QUESTION PAPER - 2015 (A.P)

COMPUTER SCIENCE & ENGINEERING

Q.1	Files of windows operating syste	em are stored in	the following	loider
	(1) administrative tools	(2)	program files	
	(3) control panel	(4)	system 32	
Q.2	The following is not a process s	tate		
	(1) ready (2) commun	nicating (3)	running	(4) blocked
Q.3	A process is			
	(1) a subset of associated threa			associated threads
	(3) totally independent of threa	ads (4)	a hardware fe	ature
Q.4	internal fragmenatation results	when	67	CACADEMY ECST /POS
	(1) segmented memory manage	ement is used	- 50	A - Diploma Tungo Prijampenta IV 2.
	(2) paged memory management	nt is used	DES	selchager, Hyderek
	(3) cache management is used			0-66662582/ 68362
	(4) RAID disks are used			9 5352352/ 8148369
Q.5	In segmented memory manage	ment, the physi	cal address is o	computed by
	(1) adding base address of a c	ode segment to	the offset of t	he data segement
	(2) adding all logical addresses			
	(3) adding segment offset to th	ie segment base	e address	
	(4) accessing free space list			
Q.6	Elevator algorithm is used in			
	(1) CPU scheduling	(2	deadlock pre	vention
	(3) disk interface	(4	cache manag	gement
Q.7	The following is not an operation	ng system servi	ce.	
	(1) program execution	(2	controlling I/	O devices
	(3) user interface	(4) debugging	
Q.8	All modern operating system a			
	(1) multi threading (2) open so			(4) debugging
Q.9	Configuration information in w	vindows operat	ing system is lo	cated in
	(1) .sys files	10.50) CMOS memory) the registry	ory .
	(3) track 0 of the hard disk			
Q.10	The following is not a DBMS			
	(1) DB2 (2) websph	nere (3) MySQL	(4) oracle
			2000 DW	

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Q.11	In a relational table, the primary key				
	(1) can not be a composite key (2) can not be the super key				
	(3) is one of the candidate keys (4) can have null value				
Q.12	A relation where there is no partial dependency of any column on the primary key is in				
	(1) 4th and higher normal forms only				
	(2) only in 3 rd normal form				
	(3) 1st normal form and 2nd normal form only				
	(4) 2 nd and higher normal forms				
Q.13	When an E-R model is converted to a relational database.				
	(1) entities become tables and relationships become fields				
	(2) entities become fields and relationships become tables				
	(3) both entities relationships become tables				
	(4) . entities become table and relationships become keys				
Q.14	In a database table containing non-atomic field is				
	(1) not e ven in 1 st normal form				
	(2) in 1st normal form, but not in higher normal forms				

(2) a virtual database

(3) DDL

Q.17 A database table named 'person' has the fields {name, sex, age, weight}, where name is any string, sex is (male, female), age between 1-100, weight between 1-100. What is the

SELECT COUNT (*) FROM person WHERE age < 10 group by sex

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

(2) a table containing the details of all persons less than 10 years age

(4) a table containing ages and sex of all persons less than 10 years age
Q.18 There are two data base tables. The first one is 'subject containing the fields (subject _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

(1). SELECT marks FROM subject marks WHERE student.name = "Radhika" and subject

(2) SELECT subject marks FROM subject WHERE subject.ID = student.ID and

(4) a fully normalized table

(4) TCL

(3) in 2nd normal form

(1) a virtual table

(1) DML

DBMS.

