## **QUESTION PAPER - 2013**

## COMPUTER SCIENCE & ENGINEERING

Q.1	register ke	eps track of next execut	able instruction	
	(1) AR	(2) XR	(3) PC	(4) AC
Q.2	Cache memory v	works on the principle o	·	
	(1) Locality of I	Data	(2) Locality of	Reference
	(3) Locality of N	Memory	(4) Locality of	Data and memory
Q.3	Which of the foll	owing interrupts are unr	naskable	***
	(1) RST 7.5	(2) TRAP	(3) RST 5.5	(4) INTR
Q.4	The best data s		ther an arithmeti	c expression has balanced
	(1) Stack	(2) Queue	(3) Tree	(4) Graph
Q.5	The time comple	exity of the following C	function is (assum	e n > 0)
8	if (n = 1) return 1; else return (recursiv	ve(n – 1) + recursive(n – 1	) ))	
	(1) 2 <sup>n+1</sup>	(2) 2 <sup>n</sup>	(3) n <sup>2</sup>	(4) log n
Q.6	Which combinat 4 in the following		es x, y & z makes t	he variable "a" get the value
	a = ((x>y) ? (x>y))	>z) ?x:z) : ((y>z)>y:z)		
	(1) $x=3, y=4, z=$	=2 (2) $x=6,y=5,z=3$	(3) $x=6, y=3, z$	=5 (4) x=5,y=3,z=4
Q.7	traversal r	returns numbers inserted	l into a BST is asc	ending order
	(1) In order	(2) Pre order	(3) Post order	(4) Con-pre order
Q.8	The result of foll	lowing code is vo	id main ()	
	$\begin{cases} \text{int const * p =} \\ \text{printf ("%d", +} \end{cases}$	5; + (*p));}		
	(1) 5	(2) 6	(3) Compiler e	rror (4) Runtime error

		)13 <del></del>			111
Q.9		-function computes of	m, n (let n > = m)	6: T#	
	int $f(n, m) = c$		er e	ARBEITH DOOR DOIS	(d) Day
	(read o	î	$\mathcal{P}_{\mathcal{P}}}}}}}}}}$	LOPI (ECE) (ADENY ECE) TOTTOMA TUTTOM	
	if (n%m == 0			diannaram X Ro	ad,
A 10	return m;	}	1427 042420	ukhnagar. <b>Hyderab</b>	
	n = n%m;	ā 2		06962352/ <b>65352</b> 1352352/ 8143352	
28	return f(m, n);				
	(1) LCM	(2) Factors	(3) GCD	(4) Multiples	
Q.10	The worst case	time complexity of Mer	ge Sort		
Fil	(1) O(n <sup>2</sup> )	(2) $O(n \log n)$	(3) O(log n)	(4) O(n)	
Q.11	Which of the fol	lowing control structur	e tests the condition	at the end	
	(1) While	(2) Do-While	(3) For	(4) Switch	
Q.12	Which of the fol	lowing is not a dynami	c memory allocation	function	
	(1) Malloc ()	(2) Calloc ()	(3) Realloc ()	(4) Alloc ()	
Q.13	The default stor	age class of local varia	ibles is		- 9
	(1) Auto	(2) Extern	(3) Register	(4) Static	
Q.14	Round robin sch	neduling is essentially th	ne preemptive versio	on of	
	(1) FIFO		(2) Shortest jol	o first	
89	(3) Shortest ren	naining	(4) Longest tim	ne first	
Q.15	The mechanism	that bring a page into	memory only when	it is needed is called _	
	(1) Segmentation	on	(2) Fragmentat	ion	
	(3) Demand Pa	ging	(4) Page Repla	cement	
Q.16	Which of the starvation?	following disk sch	neduling techniqu	ies has a drawbacl	∢ of
	(1) SCAN	(2) SSTF	(3) FCFS	(4) LIFO	
Q.17	Virtual memory	is			
	(1) An extreme	large main memory			
	(2) An extreme	large secondary memo	ry		

(3) An illusion of extreme large main memory
(4) An extension of secondary memory
Q.18 The essential content in each entry of a page table is

