Q.1

## **QUESTION PAPER - 2012**

## COMPUTER SCIENCE & ENGINEERING

Which of the following is an advantage of virtual memory?

	(1) Processes can be given priority.	
1/2	(2) Programs larger than the physic	al memory size can be run.
	(3) Faster access to memory on an a	verage.
	(4) Linker can assign addresses ind physical memory.	ependent of where the program will be loaded in
Q.2	Which of the following is an advanta	ge of memory interlacing?
	(1) A large memory is obtained.	
	(2) A non-volatile memory is obtain	ed.
	(3) The cost of the memory is reduc	ed.
	(4) Effective speed of the memory is	increased.
Q.3	Which of the following devices interrupts?	should be given higher priority in assigning
	(1) Printer (2) Floppy disk	(3) Keyboard (4) Hard disk
Q.4	addressing mode pe	mits relocation without any change to the
	(1) Base register (2) Indexed regis	ter (3) Relative (4) Indirect
Q.5	Between what components of a flow of information?	Computer does an I/O processor control the
	(1) I/O devices and Cache memory	(2) I/O devices and Main memory
	(3) Two I/O devices	(4) Main memory and Cache memory
Q.6	What 'C' command which is used to	free the allocated memory ?
	(1) Dispose (2) Free	(3) Deallocate (4) Refresh
<b>Q.7</b> In	order to realize dynamic memory allo calloc and realloc, which header file	
	(1) string.h (2) stdiomemory	h (3) stdio.h (4) stdlib.h
Q.8	What does 'stderr' in C language sta	nds for ?
	(1) Standard error streams	(2) Standard error types
	(3) Standard error definitions	(4) Standard errors

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Q.9	What is the outpu	t of the following 'C'	code?						
	static char a[ char * b = "E	(   = "ECET12"; CET12"; %d", sizeof(a),	Oleddian Disubbu	NY FCET /POLYCET LOMA TURNONS MAYSEM & ROAD. 1990: Hyderabad. 1962/ 65352352 161/ 8145352352					
	sizeof(b));	26 W	<i>19</i>						
	(1) a=7 h=2	(2) a=2 h=7	(3) $a=7, b=6$	(4) a = 7 b = 8					
0.10	3004	se of rewind() function		A ST. PROPERTY CONTRACTOR					
Q.IU			AND THE STATE OF T						
1.00	<ol> <li>file pointer repositions to the starting of the file</li> <li>file pointer repositions to the end of file</li> </ol>								
	- Marie Sales and Marie an	positions to the starti							
		positions starting of t							
0.11			tree with 'n' leaves is						
	(1) n			(4) 2n - 2					
Q.12	A tree is special c	ase of a graph which	consists ofn						
91 <del>2</del> (2011)		(2) 1		(4) more than 2					
Q.13	A heap allows a v	ery efficient impleme	ntation of a	* 7 8 1					
			(3) Priority queu						
Q.14	preorder trav	ersal would return wh	at?	BJIHGA; then the					
			(3) ABCDEFHG						
Q.15	Which data stru only one end		on at both ends of	the list but insertion at					
	(1) Input-restricte	d dequeue	(2) Output-restricted dequeue						
	(3) Priority queue	23	(4) Circular que	ie					
Q.16		ot present in the TCP/							
		(2) Session		(4) Application					
Q.17	is the Pr model.	otocol Data Unit (PD	U) used at the netwo	rk layer of the OSI					
	(1) Segment	(2) Frame	(3) Packet	(4) Bits					
Q.18	Which layer in the	OSI reference mode	takes the responsibili	ty of flow control?					
	(1) Application la	iyer	(2) Transport lay						
8 *	(3) Network layer	T.	(4) Session laye	<b>1</b> 00 mg					
	5:								

