COMPUTER SCIENCE & ENGINEERING

Q.1	Files of windows operating system are stored in the following folder						
	(1) administrative t	cools	(2) program files	in healing (A)			
	(3) control panel	Biliab koromanina.	(4) system 32	if its nedW			
Q.2	The following is not	t a process state	sie- bus seldul servi				
	(1) ready	(2) communicating	(3) running (4)	blocked			
Q.3	A process is		repare aquif-montatur tri				
	(1) a subset of asso	ociated threads	(2) a super set of ass	ociated threads	3		
	(3) totally independ	dent of threads	(4) a hardware featu	re			
Q.4	internal fragmenata		cinclas name "I s				
	(1) segmented mer	nory management is us	distanted name				
		management is used	new levi				
	(3) cache manager	nent is used	Might beneficial unit 18				
	(4) RAID disks are	used	esetiani ij buker		6		
Q.5	In segmented mem	ory management, the p	nysical address is com	puted by			
	(1) adding base ac	(1) adding base address of a code segment to the offset of the data segement					
	(2) adding all logic	al addresses	Tifutudes wan a stab		7 6		
	(3) adding segmen	t offset to the segment	ase address		4.		
31 9 1714	(4) accessing free	space list	sola state dining		9.3		
Q.6	Elevator algorithm		aregar - 102 set unite				
	(1) CPU scheduling	Byrns Of - Sev. 1 1.01	(2) deadlock prevent	ion			
	(3) disk interface		(4) cache managem	ent (I.			
Q.7	The following is no	t an operating system s	rvice.	munglosis (S)			
	(1) program execu	tion	(2) controlling I/O de	evices			
₹ € =	(3) user interface	radical a Bridge of Hall	(4) debugging	mooridata A			
Q.8	All modern operati	ng system are	adlL. i. sand sisi	rowi Pra or off	3		
sult or	(1) multi threading	g (2) open source	(3) single user (4) debugging			
Q.9	Configuration info	rmation in windows ope	rating system is locate	ed in			
	(1) .sys files	n enume a 1- 1H di IW az	(2) CMOS memory				
	(3) track 0 of the 1		(4) the registry	Ti = Senso			
Q.10	The following is no	ot a DBMS	Mari other trains	is to B.H.B.			
	(1) DB2	(2) websphere	(3) MuSQL (4) oracle			