(3) Both virtual page number and page frame number

Virtual page number
 Page frame number

(4) Access right information

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Q.19	Which of the following a concurrent processes?	algorithm is the solution	of critical section	problem which contains				
	(1) SJF algorithm .	(2)	lamport's bake	ry algorithm				
48	(3) Leu algorithm	(4)	Banker's algori	ithm				
0.20				nultaneously inside their				
1879	critical section is							
	(1) 1 (2)	2 (3)	16	(4) 32				
Q.21	The LRU algorithm							
340 <del>11</del> 8900-0949		at have been used recei	ntly					
1	(2) Pages out pages that have not been used recently							
		at have been least used		3				
	10 NV NV	nat used last in the giver	797					
Q.22	Thrashing can be avoid							
	(1) The pages, belong	ing to the working set o	f program, are i	n the main memory				
	(2) The sped of UI/O p	and a residence of the control of th						
	(3) The speed of CPU	is increased						
	(4) The capacity of me							
Q.23			rogram is place	d in the largest available				
Rose,	hole in the memory							
			) Large fit	(4) Worst fit				
Q.24	A table emp contains	the values 10, 20, 30,	null, null for a	column col1. What is the				
	result for following que	ery : SELECT count (co	N 200					
26	(1)* 3		) 4	(4) 2				
Q.25	Which of the following							
			) SUM ()	(4) LENGTH ()				
Q.26	In E-R diagrams relation	onship is represented wi	ith symbo	ol .				
		,	) Doubled lines					
Q.27		combines results from to						
97		Acceptable Production and the Control of the Contro	) Concatenation	n(4) Add				
Q.28	Which of the following	g is not a property of tra	ansactions?					
	(1) Atomicity (2	) Concurrency (3	) Isolation	(4) Durability				
Q.29	Find the ODD data typ	pe out	ž.	N 89				
	(1) VARCHAR2 (2	) RECORD (3	) BOOLEAN	(4) RAW				
Q.30	DROP is a state	ement in SQL		10700 X70010507				
	- 10 A) - 15 - 10 A)	1.00 Telephone (1.00 telephone	) DDL	(4) DCL				
Q.31		he number of records in						
	(1) Select COUNT (*)		2) Select * From					
	(3) Select SUM (*) Fr	om Persons (4	) Select AVG (*	From Persons				
- 33		(I)						

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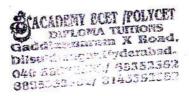
					8 8	113
	ion Paper - 2013		والمراجعة المراجعة			50
2.32	The rule that a val	ue of a foreign key	must app	ear as a valı	ue of some spec	fic table is
M 0556 × 07560	called a cor	nstraint				
	(1) Poterential	(2) Integrity	(3)	Combine		
0.33	A relation is in	normal form if ar	n attribute	of a compo	site key is depen	dent on an
	attribute of other of	composite key				e o
	(1) 3NF	(2) 2NF	(3)	BCNF	(4) INF	
2.34	PCB represents fo	r				
(37) i	(1) Process Contr	ol Block	(2)	Program Co	ntrol Block	
	(3) Process Coun	t Block	(4)	Program Co	ount Block	200
Q.35	In which of the f	ollowing memory n	nanageme	ent techniqu	ie the problem	of Internal
	fragmentation is p					
	(1) Segmentation					000
	(3) Both paging a	and segmentation				ation
0.36	Which of the follo	wing is used for mo	dulation a	and demodu	lation ?	
	(1) Modem	(2) Protocols	(3)	Gateway	(4) Multiplex	er
0.37	Which of the follo	wing TCP/IP protoco	ol is used t	or transferri	ng electronic ma	il messages
	from one machine	e to another ?				
	(1) FTP	(2) SNMP				
0.38	Which of the follo	wing device is used	to conne	ct two syster	ns, especially if	the systems
-	use different prot	ocols?			¥ 5 5	
	(1) Hub	(2) Bridge	(3)	Gateway	(4) Repeater	
Q.39	The slowest trans	mission speeds are t	those of		95 na	W
	(1) Twisted-pair		(2)	Coaxial cal	ole	
	(3) Fiber-optic ca	able	(4)	Microwaves	5	
0.40	An error - detect	ting code inserted a	(3) Combine (4) Primary if an attribute of a composite key is dependent on an  (3) BCNF (4) INF  (2) Program Control Block (4) Program Count Block (4) Program Count Block (5) Management technique the problem of Internal (6) Paging (7) (4) Neither paging nor segmentation (8) Gateway (4) Multiplexer (9) tocol is used for transferring electronic mail messages (9) SMTP (4) RPC (1) Seed to connect two systems, especially if the systems (1) Gateway (4) Repeater (2) Coaxial cable (3) Microwaves (4) Microwaves (4) Microwaves (5) Error detecting code (6) Flow control (7) Cyclic redundancy codes (8) Equalization (9) Cyclic redundancy codes (9) Equalization (1) Seed to computer? (2) The TCP address (3) The default gateway (4) The default gateway (5) Interception of the computer? (8) The default gateway (8) Interception of the computer? (9) The TCP address (1) The default gateway (1) Interception of the computer? (2) The TCP address (3) Interception of the computer? (4) The default gateway (5) Interception of the computer? (6) Interception of the computer? (7) The TCP address (8) Interception of the computer? (9) Interception of the computer? (1) The default gateway (2) Interception of the computer? (2) Interception of the computer? (3) Interception of the computer? (4) The default gateway			
	known as	<i>5</i> 2	a foreign key must appear as a value of some specific table is a lategrity (3) Combine (4) Primary mal form if an attribute of a composite key is dependent on an itle key  NF (3) BCNF (4) INF  RK (2) Program Control Block (4) Program Count Block (4) Program Count Block (5) Paging (6) Meither paging nor segmentation (7) Foreign (8) Gateway (9) Multiplexer (8) CP/IP protocol is used for transferring electronic mail messages other? (8) SMTP (9) RPC (9) Revice is used to connect two systems, especially if the systems (9) Coaxial cable (1) Microwaves (2) Coaxial cable (3) Gateway (4) Repeater (4) Microwaves (5) Mercontrol (6) Error detecting code (7) Flow control (8) Inserted as a field in a block of data to be transmitted is one (9) Cyclic redundancy codes (1) Flow control (2) Cyclic redundancy codes (3) B (4) A (4) A (4) Specifies the network address and host address of the computer? (8) The TCP address (9) The TCP address (10) The default gateway (11) Ter Bodes (12) The TCP address (13) The default gateway (14) Teres (15) Teres (16) Teres (17) Teres (18) Teres (18			
	(1) Frame check	sequence	(2)	Error detec	ting code	
	(3) Checksum	_	(4)	Flow contr	ol	
0.41		t a data link level is	achieved	by		
	(1) Bit stuffing	5-48	(2)	Cyclic redu	indancy codes	
	(3) Hamming co	des	(4)	Equalization	n	9
0.49	Which IP address	s class has few hosts	s per netw	ork?		9
	(1) D	(2) C	. (3)	В	2027	
0.49	Which of the follo	nwing specifies the r	network ac	dress and h	ost address of th	e computer
Q,TO	(1) The IP addre		(2)	The TCP a	ddress	
	(3) The subnet r		(4	The defau	lt gateway	39
0.4/			k of			
Q.44	(1) MAC Addres				TO THE STATE OF TH	
			vices			
	(2) Distribute IE	address to network	devices			
	(4) Poutos to 11	o for forwarding da	ta to its d	estination		
	(4) Routes to us	se for forwarding da	THE POSTED OF	700		

