EKT Model Question Paper (Computer Science)-II

Instructions for Candidates

Time Allotted: 45 Minutes

1. 2. 3. 4.	One No m	No. of Quest mark will be o ark will be de ot write or ma	leducte ducted	d for e for un	very wr -attemp	ong an	swer. estions					
Q1.	If a pl	If a plane is parallel to the plane of projection										
	(a)	true size			(b)	as a line or edge						
	(c)	foreshortene	ed		(d)	as an	obliqu	e surfac	е			
Q2.	How	How is a J-K Flip Flop made to toggle										
	(a)	J=0, K=0	(b)	J=1,	K=0	(c)	J=0,	K=1	(d)	J=1, K=1		
Q3.	No. o	f flip-flops use	d in dec	ade co	unter							
	(a)	3	(b)	2		(c)	4		(d)	None of these		
Q4.	The c	The decimal equivalent of the hexadecimal number E5 is										
	(a)	279	(b)	229		(c)	427		(d)	3000		
Q5.	Which part of the computer is used for calculating and comparing?											
	(a)	Disk unit	(b)	Cont	rol unit	(c)	ALU		(d)	Modem		
Q6.	Difference between Decision-Tables and Decision Tree is (are):											
	(a)	value to end user										
	(b)	form of representation										
	(c)	one shows the logic while other shows the process										
	(d)	all of the abo	ove									
Q7.	The r	The reservation system of Indian railways is an example of										
	(a)	transaction processing system										
	(b)	interactive decision support system										
	(c)	management controls system										
	(d)	expert syste	m									
Q8.	The network layer, in reference to the OSI model, provide											
	(a)	(a) data link procedures that provide for the exchange of data via frames that can be sent and received										
	(b)	the interface between the X.25 network and packet mode device										
	(c)	the virtual circuit interface to packet-switched service										
	(d)	all of the abo	ove									
Q9.	Whic	h of the followi	ng is an	import	ant chai	racterist	ic of LA	AN?				
	(a)	(a) application independent interfaces										
	(b)	unlimited expansion										

low cost access for low bandwidth channels

parallel transmission

(c) (d)

					2							
Q10.		of the followine machine to			used fo	or transferring	electro	nic mail messages				
	(a)	FTP	(b)	SNMP	(c)	SMTP	(d)	RPC				
Q11.	The sl	owest transmis	sion sp	eeds are those	e of							
	(a)	twisted-pair wire				coaxial cable						
	(c) fiber-optic cable					microwaves						
Q12.	A CPL	J's processing	power is	s measured in								
	(a)	IPS	(b)	CIPS	(c)	MIPS	(d)	nano-seconds				
Q13.	Which	computer mer	nory is	volatile?								
	(a)	RAM	(b)	ROM	(c)	EPROM	(d)	PROM				
Q14.	The computer code for the interchange of information between terminals is											
	(a)	ASCII	(b)	BCD	(c)	EBCDIC	(d)	All of these				
Q15.	Which of the following is not a sequential storage device?											
	(a)	Magnetic disk	(b) Ma	gnetic tape	(c)	Paper tape	(d)	All of these				
Q16.	The da	ata recording a	rea bet	ween the blank	gaps o	n magnetic tap	e is cal	led a/an:				
	(a)	record	(b)	block	(c)	field	(d)	database				
Q17.	On a s (a)	systems flowch online storage			l keepir (b)	keeping of input data is identified by using the (b) online keyboard symbol						
	(c) keeping operation symbols				(d)	manual opera	ation syr	mbols				
Q18.	An example of a hierarchical data structure is											
	(a)	array	(b)	link list	(c)	tree	(d)	ring				
Q19.	Which of the following system software does the job of merging the records from two files into one?											
	(a)	security softw	are		(b)	utility program	n					
	(c)	networking so	ftware		(d)	documentatio	n syste	m				
Q20.	Virtual Memory											
	(a) is a method of memory allocation by which the program is subdivided into equal portions, or pages and core is subdivided into equal portions or blocks											
	(b) consists of those addresses that may be generated by a processor during execution of a computation											
	(c)			ting processor		-1	41	- tim-				
_	(d)	•			·	ate areas of co		e time				
Q21.		-	it datab	ase in the gene		del of compiler?						
	(a)	literal Table			(b)	Identifier Tabl	le					
	(c)	terminal Table			(d)	source code						
Q22.	•	ting system fur		may include								
	(a)	input/output c			(b)	virtual storage	Э					
	(c)	multi-program	•		(d)	All of these						
Q23.	Movin	g process from		-								
	(a)	scheduling	(b)	caching	(c)	swanning	(d)	spooling				