					ECET (Cor	nputer S	Science and E	ngine	ering)
Q.11	In a	relationa	l table, the p		IGAG M				
			e a composi				he super key		
	(3)	is one of	the candidat	e keys	(4) car	have ni	ıll vəluo		
Q.12	A re	elation wh	ere there is n	o partial der	endency of	any colu	mn on the prim	2001	:- :-
	(1)	4^{th} and h	igher normal	forms only		uny colu	min on the prim	ary ke	y is in
			rd normal for	•					
	(3)	1st norma	al form and 2	nd normal for	rm only				1.0
	(4)	2 nd and h	igher normal	forms			administrative t		
Q.13					elational da		entrol panel		
	(1)	entities b	ecome tables	and relation	ships becom	ne fields	ton ar paratolioi	1971 10 ml T	0.0
	(2)	entities b	ecome fields	and relations	ships becom	e tables		n (II)	2.50
	(3)	both entir	ties relations	nips become	tables	o tables			0.0
	(4)	entities b	ecome table :	and relations	ships become	e keus	subset of asso	aq A	٧,٧
Q.14	In a	database	table contai	ning non-ato	mic field is	o nego			
	(1)	not even	in 1 st normal	form					
	(2)	in 1st nor	mal form, bu	t not in high	er normal fo	rms	nal fragmenata egmented men		
	(3)	in 2^{nd} nor	mal form						
	(4)	in 3 rd nor	mal form but	not in 2 nd no	ormal form		paged memory		
Q.15	In D	BNS, a 'v	iew' can be c	onsidered as	3		กรียลกลศา รูปปลว		
	70.00.1953	a virtual t				irtual dat	abase		
	(3)	a table wi	thout record	S	(4) a fu	ıllv norm	alized table		0.5
Q.16	In D	BMS, to	create a new	column in a	table, we ha	ave to us	e de ding binaban		
		DML	(2) DC		(3) DD		(4) TCL	(2)	
Q.17	A da	atabase ta	ble named 'pe	erson' has the	e fields {nam	ne. sex. a	ge weight) wh	(8)	ma is
	A database table named 'person' has the fields {name, sex, age, weight}, where name any string, sex is (male, female), age between 1-100, weight between 1-100. What is to				is the				
	outp	out genera	ited by the SC	JL stagemen	t	11 11 11 6	i midinofiju idje	vs]	0.6
	SEL	ECT COU	NT (*) FROM	M person WF	IERE age <	10 group	by sex	(1)	
			ve number	nioso (II)			disk interlade	(8)	
	(2)	a table co	ntaining the	details of all	persons les	s than 1(years age		0.7
			ntaining two				program execut	(1)	
0.10	(4) Ti	a table co	ntaining age	s and sex of	all persons l	ess than	10 years age		
Q.18	The	re are two	data base ta	ables. The fi	rst one is 'su	bject co	ntaining the fie	lds (su	bject
	_ID, subject_name, marks, student_ID). the second one is 'student' containing the fields(ID, name). Find the SQL statement which gives the marks of radhika in the subject								
	DBN	AS.	ogiabal er me	QL statemen	it which give	s the ma	rks of radhika in	the su	ıbject
	(1)	SELECT r	narks FROM	subject marks	s WHERE etc	ıdent nar	ne = "Radhika"	and a	ıhia -1
		name = "	DBMS"	141 11			d and to ll distri	and St	ioject
	(2)	SELECT	subject.mar	ks FROM su	ıbject WHE	RE subj	ect.ID = stud	ent.ID	and

student.name = "Radhika" and subject_ID = "BDMS"

Q.24

Q.25

Q.26

Q.27

Ques	tion Paper-2015 ————————————————————————————————————	
	(3) SELECT marks FROM subject WHERE student.student_ID = student.ID and student.name = "Radhika" and subject _ name = "DBMS"	
	(4) SELECT subject.marks FROM subject and student WHERE ID = student.ID and name = "Radhika" and subject _ name "DBMS"	
Q.19	The following operators is not supported in PL/SQL:	
Q.20	(2) % $(3) <> (4) 11$	
Q.20	(1) a program contains zero or more objects	
	(2) in a well-written program, every object must define friend functions(3) a class in instantiated from its object	
	(4) the objects interact by passing messages	
Q.21	Which of the following statement is false	
~ -	(1) a destructor cannot pass parameters	
	(2) a constructor must always be used along with a destructor	
	(3) a constructor is a member function	
	(4) a destructor can be either public or private	
0.22	In C++, cin is	
~.	(1) a method (2) an object	
	(3) an operator (4) a predefined function	
0.23	The output of the following C++ code	
Q. _0	1) for (int $a = 0$; $a < 10$; $a + +)$ {	
	cout <<++a;	
	AFT Enfants - Wall has AGT energy (A)	
	(1) 0 1 2 3 4 5 6 7 8 9 (2) 1 3 5 7 9	
* 1115	(3) 0 2 4 6 8 10 (4) 1 2 3 4 5 6 7 8 9 10 11	
0.24	In C++, the following operator is used to call object destructor:	
	(1) delete (2) deallocate (3) destroy (4) destruct	
Q.25	In C++, overloaded functions must differ in	
1	(1) return type (2) number of parameters passed	
	(3) types of parameters passed (4) either number or types of parameters	
O.26	An abstract call must contain	
- H	(1) only pure virtual functions (2) any virtual function	
	(3) at least one pure virtual function (4) at least one virtual function	
Q.27	Correct the following C++ code	
(1) int*a,c = 10; cin>>a;c = c-a; cout < <c;< th=""></c;<>		
	(2) int*a,c = 10; cin>>&ac = c-&a cout < <c:< th=""></c:<>	