Q.15 In DBNS, a 'view' can be considered as

(3) a table without records

(1) one positive number

. name = "DBMS"

(4) in 3rd normal form but not in 2nd normal form

Q.16 In DBMS, to create a new column in a table, we have to use

(2) DCL

output generated by the SQL stagement

(3) a table containing two values

- (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:
 - (1) **
- (2) %

- (3) <>
- (4) II

- Q.20 The following statement is true in OOP:
 - (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
- Q.22 In C++, cin is
 - (1) a method

(2) an object

(3) an operator

- (4) a predefined function
- **Q.23** The output of the following C++ code
 - 1) for (int a = 0; a < 10; a + +) { cout < < + +a;

}

(1) 0 1 2 3 4 5 6 7 8 9

(2) 13579

(3) 0 2 4 6 8 10

- (4) 1 2 3 4 5 6 7 8 9 10 11
- **Q.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) return type

- (2) number of parameters passed
- (3) types of parameters passed
- (4) either number or types of parameters
- Q.26 An abstract call must contain
 - (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;
 - (2) int*a,c = 10; cin>>&a;c = c-&a; cout << c;
 - (3) int*a,c = 10; cin>>*a;c = c-*a; cout << c;
 - (4) $int^*a_0 = 10$; $cin > a_i^*c = *c-&a$; cout < < *c;

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	Do the following to correct the above co	ode					
	(1) make 'compute' private			F			
	(2) insert line 'friend compute()' in the b	beginning of main					
	(3) replace 'new compute' by 'new myfu	unction'					
	(4) replace all occurances of 'compute'	by 'myproblem' in	the 1 st line of main				
Q.35	A java interface is						
ior <u>—</u> ar komuni	(1) an abstract class	(2) not a class					
	(3) a package	(4) a collection	of implemention co	nte			
Q.36	In java, a 'try' block						
	(1) is followed by a single 'catch' block	only					
	(2) is always followed by a 'finally' blo-	ck	9 B				
	(3) is followed by one or more 'catch' b						
	(4) is never followed by a 'finally' block	k	it.	10			
Q.37	The following is not a pedefined class i	in java :	25 Table 1				
	(1) string (2) hashtable	(3) object	(4) std				
Q.38	The following is not a true in case of ja-	va references	a 3	34			
	(1) java references are used to access	objects					
	(2) arithmetic cannot be performed on java references						
	(3) a reference cannot be cast to a diff	ferent type					
	(4) a java reference variable can be us	sed refer an other re	terence variable				
Q.39	Overloading operators in java						
	(1) is performed by using a special fur	nction	25				
	(2) is not possible	AND THE PROPERTY OF THE PROPERTY OF	4				
	(3) is allowed only for the operators '*	*','>>' and '<<'.					
	(4) is easier than in C++		4	8			
Q.40	On the internet, serves are located	101 - 110 4					
	(1) in developed countries	(2) in USA	141				
	(3) anywhere	(4) in major c	ities				
Q.41	A domain name is converted to IP add		(4) DHCP				
	(1) DNS (2) FTP	(3) www					
Q.42	The following protects a private netwo	ork from unauthorize	a access:				
	(1) firewall (2) fire wire	(3) https					
Q.43		ert the following in t	ne displayed text:				
	(1) newline	(2) backspace					
	(3) space		screen pointer				
Q.44	The following statement declares an a	array with 10 eleme	nts in VB script . (4) 				
	(1) <dr> (2) <col/></dr>	(5) < mig>	. (T) > span				