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Q.19	for	are the deforwarding the p	evices that operate at ackets over WAN.	the r	etwork layer	of the OSI mode	
		Hubs	(2) Bridges	(3)	Switches	(4) Routers	
Q.20		at does SMTP st	tand for ?			100	
12			age transfer protocol				
			transfer protocol		i i		
	(feline)	Simple mail tra					
			e transfer protocol		100		
0.21			the IP address given i	in the	binary repres	sentation below :	
			0.00011100.11111100				
	(1)		(2) B		C	(4) D	
Q.22	Wh	ich of the follow	ing statement is typic	ally F	ALSE about E	Ethernets?	
1000			ircuit switching to sen				
			sed in providing physi				
			cols use a collision-de			ensure that mes	sages are
	tra	nsmitted properly	у .	23			65
			ected by Ethernets are				
Q.23		acts as sec ernal networks.	curity buffer between a	a con	npany's privat	e network and a	1
	(1)	Firewall	G I	(2)	Password		
	(3)	Disaster recove	ry plan	(4)	Virus checke	r	
Q.24		ow many bytes at d Network IDs?	re used by the Class 'B	IP a	ddresses to re	present the Hos	t .
25. 3		1,3	(2) 2,3	(3)	2,2	(4) 3.1	10
Q.25		protocol is	used for remote login	purp	ose.		
C and the second		Telnet	(2) HTTP		FTP	(4) SMTP	
Q.26	W	hat is meant by a	Process				
	(1)	A program writ	tten in high level langu	iage	and stored on	the disk	
	(2)	A program in e	xecution		·		
			the secondary memor	ry			
	(4)	A job available	in the main memory	7 14	150		
Q.27			a cannot boot if the		is not availa	ble on it	
	(1)	Loader	(2) Linker	(3	) Interpreter	(4) Operating	System
Q.28	W	hat is the use of	Job Control Language	e (JC	L) statements	?	
		Allocate the C		8	23		
			t from one device to a	nothe	r device		
	(3)	Inform the OS	, the start and end of	a jol	in a batch		
		) For managing					
	255				G5 E6		- 27

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Q.29	Which, strategy temporarily suspend	allows the processed?	ses	that are I	ogica	lly runnable	to be		
	(1) Shortest Job Fir	- 100 EU	(2)	First come	First s	erved .			
	(3) Non-preemptive	scheduling		Round Rob					
Q.30		ecutes the shortest jol	b firs	st that has e	ntered	the queue of			
	jobs.					and the state of t			
	(1) FIFO	(2) SJF	(3)	Round Rob	in (4)	LIFO			
Q.31	Fragmentation of the	e file system can be te							
	(1) Thrashing	N 2	(2)	CPU sched	uling				
	(3) Compaction	8	(4)	I/O devices	sched	luling			
Q.32	What is a page fault	?							
	(1) An error that occurs while a program accesses a page in the memory								
	(2) An access to a page that is currently not available in the memory								
		page of another progr							
(8)	(4) An error which i								
Q.33	Belady's Anomaly is	마스 (TO) ( - 1시간 ( TO)	pa	ge replacem	ent ale	gorithm.			
	. (1999) 1990 - 1990 - 1990	(2) LRU		Circular FII					
Q.34	What is the special s	oftware used to create							
	(1) Device driver			Linker	(4)	Loader			
Q.35	Which of the following								
	(1) Floppy Disk	- 15		Cache men					
	(3) Association Mem	nory		Main memo	100	3			
Q.36			35-53						
	(1) Fields	(2) Records	(3)	Tables	(4)	Packages	225		
Q.37	The best way to class	sify the data models is	by	the degree o					
		(2) abstraction		knowledge		unification			
Q.38		e is not efficient when			10.5	2	7		
36	(1) security			large amou	nts of	data			
	(3) large number of	transactions		1:M relation					
Q.39	Which of the following	ng is a Date function i							
	(1) SYSDATE			SYS DATE					
	(3) SYSTEM DATE	16		CURRENT					
Q.40	What needs to be	created if Kishan i					le and		
	wants to find out how	v many employees are	e wo	rking in Indi	a ?				
	(1) Create a new tab			Create a ne		ry			
	(3) Create a new for	m	(4)	Utilize the o	lataba	se wizard			
Q.41	A normal form which design is	is sufficient for the co					i :		
	Samuel Carlos and the	2) 5NF	(3)	4NF	(4)	3NF			

