## QUESTION PAPER - 2016 (A.P)

## COMPUTER SCIENCE & ENGINEERING

Q.1	In time sharing operating system, when the time slot given to a completed, the process goes from RUNNING state to state	process is
	(1) BLOCKED (2) SUSPENDED (3) TERMINATED (4) READY	
Q.2		
۷	(1) page with corrupted data	
	(2) wrong page in the memory	
	<ul><li>(3) page that is modified after being loaded into cache memory</li><li>(4) page that is less frequently accessed</li></ul>	
Q.3		
Ų.J	(1) FOEC (0) O.E. (2)	nay occur
Q.4	(c) realization (1) priority	
Ų.4	/1\ 101:	ıld have
0.5	(1) 13 bits (2) 14 bits (3) 15 bits (4) 16 bits	
Q.5		
	(1) reduces page I/O	
	(2) decreases the degree of multiprogramming	
	(3) implies excessive performance	
	(4) improves the system performance	
<b>Q.6</b>	Windows 98 operating system is a	
	(1) single user system (2) multi user system	
	(3) single tasking system (4) multi tasking system	
Q.7	In semaphore when the order of processes they are waiting to be removed queue is first in first out (FIFO) then it is called semaphore	d from the
	(1) weak (2) strong (3) binary (4) counted	The state of the s
<b>Q.8</b>	Which of the following is a service not supported by the operating system	
	(1) protection (2) memory protection (3) compilation (4) I/O operat	ion co
Q.9	The method of mapping the consecutive memory blocks to the consecutive ca	
	is called mapping	
der i su	(1) indirect (2) direct (3) associative (4) set associative	itive
Q.10	$oldsymbol{0}$ An attribute of one table matching the primary key of another table is called	l as
	(1) foreign key (2) secondary key (3) candidate key (4) composite	
Q.11	1 The maximum marks in a subject should not be greater than 100. This is	
	(1) refrential constraint (2) feasible constraint	
	(3) integrity constraint (4) over-defined constraint	

Q.12	The SQL statement SELECT SUBSTR ('123456789', INSTR('abcabcabc','b',4) FROM DUAL;
	prints
	(1) 6789 (2) 2345 (3) 1234 (4) 456789
	In SQL, 10/NULL will evaluate to
Q.120	(1) FALSE (2) –1 (3) NULL (4) 10
0.14	Which normal form is considered adequate for relational database design
	(1) 4NF (2) BCNF (3) 2NF (4) 3NF
Q.15	The column of a table is referred to as the
	(1) tuple (2) attribute (3) entity (4) degree
Q.16	The data flow model of an application mainly shows
	(1) communication network structure
	(2) the underlying data and the relationship among them
	(3) processing requirements and the flow of data
	(4) decision and control information
Q.17	Student and courses enrolled, is an example of
475	(1) many - to - one relationship (2) one - to - one relationship
	(3) one - to - many relationship (4) many - to - many relationship
Q.18	E-R modeling technique is a
	(1) right - left approach (2) left - right approach
	(3) bottom - up approach (4) top - down approach
Q.19	A trigger is
	(1) a statement that enables to start any DBMS
	(2) a statement that is executed automatically by the user as a side effect of a modification to the database
	(3) a statement that is executed automatically by the system as a side effect of a modification to the database
	(4) a condition the system tests for the validity database user
Q.20	Reusability is a desirable feature of a language as it
	(1) decreases the testing time (2) increases the testing time
	(3) reduces the compilation time (4) reduces the execution time
Q.21	A constructor is called whenever
- Abold	(1) an object is used
	(3) a class is declared (4) a class is used
Q.22	Which of the following remarks about the differences between constructors and destructors
	Q.10 An arrabute of one table matching the primary key of another table toerros era
	(1) constructors can take arguments but destructors can not
	(2) constructors and destructors can be used copy the information
	(3) destructors can take arguments but constructors can not
	(4) destructors can be overloaded but constructors can not be overloaded