(3) int*a,c = 10; cin>>*a;c = c-*a; cout <<c;

(4) int*a,c = 10; cin>>a;*c = *c-&a; cout <<*c;

	Do the following to correct the above code			24.0
	(1) make 'compute' private	(I) distance (10)		
	(2) insert line 'friend compute()' in the beginning of main			
1.0	(3) replace 'new compute' by 'new myfund		Side turber. 'and unit.	84.0
	(4) replace all occurances of 'compute' by	'myproblem' in th	ne 1 st line of main	
Q.35	A java interface is		stoup church bin in	
	(1) an abstract class	(2) not a class	The supp a of the f	53.0
	(3) a package		of implemention cod	
Q.36	In java, a 'try' block		e di e Hime ou	
	(1) is followed by a single 'catch' block on	ıly		
	(2) is always followed by a 'finally' block		18 Sportse, Write (182	
	(3) is followed by one or more 'catch' bloc	cks	gool	
	(4) is never followed by a 'finally' block	-I (S)	E.I. (1)	
Q.37	The following is not a pedefined class in ja	ava:	disversos HcA ai	25
	(1) string (2) hashtable	(3) object	(4) std	
Q.38	The following is not a true in case of java i		PO de essan AbF.	en G
	(1) java references are used to access obje		Heligmen !!	
	(2) arithmetic cannot be performed on jav	a references	roumes ad rib (2)	
	(3) a reference cannot be cast to a differe		velled and to vold W	98.9
	(4) a java reference variable can be used refer an other reference variable			
Q.39	Overloading operators in java	Martin Dalin Land		
· -, ·	(1) is performed by using a special function	on	uz wie netr [4]	
ii) m	(2) is not possible	(2) I ama 1 (2)	in the	W 2
	(3) is allowed only for the operators '*','>	>' and '<<".		
	(4) is easier than in $C++$	ogen Tille valler	step Grak . (1)	
Q.40	() the interest		The solient self	53 ** * V
	(1) In developed countries	(2) in USA	A - JA - D'A (I)	2. 1.2
	(3) anywhere	(4) in major citie	28. 19.8 + 0.8 18.	
Q.41	A domain name is converted to IP address	by		îā.
	(1) DNS (2) FTP	(3) www	(4) DHCP	
Q.42	The following protects a private network fr	om unauthorized	access:	
	(1) firewall (2) fire wire	(3) https	(4) zip	
Q.43	HTML uses the entity & mbps; to insert the	e following in the	displayed text:	\$.ē.()
	(1) newline	(2) backspace		11
	(3) space	(4) new black sc	reen pointer	
Q.44	The following statement declares an array	with 10 elements	in VB script	
	$(1) < dr > \qquad (2) < col >$	(3) 		