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Q.45	Which of the follo	owing can be Softwa	re?		
	(1) Routers	(2) Firewalls	(3) Gateway	(4) Modems	
Q.46	The default acces	ss specifier is	647	1000	
M 4	(1) Public	(2) Private	(3) Protected	(4) Friend	
Q.47	When a base clas	s is privately inherite	ed by a derived class	, public members of t	he base
		members of the o			
	(1) Private	(2) Public	(3) Protected	(4) Friend	
Q.48	C+ uses a unique	e keyword called	to represent an o	bject that invokes a r	nember
	function	* * * * * * * * * * * * * * * * * * *			
9	(1) This	(2) New	(3) Delete	(4) Malloc	P
Q.49			ns into <mark>a single u</mark> nit i		
	(1) Polymorphism	n (2) Abstraction	(3) Encapsula	tion (4) Inheritance	
Q.50	If class A is friend	d of class B then cla	ss B is		
	(1) Automaticall	y friend of A			
	(2) Automaticall	y friend of derived c	lass A		
	(3) Not automat	ically friend of A			
	(4) Automaticall	y friend of derived c	lass of B		
Q.51	The operator tha	t can not be overloa	ded		
	(1) ++	(2) ::	(3) ()	(4)	
Q.52	Which of the follo	wing is not construc	ction?		
1.0	(1) Friend constr	uctor	(2) Copy cons	tructor	
	(3) Parameterize	d constructor	(4) Default co		20
Q.53	The declaration of	of pure virtual functi	on is		
			(2) Virtual voi	id display = 0;	
+1	(3) Void display	() = 0;	(4) Virtual voi	id display () = $0$ ;	
Q.54		e is not supported by		and described the second	
	(1) Multilevel	(2) Single	(3) Hybrid	(4) Multiple	
Q.55	The legal access	to a class data mem	bers using this point	er	
	(1) this->x	(2) this.x	(3) *this.x	(4) *this(x)	
Q.56	The memory allo	cated in microproces	sor 8086 is		
	(1) 100 Kb	(2) 100 MB	(3) 1 MB	(4) 1 KB	
Q.57	The physical Add	ress of 8086 microp	rocessor consists of	Bits	
	(1) 4	(2) 8	(3) 16	(4) 20	8
Q.58	What is minimum	size of a logical seg	ments in 8086 of siz	e 64 Kb	
	(1) 4	(2) 8	(3) 16	(4) 20	
Q.59	CLD instruction i	s used in instr		7) 0,	
	(1) LOOP		(3) String	(4) Flag	*
Q.60			086 Microprocessor		
	(1) 4		(3) 7		