Ques	stion Paper-2016	81
Q.23	/1) Å	
0.04		6 23 (4) && 5 2 mi (1)
Q.24	Choose the best answer:	(3) constructors
	A function that does the same operation on difference	ent data types is to be implemented by
		(2) tring
	(1) macros (2) famatica to 1 to (2) o	verloading
0.05	(3) function template (4) d	efault arguments
Q.25	In C++, dynamic memory allocations is accoplis	shed with the operator
0.96		nalloc() (4) calloc()
Q.20	The break statement causes an exit	ampières au moderne (C)
		nly from the innermost switch only
0.07		or inner most loop or switch
Q.Z1	The process of building new classes from existing	
0.00		heritance (4) cascading
Ų.28	In C++ runtime polymorphism is achieved by	
0.00		nline function (4) function overloading
Q.29	(1)	
0.00		(1) hyper tim(4) instation pro(
Q.30	Consider the following code	(3) high text type performance
	string state = new string("andhra");	Q.41 Which of the following is platf
	system.out.print1n(state.length());	(1) JAVA (2) COBO
	What is printed	O.42 Mechanism to protect private
O 01	Diff. [Tax Affice [1]]   In the second for the contract of the	Q.42 Mechanism to protect private and (4) andhra (1) diqual
Q.31	What is the difference between java applet and ja	ava application
	(1) an application can in general be trusted when	
	(2) an applet must be executed in a browser envi	ironment
	(3) an applet is not able to access the files of the	e computer it runs on
0.20	(4) all the above	IUCAA AP.JJ
Q.32	What is byte code in the context of java	
	(1) the type of code generated by a java complie	
	(2) the type of code generated by a java virtual n	nachine in aphicannas for graphicanican
	(3) it is another name for java a source file	(4) both 1 and 2
<b>~</b> ~ ~ ~	(4) it is the code written within the instance meth	ods of a class
Q.33	You read the following statement in a java progra	m that compiles and executes
	submarine.dive(depth);	(3) interior development envir
	(1) depin must be an int	Q.46 UEU stands for
	(2) dive must be a method	
	(3) dive must be the name of an instance field	rois sol somes michael (2)
	(4) submarine must be the name of a class	

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Q.34	Which of the following may be part of a	class definition
	(1) instance variables	(2) instance methods
	(3) constructors	(4) all the above a second AS O
Q.35	Which of the following is not a primative	data-type
	(1) boolean (2) tring	(3) byte (4) double
Q.36	The statement system.out.print1n (double	e)7/4);prints
	(1) 1.75 (2) 1	(3) 1.0 (4) 2.0
Q.37	Exception that are expected to possibly o	occur are called:
	(1) checked exceptions	(2) unchecked exceptions
	(3) runtime exceptions	(4) errors
Q.38	Garbage collector frees the programmer f	
	(1) memory leaks	(2) dangling references
	(3) creating new objects	(4) recursion
Q.39	Elements of the array have the same	Q.28 Int ' - tuntimie polymorphism is achi
	(1) index (2) scope	(3) datatype (4) bound
Q.40	HTTP stands for	Q.29 The operator that cumot be overload
	(1) hyper text translation procedure	(2) hyper text translation procedure
	(3) high text type performance	(4) hyper text transfer protocal
Q.41	Which of the following is platform free la	nguage
	(1) JAVA (2) COBOL	(3) C (4) FORTRAN
Q.42	Mechanism to protect private networks fr	rom outside at track is
	(1) anti virus (2) digital signature	(3) firewall (4) formatting
Q.43	The internet is	
	(1) network of networks	(2) web site
	(3) host	(4) server
Q.44	A GUI:	evoda entilla (4)
	(1) uses buttons, menus and icons	Q.32 What is byte code in the context of jav
	(2) should be easy for a user to manipul	ate ud boimenes ebro lu em il edi illi
	(3) stands for graphic use interaction	(4) the tripe ode generated by a ra
	(4) both 1 and 2	difficies amulher manne for jaya a source
Q.45	What does IDE stands for	ent oft nithiw nother above attential the
	(1) integrated design environment	(2) integrated development environment
	(3) interior development environment	(4) interior design environment
Q.46	URL stands for	
	(1) uniform reservation locator	(2) uniform resource logic
	(3) uniform resource locator	(4) both 1 and 2