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Q.42	Which of the following type of JOIN is no	t used in SQL?							
	(1) Inner join (2) Outer join	(3) Equi-join	(4) Non Equi-join						
Q.43	Abbreviate SQL :		10						
	(1) Systematic Query Language	(2) Structured Q	uery Language						
	(3) Structural Query Language	(4) Simple Quer							
Q.44	What is the command used in SQL to rem	ove row(s) from a	given table ?						
	(1) DELETE (2) DROP	(3) ERASE	(4) REMOVE						
Q.45	Where is the 'HAVING' clause of SQL used	for querying?							
	(1) Used for rows rather than columns		ımns rather than rows						
	(3) Used for groups rather than rows	(4) Used for row	s rather than groups						
Q.46	If duplicate rows are to be avoided								
	statement, what qualifier should be used								
	(1) DEFINITE (2) DISTINCT	(3) DISJOINT	(4) UNIQUE						
Q.47	Select one equivalent SQL statement for the	he given query:							
	SELECT EMP_NAME FROM EMPLOYEE WHERE PLACE = 'HYD';								
	(1) SELECT EMP_NAME FROM EMPLOY	YEE WHERE PLAC	CE IN ('HYD');						
	(2) SELECT EMP NAME IN EMPLOYEE	WHERE PLACE II	N ('HYD');						
	(3) SELECT EMP_NAME IN EMPLOYEE								
	(4) SELECT EMP_NAME IN EMPLOYEE	WHERE PLACE :	= 'HYD');						
Q.48	In SQL what command is used to get sorte	ed output of a give	en query ?						
	(1) GROUPBY (2) ORDERBY	(3) SORTBY	(4) ARRANGEBY						
Q.49	Multi-valued dependencies should	be eliminated.							
	(1) Never (2) Rarely	(3) Always	(4) Frequently						
Q.50	DROP statement in SQL belongs to which								
	(1) DML statement (2) DDL statement		nt(4) TCL statement						
Q.51	storage class is not supported by C	++ compiler.							
	(1) Dynamic (2) Register	(3) Auto	(4) Mutable						
Q.52	feature is not at all supported by	the $C++$ compile	er.						
	(1) Operate overloading	(2) Exception ha	ndling						
	(3) Reflection	(4) Namespaces							
Q.53	keyword supports dynamic metho	od resolution in C+	++,						
	(1) Abstract (2) Virtual	(3) Dynamic							
Q.54	Which of the following should be used to a	ccess an array ele	ment in C++?						
	(1) Dot operator	(2) Member nam	e						
	(3) An index number	(4) Function nam	ne						
Q.55	What is meant by operator overloading in	C++?							
	(1) It is creating new operations		49						
	(2) It is creating new functions								
	(3) It is giving new meanings to existing C	++ operators							
	(4) It is loading multiple operators into a g	iven function							
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0.56 What is meant by C++ pure virtual function?
        (1) A function which has no body
        (2) A function which returns no value
        (3) A function which is never used in a base class.
        (4) A function which is difficult to explain
0.57 In C++ what does redirection perform.
      · (1) It redirects a file from a device to a stream
        (2) It redirects a stream from a file to a console
        (3) It redirects a device from the screen to a file
        (4) It redirects the screen from, a device to a stream
 Q.58 To which class of stream does 'cout' object in C++ belong to?
                                                                   (4) ifstream
        (1) stringstream (2) istream
                                                 (3) ostream
 0.59 Which of the following is used by an object to refer to itself
                                                                   (4) own
                           (2) itself
                                                 (3) self
        (1) this
 Q.60 In C++ when no access specifier is explicitly mentioned for the base class
        is the default inheritance type
                                                 (3) Internal
                                                                   (4) Protector
        (1) Public
                           (2) Private
 Q.61 In C++, name mangling is used to support the feature called
                                                 (3) Data Hiding (4) Abstraction
        (1) Overloading
                         (2) Overriding
 Q.62 Which of the following operators in C++ cannot be overloaded?
        (1) Assignment
                                                 (2) Equality
                                                 (4) Arrow
        (3) Scope resolution
         cannot be declared as a template in C++.
 Q.63
        (1) Classes