Quest	ion Paper - 2013				2 No. 2 1 No. 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A
Q.61	STD is abbreviate	ed as				
	(1) Store trap flag		(2)	Set trap flag	2	
	(3) Store detection	n flag	(4)	Set direction	flag	
Q.62	Flags present on 80	086 Micro processor are	2			
_	(1) 8	(2) 9		10.	(4) 11	
0.63	In 8086 microproce	essor, which of the follo	wing	interrupt has	the highest priority	
	(1) Over flow	(2) DIVO		NMI :	(4) Type 255	
0.64	A L E stands for	and the state of t				
3	(1) Accumulator L	atch enable	(2)	Auto latch en	able	
			Address & Da	ata latch enable		
0.65	8255 is called as					
CT - 10 CT - 1	(1) Timers	(2) D M A	(3)	PPI	(4) None	
0.66	Which of the follow	wing is not the method	of Th	nread Class?		
	(1) Start	(2) Stop		Run	(4) Sleep	
0.67	Which of the follow	wing event is generated	whe	n a scroll bar i	s manipulated?	
	(1) Action Event	With the second		Adjustment E		
	(3) Container Eve	nt .	(4)	Item Event	3 8	
0.68	50.5 (SE)	wing is not an AWT cla	ss?			28
	(1) Image	(2) Event		Cursor	(4) Applet	15
Q.69		an interface but does	not f	ully implemen	nt the methods defir	red by
	that interface, the	n that class must be de	clare	ed as		
	(1) Abstract	(2) Static	1000	Final	(4) Public	
Q.70	A sub-class can ca	all a constructor defined	l by i	ts super-class	by usingkeywo	od
	(1) Extend	(2) Final		Super	(4) This	
Q.71	Objects are passe	d by use of in JA	NVA	#17		
	(1) Call-by-name	(2) Call-by-reference	(3	) Call-by-value	e (4) Call-by-object	
Q.72	Which is the defar	ult layout manager?			<b>数</b>	
	(1) Border Layou				(4) Card Layout	
Q.73	The method	is used just before an	obje	t is destroyed	and can be called p	rior b
	garbage collection					
	(1) Final	(2) Finally			(4) Finalization	
Q.74	The is the n	nechanism by which a	call	to an overrid	den method is reso	ived a
65	runtime rather tha		10	N C1-11	ad diamatch	
	(1) Dynamic met			Static metho		
ji,9	(3) Automatic m			) Through me	mou dispatch	
Q.75		ontains Event Object cl			(4) Jaua not	
	(1) Java.lang	(2) Java.util	(3	) Java.10	(4) Java.net	

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116			ECET (Computer S	cience and Engineering)
Q.76	Which property de	termines whether a c	control is displayed to	o the user ?
	(1) Hide	(2) Show	(3) Visible	(4) Enable
Q.77	The Cancel Button	property belongs to	which object?	
	(1) Button	(2) Form	(3) Label	(4) Text Box
Q.78	Which of the follow	ving object is not an	ASP component	
	(1) File axis	(2) Ad Rotator	(3) Counter	(4) Link counter
Q.79	Which user action	will not generate a se		
12	(1) Mouse Move			(4) Mouse click
Q.80	Which of the follow	ving control structure	e is not available in '	
6	(1) If statement		(2) Nest if state	
	(3) Switch case sh		(4) If-then-else	if-statement
		ving is used to increa		2 13
	(1) Cell spacing	(2) Cell padding	(3) Row span	(4) Col span
Q.82	Which is the larges		1	
		(2) H3	(3) H4	(4) H6
Q.83	Choose odd one ta		000000000000000000000000000000000000000	
	(1) 'fable	(2) Tr	(4) Td	(4) Form
Q.84	HTML tag for text		(0)	
	(1) <scroll> <th></th><th>(2) <move>&lt;:</move></th><th></th></scroll>		(2) <move>&lt;:</move>	
	(3) < marque > <th>ADDRESS OF THE PARTY OF THE PAR</th> <th>(4) <round><!--</th--><th>round&gt;</th></round></th>	ADDRESS OF THE PARTY OF THE PAR	(4) <round><!--</th--><th>round&gt;</th></round>	round>
Q.85	HTML tag for line		20) 11 6	70) -1
	(1) * 	(2)	( )	(4) break/>
Q.86	If 73 (x-base sy x and y are:	stem) is equal to	54 (y-base system	), the possible values of
e *	(1) .8, 16	(2) 10, 12	(3) 9, 13	(4) 8, 11
0.87		ving Boolean functio		X-1 - X
ų.o.			) the function is	
			(2) Independen	
84	(3) Independent of	1) 2 (1) - 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (		on all the variables
0.88	THE SAME AND THE PROPERTY OF THE PROPERTY OF SECURIORS		two NAND gates, if	both S and R inputs are set
556	t0, then it will resu	ılt in		
	(1) $Q = 0$ , $Q' = 1$	(2) $Q=1,Q'=0$	(3) $Q = 1$ , $Q' = 1$	(4) Indeterminate states
Q.89	The minimum nun	nber of D flip-flops n	eeded to design a m	od - 258 counter is
	(1) 9	(2) 8	(3) 512	(4) 258
Q.90				eded to construct a 6-to064
		ut using any other lo		(4) 10
	(1) 7	(2) 8	(3) 9	(4) 10