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Q.45	The following state	ment decla	res an arra	with 10 eler	nents in VB s	cript	
	(1) dim words [10]		8	(2) dim wo			
	(3) dim words (10))		(4) dim wo	ords (9)		
Q.46	Any statement tha		the follow	ng is treated	as a commer	it in VB script	
200	(1) a slash	*			followed by a		
	(3) a double quote		50.	(4) a single	quote		
Q.47	The output of the		de:	10 11 50	10		
vr.y	i = 16		9797,824				
.4	Do until i < 15						
	i = i - 2						
	response, write (i&	"~br/>")					
		(01,7)					
	Loop	(2) 14		(3) 15	(4) bl	ank	
0.40	(1) 13 In ASP, to move th		rd in a reco	13.000		77.1535	
Q.48			iu iii a leco	(3) next	(4) m	ove Next	
0.40	(1) next move	(2) loop	sonant fire		, . ,	0.0	
Q.49		server comp	Jonem, ms	(2) export	the object	9	
4	(1) compile it				an object of it		
	(3) dit the compo			• 1	in object of it	¥27	
Q.50	Which of the follow						
	I. shift registers at			ts		8	29
	II. flip-flops are se						
	III. counters are se			(0) 1 1		4 111	
1	(1) all	(2) I and		(3) I and I		and III	- OB
Q.51	W 558	produced if	an inverter	is added to	each of the th	ree inputs of a	in OK
4	gate	(0)	ID .	(2) VN	OB asta(A) a	NOP gate	
iii) maannanaa	(1) a NAND gate				OR gate (4) a	NON gate	
Q.52	The bollean expre		SC" is equiv	alent to	AC I ALBO		
	(1) $A'C + AB + A$		9 30 1.		AC + A' BC		
	(3) B' C + BC' +	ABC,		(4) AC +	B'C + ABC	8.1	20 11
Q.53			•	*			9.6.
	1						8
	The boolean expression corresponding to the above K-map is (1) $\Sigma m(0, 2, 6)$ (2) $\Sigma m(2, 4, 5, 6, 8)$ (3) $\Sigma m(0, 3, 7)$ (4) $\Sigma m(1, 2, 6)$						
	(1) $\Sigma m(0, 2, 6)$	(2) Σm(2.	, 4, 5, 6, 8)	(3) $\Sigma m(0,$	3, 7) (4) 2	m(1, 2, 6)	
Q.54	XY	output			(2)		
	0 0	Α -					
	0 1	В	S 8			AL 15	
100	. 1 0	С	3			177	
	1 1	D					

	The above truth rep	orėsents				
	(1) a decoder	(2) a de-multiplexer	(3)	a multiplexer	(4)	an encoder
Q.55	The following type	of memory requires per	riodic	refreshing:	20,000	
6	(1) solid state disk	(2) magnetic disk	(3)	ROM .		dynamic RAM
Q.56	The number of flip-	flops required to const	ruct a	divide-by-5 c	ount	er
	(1) 5	(2) 32	(3)		(4)	
Q.57	Minimum power di	ssipation is achieved ir	the f	ollowing logic	fami	ily
	(1) TTL	(2) CMOS	(3)	ECL	(4)	RTL
Q.58	8086 microprocess	or was developed in th	e follo	wing time per	iod	000000000
	(1) 1960 - 1969	(2) 1970 - 1979	(3)	1980 - 1989	(4)	1990 - 1999
Q.59	How many interrup	pt pins 8086 has got				
	(1) 0	(2) 4	(3)	2	(4)	2
Q.60	The length of instru	uction queue in 8086 i	S			g = 17
	(1) 6 bytes	(2) 6 bits		6 instruction	(4)	6 words
Q.61	In 8086, a data see	gment can start at phy				
	(1) 0×59804	$(2) 0 \times 00002$	(3)	0×440D0	(4)	0×580 A90
Q.62	The size of IP regis	ster in 8086 is			772.7970	
	(1) 16 bit	(2) 20 bit	(3)	30 bit	(4)	32 bit
Q.63	Data is given withi	n the instruction in			200	
	(1) direct addressi	ing mode		immediate ac		
	(3) indexed addre		(4)	indirect addr	essin	g mode
Q.64	Size of the shortes	t instruction in 8086			7/20	100 Mg (100 Mg
	(1) 1 byte	(2) 2 byte		4 bytes		8 bytes
Q.65	The minimum mo	de is selected in 8086 t	by app	olying logic 1 i	o fol	llowing pin:
	(1) BHE	(2) MN MX	(3)	READY	(4)	NMI
0.66		y addressable memory	for 80	1486 is		- 13
Q.00	(1) 32 GB	(2) 4 GB	(3)	4 ME	(4)	20 MB .
0.67		management unit was	first in	troduced in		
55 30 ,555-77.	(1) 8086	(2) 80286		80386	(4	80486
Q.68	The waveform of	the microprocessor clo	ck is			
5	(1) sine wave	(2) square wave	(3)	triangular wa	ave(4	l) sawtooth wave
Q.69	The mantissa in a	floating point number	r is alv	vays		
	(1) greater than 1	(2) less than 1	(3)	equal to 1) equal to 0
Q.70	Generally CPU ins	struction sets do not ha	ve the	following type	of d	lata transfer instructio
	(1) register to reg		(2	register to m	emo	ry
	(3) I/O to register		(4) memory to r	nem	ory
		3				
		TO A		-		