Q.45	The following statement declares an array with 10 elements in VB script				
	(1) dim words [10]	(2) dim words (9)			
	(3) dim words (10)	(4) dim words (9)			
Q.46	Any statement that starts with the follo	wing is treated as a comment in VB scrip	ot		
	(1) a slash	(2) a slash followed by an asterisk			
	(3) a double quote	(4) a single quote	0.35		
Q.47	The output of the following code:	(I) an abstract class			
	i = 16	(3) a parkage			
	Do until i < 15	donld'unt a avaint	0.36		
	i = i - 2	(1) is followed by a single catch block			
	response write (ile " <hr/> ")	mid viteatly a vet followed by a 'tinativ blog			
	Loop	el element sentici via soni i del complete del la complete del la complete del la complete del la complete del			
	(1) 13 (2) 14	(3) 15 (4) blank			
Q.48	In ASP, to move the next record in a red	cordset, we use the method			
	(1) next move (2) loop	(3) next (4) move Next	10.50		
Q.49	To access an ASP server component, fi	rst we have to			
	(1) compile it	(2) export the object			
	(3) dit the component	(4) creat an object of it			
Q.50	Which of the following statement are tre				
	I. shift registers are combinational circ				
	II. flip-flops are sequential circuits	(4) a java reference variable can be use			
	III. counters are sequential circuits	Overloading operators in java			
	(1) all (2) I and III	(3) I and II (4) II and III			
Q.51	What logic gate is produced if an inverter is added to each of the three inputs of an OF				
	gate	. ' stelleward only to the operators '			
	(1) a NAND gate (2) an AND gate	(3) an XNOR gate (4) a NOR gate			
Q.52	The bollean expression C+ABC" is equi	ivalent to			
	(1) A'C + AB + AB'C	(2) A'B +AC + A' BC			
	(3) B' C + BC' + ABC'	(4) AC' + B'C + ABC			
$\mathbf{Q.53}$	1 1	A domain name is converted to IP addr	0.41		
	1 1 1	971 (1)			
	The boolean expression corresponding	to the above K -map is	0.42		
	(1) $\Sigma m(0, 2, 6)$ (2) $\Sigma m(2, 4, 5, 6, 8)$	3) (3) $\Sigma m(0, 3, 7)$ (4) $\Sigma m(1, 2, 6)$			
Q.54	X Y output	HTML uses the entity & mhps: to msert	0.43		
	0 0 A	. Description .			
	(4) men blaßkischen bitint i 0				
	1 H of eler Dants of VB Orri t 1	The following statement declares an arr	0.44		
	$1 \leq \operatorname{mage} \mathbf{C}$ (4) $\mathbf{D} \leq \operatorname{prin} \geq \mathbf{C}$	< los > (2) < dr>			

. ..

	The same of the sa	(Computer Science and Engineering)			
Q.71	In register indirect addressing mode, the data is present in a location whose address is in				
	(1) the instruction pointer (2) the instruction				
	(3) a designated register				
Q.72	A computer has 1 GB of main memory wit	h an access time of 100 ns and 128 KB of			
	cache with an access time of 10 ns. What is the average access time, if the hit i				
	95% (4) 3 (8)	(2) 32			
	(1) 12.8 ns (2) 14.5 ns	(3) 95.5 ns (4) 4.5 ns			
$\mathbf{Q.73}$		pting devices a computer system can handle			
	d in the following time period	O.58 8086 microprocessor was developed			
	(1) one (2) eight	(3) thirty two (4) unlimited			
Q.74	DMA transfer is preferable, compared to pre-	ogrammed I/O, if			
	(1) the I/O device is fast and the data to be	transferred is large			
	(2) the I/O device is slow and the data to b	e transferred is large			
	(3) the I/O device is slow and the data to b	e transferred is small			
	(4) the I/O device is fast and the data to be	e transferred is small			
Q.75	Cost per bit of memory is cheapest in	200(F) = 0 (2)			
	(1) main memory (2) magnetic disk	(3) cache memory (4) pen drive			
Q.76	Average access time of virtual memory is	11d 02 (2) 20 bit (2) 20 bit			
	(1) less than that of cache	Q.63 Data is given within the instruction			
	(2) greater than secondary storage	(1) direct addressing mode			
	(3) greater than cache and less than main	memory			
	(4) greater than main memory and less tha	n secondary storage			
Q.77		y required to execute an instruction			
		(2) Allland zoro or more registers			
	(3) control unit	(4) control unit, ALU and registers			
Q.78	A C compiler reserves the following amount	123 4 11 4 5 1 101			
		(3) 2 ¹⁶ bits (4) 8 bytes			
Q.79	A linked list is	(1) 32 GB (2) 4 GB			
	(1) a linear data structure	Q.67 On-chip memory management unit			
	(2) a non linear data structure	(1) 8086 (2) 80286			
	(3) neither a linear nor a non linear data st	Care waveform of the microproperty			
	(4) an array of pointers	SVEW 9101 (Z) SQUATE WAVE			
Ο.80	Every C string is terminated by	Q.69 The manussa in a floating point nur			
Q. 00	(1) eoln (2) eof	(3) null (4) -1			
0.81	When using binary search to search a list of				
W.OI		(2) at best 1			
		(4) $\log_{10} N$ in the worst case			
	(0) 211	(1) 1081011 III IIIE WOISI Case			