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Q.91	What will be the value of $f = (x + y) (x'y)$	)?
28.46.002.00.46.0	(1) 0 (2) 1	(3) x (4) y
Q.92	What is the minimum number of 2-input N input OR gate?	AND gates used to perform the function of 2-
	(1) 2 (2) 3	(3) 4 (4) 6
Q.93	The clear and preset inputs of the JK-flip	flop are known as
	(1) Synchronous input	(2) Asynchronous input
	(3) Directed input	(4) Re-directed input
Q.94	Which of the following addressing mode time?	s are suitable for program relocation at run
	(1) Absolute addressing	(2) Direct addressing
	(3) Relative addressing	(4) Indirect addressing
Q.95	Swap space in the disk is used for	
Q.53	(1) Saving temporary html pages	(2) Saving process data
	(3) Storing the super block	(4) Storing the device drivers
Q.96	Name of the I/o scheduling algorithm the requests have been serviced and then reversely.	nat moves the head in one direction until al erse
	(1) FCFS (2) C-SCAN	(3) SCAN (4) Greedy
0.97	How many 32 K × 1 RAM chips are need	to provide a memory capacity of 256 K-bytes
Q.,,	(1) 8 (2) 32	(3) 64 (4) 128
O 08	The cylinder skew problem is concerned	with which of the following?
Q.30	(1) Semaphore (2) Thrashing	(3) Interleaving (4) Deadlock
0.99	Which of the following is a free space ma	nnagement technique
30.55	(1) Paging (2) Bitmap	(3) Segmentation (4) Demand paging
Q.10	0 MIMD stands for	6
2276	(1) Multiple instructions multiple data	(2) Multiple instructions Memory data
	(3) Memory instructions multiple data	(4) Memory instructions Memory data



(3) Memory instructions multiple data

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1	Was	
1	Key	
1	-07	- 2

. (1)	3	(2) 2	(3)	2	(4)	1
. (5)	3	(6) 1	(7)	1	(8)	3
(9)	3	(10) 2	(11)	2	(12)	4
,(13)	1	(14) 1	(15)	3	(16)	2
(17)	3	(18) 2	(19)	2,4	(20)	1
(21)	3	(22) 1	(23)	4 ,	(24)	2
(25)	3	(26) 1	(27)	1	(28)	2
(29)	2	(30) 3	(31)	1	(32)	1
(33)	1	(34) 1	(35)	2	(36)	1
(37)	3	(38) 3	(39)	1	(40)	1
(41)	2	(42) 2	(43)	1	(44)	4
(45)	2	(46) 2	(47)	1	(48)	1
(49)	3	(50) <b>3</b>	(51)	2	(52)	1
(53)	4	(54) <b>5</b> *	(55)	1	(56)	3
(57)	4	(58) 3	(59)	4	(60)	2,
(61)	4	(62) <b>2</b>	. (63)	3	(64)	3
(65)	3	(66) 2	(67)	2	(68)	4
(69)	1	(70) 3	(71)	3 .	(72)	3
(73)	3	(74) 1	(75)	2	(76)	3
(77)	2 -	(78) 4	(79)	1	(80)	3
(81)	3	(82) 1	(83)	4	(84)	3
(85)	1	(86) 4	(87)	2	(88)	4
(89)	1	(90) 2	(91)	1	(92)	2
(93)	2	. (94) 3	(95)	2	(96)	3
(97)	3 .	(98) 3	(99)	2	(100)	1

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