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Q.47	7 ASP.NET separates the HTML output from program logic	using a feature named as
	(1) exception (2) code - behind (3) code - fro	• • • • • • • • • • • • • • • • • • • •
Q.48	18 Find the odd one from the following tag of HTML	(1) Carry flag
	(1) table (2) tr (3) td	(4) form
Q.49	19 The first page of website is called	(1) 4 194.304 locati
	(1) design page (2) home page (3) first page	(4) main page
Q.50	Which of the following logic families has the shortest prop	ogation delay
	(1) CMOS (2) BiCMOS (3) ECL	(4) 74SXX
Q.51	1 Which is the range of invalid TTL output voltage	(3) CMP (compare)
	(1) 0.0-0.4V (2) 0.4-2.4V (3) 2.4-5.0V	(4) 0.0-5.0V
Q.52	2 The logic gate that will have a LOW output when any on	e of its inputs is HIGH is the
	(1) NAND gate (2) AND gate (3) OR gate	(4) NOR gate
Q.53	3 When reading a boolean expression, what does the word	"NOT' indicate
	(1) inversion (2) high (3) low	(4) the same as
Q.54	4 What is the binary equivalent of the decimal number 368	(2) property of localit
	(1) 101110000 (2) 110110000 (3) 11101000	0 (4) 111100000
Q.55	55 How many flip-flops are required for mod-16 counter	(4) seeklime
sa nw	(2) 6 m of the (3) 3 and (4)	Indi(4) (4) of georg A Po.C
Q.56	<b>16</b> The boolean expression $\overline{A} \cdot B + A \cdot \overline{B} + AB$ is equivalent to	(I)mamumon_code(2
	(1) $\overline{A} \cdot B$ (2) $\overline{A + B}$ (3) $A \cdot B$	(4) A + B
Q.57		
•		ional circuits
		2.71 BSA instruction arstra
Q.58		
		-anute bas dama (1)
Q.59	(1) stack (2) accumulator (3) flags	
_		(4) counter
•		(4) counter ta transfer
Ingnar	Which method by passess the CPU for certain types of da (1) DMA (2) polled I/O	(4) counter ta transfer
Q.60	Which method by passess the CPU for certain types of da (1) DMA (2) polled I/O (3) interrupt driven I/O (4) software i	ta transfer
Q.60	Which method by passess the CPU for certain types of da (1) DMA (2) polled I/O (3) interrupt driven I/O (4) software i	ta transfer
Q.60 Q.61	Which method by passess the CPU for certain types of da (1) DMA (2) polled I/O (3) interrupt driven I/O (4) software i A 20-bit address bus allows access to a memory of capaci (1) 2 MB (2) 1 MB (3) 8 MB	(4) counter (4) ta transfer (5) (6) (7) (7) (7) (8) (7) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8
	Which method by passess the CPU for certain types of day  (1) DMA (2) polled I/O (3) interrupt driven I/O (4) software in the following is not an 8086 general purpose regard (1) stack segment (2) data segment	ta transfer  nterrupts  ity  (4) 4 MB  gister  nent
	Which method by passess the CPU for certain types of day  (1) DMA (2) polled I/O (3) interrupt driven I/O (4) software in the following is not an 8086 general purpose regard (1) stack segment (2) data segment	ta transfer  nterrupts  ity  (4) 4 MB  gister  nent
Q.61	Which method by passess the CPU for certain types of day (1) DMA (2) polled I/O (3) interrupt driven I/O (4) software in the color of the following is not an 8086 general purpose results of the foll	(4) counter (4) ta transfer (5) (6) the results (6) (7) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9
Q.61	Which method by passess the CPU for certain types of day  (1) DMA (2) polled I/O (3) interrupt driven I/O (4) software in the following is not an 8086 general purpose regard (1) stack segment (2) data segment	nta transfer  nterrupts  ity  (4) 4 MB  gister  nent
Q.61	Which method by passess the CPU for certain types of day (1) DMA (2) polled I/O (3) interrupt driven I/O (4) software in the s	ta transfer  nterrupts  ity  (4) 4 MB  gister  nent  hent  (4) ROM  (5)  (6)