The following parts of the CPU are definitely required 84. Consider the C code to execute an instruction d = 12 + 6/3 - 1; Control unit and ALU The value of d is ALU and zero or more registers. (1) Control unit (3) (2) Control unit, ALU and registers A 'C' compiler reserves the following amount of storage 78. (4) for an integer variable 85. The maximum number of nodes that can be accommodated 4 bytes in a binary tree of height 'h' is 2 bytes **(2)** $2^{h-1} + 1$ (1) 216 bits $\log_{2}(h+1)$ 8 bytes (4) $2^{b+1}-1$ A linked list is 79. (4) $2^{b-1}-1$ A linear data structure The following is the best data structure to implement a A non linear data structure 86. Neither a linear nor a non linear data structure queue An array of pointers Binary tree Linked list Every C string is terminated by 80. Circular list Eoln (1) Binary search tree Eof **(2)** Consider the C code Null (3) 87. int compute(int b, int a) $\{a = 0; b = 0; return a;\}$ (4) When using binary search to search a list of N items, the main() { number of comparisons are? int a = 10; At most 2" int b = 20; At best 1 (2) compute(a, b); 2 N printf("%d%d/n", a,b); Log₁₀N in the worst case Consider the following unsorted data: 67 33 6 23 10 82. 500 53 After one pass of bubble sort algorithm, the data What is the output? (1)would become (2) 67 33 23 6 10 53 500 (1) 10 0 (3) 33 67 6 23 10 500 53 10 20 (4) (3) 33 6 23 10 500 53 67 In OSI reference model, the layer immediately below (4) 33 6 23 10 67 53 500 88. application layer is Consider the C code 83. Presentation layer int b, a = 10; Data link layer main() Session layer (3) Transport layer $b = b + a + + \dots a;$ A coaxial cable contains 89. print("% d/n", b); An inner core sorrounded by an insulator that is grounded The output is An inner core that acts as ground and an outer sheath carrying signal. (1) 0 Two conductors carrying two different signals (3) 11 1 An outer sheath that is grounded and surrounded (4)

by insulation

(4) 9

E-CET (Computer Science and Engineering) \mathfrak{P} A layer I parisch is same 25 (I) A network heb (2) A network switch A network router (4) RJ 45 91_ A class C network can have a maximum of 127 computers (2) 255 computers 65535 computers 16777215 computers 92 A protocol to remotely operate a computer is (1) Skype (2) Telnet (3) SMIPT (4)DHCP Two optical fibers can be joined by using 93. A soldering gun (1) A network bridge (3) Splicing Welding The following is a collision-free protocol (1)**CSMA** (2)Slotted aloha (3) Token bus (4) CSMA/CD 95. HTTP is (1) A protocol (2)A web server A scripting language (3) A pointer to a web page 96. What is the subnet mask that corresponds to a subnet with 5 computers? 0.0.05 (1)255.255.255.8 (2)(3) 255.255.255.248 (4)8.255.255.255 The following network topology requires exactly N-1 97, links to connect N computers: Ring (1)(2)Bus (3) Star (4)Tree A deadlock occurs when 93. Resources conflicts take place (1)(2) A program has large execution time There are voltage spikes (3) Too many functions are used (4)

- The size of virtual memory is limited by the tire 99. Hard disk
 - (1)
 - Main memory (2)
 - Cache (3)
 - ROM (4)
- Ready queue contains 100.
 - I/O devices (1)
 - Programs
 - **Processes** (3)
 - Hardware pin (4)