                                                 (2) Member functions
        (3) Global functions
                                                 (4) Macros
 Q.64 Which of the following Inheritance mechanism is not supported in Java
                                               (3) Multilevel
                                                                   (4) All the above
        (1) Single level (2) Multiple level
 Q.65 If class X is friend of class Y and if class Y is friend of class Z, which of the
        following is correct?
        (1) Class X is friend of Class Z
        (2) Class Z is friend of Class X
        (3) Class X and Class Z do not have any friend relationships
        (4) Class Y is a mutual friend to Class X and Class Y
 Q.66 What is the output of the following given Java code:
        public class Ecet {
        public static void main (string[] args) {
        newEcet().go("hello", 1);
        newEcet(),go("hello",world", 2);
```

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	public void go	o (string y, int x) {			94						
	System.out.pr	rint(y[y.length-1]+"");									
	}}										
	(1) h he	(2) hello world	(3) wa	orld world	(4) comp	ilation fails					
Q.67	Which one of	the following statements is	TRUE?	X		22					
3	(1) At once,	more than two threads may	possibly	end up in	deadlock.						
	(2) The JVM deadlock	implementation guarantee ed state,	es that n	nultiple thi	reads cann	ot enter int	0 8				
	(3) Deadlock	ed threads release once thei	ir sleep()	method's s	leep duration	on has expir	red				
	(4) Deadlock used inco	sing can occur only when the crectly.	ie wait(),	notify() ar	nd notifyAll	() methods	are				
Q.68	Fill up the blank with one of the following statements for the given Java code which allows Ecet class to compile :										
	class Navigat	ion {					100				
	public enum l	Direction {North, South, Ea	ast, West	}							
	public class E	icet{					-				
	}										
	(1) Direction	d = North;									
	(2) Navigation	on.Direction $d = Navigation$	.Direction	n.North;							
2	(3) Direction	d = Direction.North;									
	(4) Navigation	on Direction d = North;									
Q.69	What is the o	utput of the given Java cod	le below	?							
	interface Test	tA { String to String();}			mere: ELSON	POLYCET	Ž				
	public class Test {			MACAU	The state of the s	THE PERSON NAMED IN					
	public static	void main (String[] args) {	48 g	Gardin	ALCOHOL CLASS	K Kozo.	•				
	System.out.p	rintln(newTestA() {			m / 5 / 6 / 10	STATE HEALTH HAT					
	System.out.println(newTestA() {     public String to String() {return "test";}						2				
	<b>})</b> ;	· · · · · · · · · · · · · · · · · · ·	8 8	و مه این این این این							
	}						a				
U	}	=19			6						
15	(1) test										
	(2) null										
	(3) An excep	otion is thrown at runtime									
28		tion fails because of an erro		A Company of the Comp		an 11 33					
Q.70		ollowing Java code, variable name	са	n directly	access ar	id change	th				

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Q.92			h are used for the		55		22		
	(1)	BP & SI	(2) BP & DI	(3)	BX & SI	(4)	BX/BP 8	z SI/DI	
Q.93	Wh	ich of the follo	wing instruction is	used for u	nconditiona	ljump	?		
	(1)	JMP :	(2) JUMP	(3)	JZ	(4)	GO		
Q.94	Hor		nentation of the cor	ntrol section	on of Intel 80	)86 mi	croproce	ssor	
3:	(1)	Using micropr	ogramming					H	EH.
	(2)	Using nanopro	gramming						
			ation of Micro-prog	ramming	and Hard-wi	ired de	signs		
	(4)	Using hard-wi	red control in a ran	dom man	ner				
Q.95	Ho	w many condit	ional flags are avai	lable in 81	0486?				
850	(1)	6	(2) 8	(3)	10	(4)	16	94 T - 12	
Q.96	Wh	at address inst	ructions are used b	y a Stack	? • .		9		
	(1)	Zero	(2) One	(3)	Two	(4)	Three		
Q.97		nich is the activation?	ddressing mode	where th	n <b>e o</b> perano	l is sp	pecified	within	-the
	(1)	Direct	(2) Indirect	(3)	Immediate	(4)	Register		
Q.98	ED	RAM indicates	*						
	(1)	Extended DRA	AM	(2)	Enhanced I	DRAM			
	(3)	Electronic DR	AM	(4)	Electrical D	RAM			20
Q.99	Wh	ich of the follo	wing matches bette	er with DN	1A I/O ?				
1 1 2	(1)	High Speed R	AM	(2)	Printer				
= 5	(3)	ALU	th.	(4)	Disk	\$559 51	0.094		
Q.100	) Wh	nich of the follo	wing is not a form	of memor	ry?	110			
# 19	(1)	Translation lo	okaside buffer	(2)	Instruction	opcod	e		
	(3)	Instruction ca	che	(4)	Instruction	registe	r .		
									5.15

## Key

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