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Q.64		ne specified condition exists or not by testing
	the I dod (1) most - about (5)	anulad - abob (2) code - belum
	(1) carry flag (2) common flag	(3) sign flag (4) conditional flag
Q.65	A 20-bit address bus can locate	rt (S) tr
	(1) 4, 194,304 locations	(2) 1, 048,576 locations
	(3) 2, 097,152 locations	(4) 8, 388, 608 locations
Q.66	Which one is not an arithmetic instruction	Q.50 Which of the following logic families
	(1) ROL (rotate left)	(2) DEC (decrement)
	(3) CMP (compare)	(4) INC (increment)
Q.67	The instruction MOV AL, 65 is to store	(1) 0.0-0.4V (2) 0.4-2.4V
is the:	(1) store 0100 0010 in AL	(2) store 40H in AL
	(3) store 0100 001 in AL	(4) store 42H in AL
Q.68	The idea of soll and the second secon	Q.53 When reading a boolean expression.
	(1) houristic 90 10 mile	(1) inversion (2) high
		Q.54 What is the binary equivalent of the
	(3) the fact that references generally tend	to cluster
	(1)	
Q.69	131111/02 J T - DOUT	perform a specific operation is known as
		periorii a specific operation is known as
	(1) instruction code(2) accumulator	(3) register (4) micro-operation
Q.70	BSA instruction is a	
	(1) branch and store accumulator	(2) branch and shift address
	(3) branch and save return address	(4) branch and show accumulator
Q.71	BSA instruction is a	
	(1) branch and store accumulator	(3) Shift registers
	(3) branch and save return address	(2) branch and shift address
Q.72		(4) branch and show accumulator
Q.711		f data will be called as
O 73	The state of the s	
Q.73	storage	emory makes it not possible for permanent
	Kancata in Annual Pu	Q.60 A 20 hr address bus allows access t
0.74		(3) unreliable (4) it is a volatile
<b>W.7</b> T	The expression $A*B + C*D$ can be represe	nted in reverse polish notation as
0.75	(1) A*BCD*+ (2) AB*CD*+	(3) $A*B*CD+$ (4) $AB*CD+*$
Q.75	In implict addressing mode, the operands	are stored in
	(1) registers	(2) accumulators
0 = 1	(3) push down stack	(4) cache
Q.76		Q.63 pin is used to select direct of
	(1) MIMD (2) SIMD	(3) SISD (4) MISD (4)

results in (1) printing of garbage number
(2) an execution error
(3) printing of starting address of the function main
(4) an infinite loop

Consider the following program:

main()
{

cost int i = 10;

int j = 10;

i = i + j;(%d",i);
}

Results in

00		EC	ET (	Computer Sci	ience and Engine	ering)		
	(1) printing of 20		(2)	returns compil	ation error	0.77		
	(3) returns execution	n error	(4)	prints garbage	value			
Q.85	By default the data	members of a structure			(3) magnetic mer			
ni ser	(1) public and to as	(2) private	(3)	private-public	(4) protected	97.0		
	The format identifie	er "%i" is also used for		data type	ascending order			
	(1) char	(2) int	(3)	float	(4) double	050		
Q.87	Which operators ret	turns the number of byt	es o	ccupied by par	ticular data type	61.30		
•	(1) arithmetic opera	tor greddy a th	(2)	relational oper	rator			
		implementing the quick				08.0		
Q.88		nce between 001111 ar			tea (I)			
.qoq	(1) <b>3</b> 09 (2) deug (1)	(2).4q.qoq.(2)dsug.(	(3)	12 anollarego	(4) 1 sugue ont 1	18.0		
Q.89	Bit stuffing refers to	ck, the sequence of por		performed on a	push(2), pop are			
	(1) inserting a '0' ir	n user data stream to di	iffer	entiate it with a	a flag	00 A		
	(2) appending a nil	oble to the flag sequenc	ce		consider the follow	J.C.J.		
	(3) inserting a '0' in flag stream to avoid ambiguity							
	(4) appending a nil	bble to the user data st	rean	n	results in			
Q.90		gy which supports bi	J. O.H	directional lin	ks between each po	ossible		
	nod is	/O\ -4	(0)		The following pro	0.83		
0.01	(1) ring	(2) star		tree	(4) mesh			
Q.91		ing uses UDP as the tra	7	. <del>-</del>	(A) I ITTT			
O 02	(1) SMTP	(2) DNS	50 .550	telnet	, , , , , , , , , , , , , , , , , , , ,	•1		
Q.92		ing transport layer prot				.11		
O 03	(1) IP	(2) SMTP	` ,	TCP	(4) UDPri siluser	1		
Q.93	(1) $2^{14}$	ng format, the number (2) 2 <sup>7</sup>			(4) 2 <sup>24</sup>	iress is		
0.04		ectivity is provided from	` '		, ,			
Q.74	(1) the network laye		(2)	the transport l	ool stiming (4) ayer			
	(3) the session laye					48.0		
O 05		re serial communication	(4) the physical layer					
Q.93	(1) synchronization							
				error detection		•		
O 06	(3) error correction  Manchester code us		( <del>'1</del> )		the communication	1		
<b>Q.70</b>			(2)					
	(1) bipolar encodin	•		polar encoding				
	(3) return to zero er	icoung	(4)	unipolar codin	3			

