ $f'(x) = \cos(x)$				
	B. $f(x)=\sin(x)$ i.f'(x)= 2x				
	C. $f(x)=f(x)=e^x$ i.f'(x)= 1/x				
	D. $f(x)=\ln(x)$ '.f'(x)= $e^x$				
	a)A-i, B-ii,	b)A-i, B-ii, C-iii,	c)A-ii, B-i, C-iv,	d)A-i, B-ii,	A-ii, B-i, C-iv, D-
	C-iii, D-iv	D-iv	D-iii	C-iii, D-iv	iii
9	A. The function $ x $ is differentiable at $x = 0$				b)
8		function  x  is not diff			7.
	a)A is true	b) B is true	c) Both A and B are true	d)none of these true	B is true
9	The local ma	c)			
9	A. first				
	B. secon	nd derivative	T.	T	
	a)A only	b)B only	c) Both A and B	d)Neither A nor B	Both A and B
1	The value of	$\int \lim \frac{Tan x}{x}$ is			d
0	$\lim_{x \to \infty} x$				
0		F			
	a) 0	b) 1	c) ∞	d) Does not	Does not exist
				exist	