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Q.71	In register indirect addressing mode, the	he data is present in a location whose address is in
	(1) the instruction pointer	(2) the instruction
	(3) a designated register	(4) stack pointer register
Q.72	A computer has 1 GB of main memorache with an access time of 10 ns. V 95%	bry with an access time of 100 ns and 128 KB of What is the average access time, if the hit ratio is
	(1) 12.8 ns (2) 14.5 ns	(3) 95.5 ns (4) 4.5 ns
Q.73		interrupting devices a computer system can handle
	is (1) one (2) eight	(3) thirty two (4) unlimited
0.74	DMA transfer is preferable, compared	The state of the s
Q.74	(1) the I/O device is fast and the dat	
	(2) the I/O device is slow and the da	
	(3) the I/O device is slow and the da	
	(4) the I/O device is fast and the date	
0.75	Cost per bit of memory is cheapest in	
Q.70	(1) main memory (2) magnetic disk	
0.76	Average access time of virtual memo	
Q.70	(1) less than that of cache	
	(2) greater than secondary storage	
	(3) greater than cache and less than	main memory
	(4) greater than main memory and I	
Q.77		efinitely required to execute an instruction
Q.77	(1) control unit and ALU	(2) ALU and zero or more registers
	(3) control unit	(4) control unit, ALU and registers
0.78		amount of storage for an integer variable
Q.70	(1) 4 bytes (2) 2 bytes	(3) 2 ¹⁶ bits (4) 8 bytes
Q.79		S SS SS
Q. ,,	(1) a linear data structure	at .
	(2) a non linear data structure	
	(3) neither a linear nor a non linear	data structure
	(4) an array of pointers	
0.80	Every C string is terminated by	(50)
Q.00	(1) eoln (2) eof	(3) null (4) -1
0.81		a list of N items, the number of comparisons are
Q.O.	(1) at most 2 ^N	(2) at best 1
	(3) 2 N	(4) log ₁₀ N in the worst case
	1-1	entry contact 4 Manufacture representation and the second of the second

Key

(1) 4	(2) 2	(3) 2	(4) 2
(5) 3	(6) 3	(7) 4	(8) 1
(9) 4	(10) 2	(11) 3	(12) 3,4
(13) 3	(14) 1	(15) 1	(16) 3
(17) 3	(18) 3	(19) 2	(20) 4
(21) 1	(22) 2	(23) 2	(24) 1
(25) 4	(26) 3	(27) 3	(28) 2
(29) 3	(30) 1	(31) 1	(32) 1
(33) 1	(34) 4	(35) 2	(36) 3
(37) 4	(38) 4	(39) 2	· (40) 3
(41) 1	(42) 1	(43) 3	(44) 4
(45) 4	(46) 4	(47) 2	(48) 4
(49) 4	(50) 4	(51) 1	(52) 1
(53) 3	(54) 3	(55) 4	(56) 4
(57) 2	(58) 2	(59) 4	(60) 1
(61) 3	(62) 1	(63) 2	(64) 1
(65) 2	(66) 2	(67) 2	(68) 2
(69) 2	(70) 4	(71) 3	(72) 2
(73) 4	(74) 1	(75) 2	(76) 4
(77) 3	(78) 2	(79) 1	(80) 3
(81) 2			

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