<b>Q.97</b>	Baud means	S						
	(1) the rate	at which the	data is transfer	red				
	(2) the num	nber of bits tra	ansmitted per u	nit time				
	(3) the num	ber of bytes t	ransmitted per	unit time		<i>f</i>	5	(8)
	(4) the rate	at which the	signal changes	2		•	1	10)
.98	Page fault o	ccurs due to t	he following		(14)		j.	(81)
	(1) the page	is in main me	emory		(81)		\$	(FII)
	(2) the page	is not in mair	nmemory	ì	(22)		2	
	(3) one tries	to divide a nu	ımber by 0	D.	(26)			185
	(4) the page	is corrupted b	y application s	oftware	MIFE			
		ess time for th	ne memory				- 0	112
	(1) 21 ns	(2) 23	ns	(3) 30	ns	(4) 35 n	is 🔪	(13-)
.100	0 An operating	g system conta	ns ins 3 user proc ired units of R	esses each	requirir	ng 2 units of	reso	
.100	0 An operating	g system conta	ins 3 user proc	esses each	requirir	ng 2 units of	reso	
	O An operating minimum nu	system containmber of required (2) 3	ins 3 user proceired units of R	esses each such that r	requirir no deadl	ng 2 units of lock will eve	reso	ur is
	O An operating minimum nu (1) 4	system containmber of requirements (2) 3	ins 3 user proceired units of R	esses each such that r	requirir no deadl	ng 2 units of lock will eve	reso	ur is
	O An operating minimum number (1) 4	system containmber of requirements (2) 3	ins 3 user proceired units of R	esses each such that r	requirir no deadl	ng 2 units of lock will eve	reso	ur is
	O An operating minimum number (1) 4	system containmber of requirements (2) 3	ins 3 user proceired units of R	esses each such that r	requirir no deadl	ng 2 units of lock will eve	resor	(6d)
	O An operating minimum number (1) 4	system containmer of require (2) 3	ins 3 user proceired units of R	esses each such that r	requirir no deadl	ng 2 units of lock will eve	resor	(68) (68) (68)
	O An operating minimum number of the control of the	system containmer of require (2) 3	ins 3 user proceired units of R	esses each such that r	requirir no deadl	ng 2 units of lock will eve	resor	(63) (63) (63)
	O An operating minimum number (1) 4 (40)  (40)  (80)  (80)  (80)	system containmer of requirements (2) 3	ins 3 user proceired units of R	esses each such that r	requirir no deadl	ng 2 units of lock will eve	resor	(65) (63) (63) (63) (73)
	O An operating minimum number (1) 4 (4-6) (8-6) (8-6) (8-7)	system containmer of require (2) 3	ins 3 user proceired units of R	esses each such that r	requirir no deadl	ng 2 units of lock will eve	resor	(65) (73) (73) (73)
	O An operating minimum number (1), 4  (4-6)  (8-6)  (8-7)  (08)	system containmer of require (2) 3	ins 3 user processived units of R	esses each such that r	requirir no dead!	ng 2 units of lock will eve	resor	(53) (65) (66) (73) (73) (73) (73)
	O An operating minimum number (1), 4 (20)  (40)  (40)  (80)  (80)  (80)  (80)  (80)	system containmer of require (2) 3	ins 3 user proceired units of R	esses each such that r	requirir no dead!	ng 2 units of lock will eve	resor	(88) (88) (88) (88) (88)

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