Q24.	In which addressing mode the contents of a register specified in the instruction are first decremented, and these contents are used as the effective address of the operands?												
	(a)	index addre	essing			(b)	indire	indirect addressing					
	(c)	auto increm	ent			(d)	auto	decreme	ent				
Q25.	In ord initializ		only one	e proce	ess to	enter i	s critica	al sectio	n, binar	y semaphore	are		
	(a)	0	(b)	1		(c)	2		(d)	3			
Q26.	The outstanding Invoice file should be stared on a Pardon Access Storage Device if												
	(a)	(a) invoice data entry is on-line											
	(b)	(b) payment recording is done in a batch rode											
	(c)	(c) inquiries concerning payable are to be answered on-line											
	(d) last record points to the first record												
Q27.	In SQL, which command(s) is/are used to enable/disable a database trigger?												
	(a)	ALTER TRI	GGER		(b)	ALTI	ER DAT	ABASE					
	(c)	ALTER TAE	BLE		(d)	MOE	IFY TR	IGGER					
Q28.	The modify operation is likely to be done after												
	(a)	Delete	(b)	Look-	-up	(c)	Inser	t	(d)	all of these			
Q29.	Which	of the follow	ing is no	t a logic	al data	a-base s	structure	?					
	(a)	tree	(b)	relation	onal	(c)	netw	ork	(d)	chain			
Q30.	Which of the following tools is not used in modelling the new system?												
	(a)	decision tab	oles		(b)	data	dictiona	ary					
	(c)	data-flow di	agrams		(d)	all of	these						
Q31.	How many digits of the Network User Address are known as the DNIC (Data Network Identification Code)?												
	(a)	first three	(b)	first fo	our	(c)	first f	ive	(d)	first seven			
Q32.	The most flexibility in how devices are wired together is provided by												
	(a)	bus network	ks (b) rir	ng netwo	orks	(c) s	star netv	vorks	(d) T-s	switched netw	orks		
Q33.	An FM signal contains intelligence in												
	(a)	it's frequency variations					(b)	it's am	nplitude v	/ariations			
	(c)	(c) both amplitude and frequency variations (d) none of these											
Q34.	In PCM system												
	(a)	(a) a large bandwidth is required											
	(b) the biggest disadvantage is its incompatibility with TDM												
	(c) companding is used to overcome quantising noise												
	(d)	(d) none of the above											
Q35.	The all-day efficiency of a transformer depends on												
	(a)	its copper lo			(b)	(b) its iron loss							
	(c) both (a) & (b) (d) None of these												
Q36.	Slip rings for induction motor are made of												
	(a)	copper (b)	alumi	nium	(c)	carb	on	(d)	phosph	or bronze			

Q37.	One of the characteristic of single phase motor is that it												
	(a) is self-starting						(b)	is not self-starting					
	(c) requires only one winding						(d)	can rotate in one direction only					
Q38.	If the input to a differentiating ckt is saw -tooth wave then output will bewave												
	(a)	Square (b) Rectangular					(c)	Triangular	(d)	Saw-tooth			
Q39.	Which gate acts as universal gate?												
	(a)) AND (b) NAND						OR	(d)	EX-OR			
Q40.	A 32 bit microprocessor has word length equal to												
	(a)	1 byte	(b)	2 byte)		(c)	4 byte	(d)	8 byte			
Q41.	If the centre of a circle is (-6,8) and it passes through the origin, then equation to its tangent at the origin is												
	(a)	2y=x	(b)	4y=3x	((c)	3y=4x	(d)	3x+4y=0			
Q42.	The liquid is flowing separately through each of two pipes whose diameters are in the ratio of 2:1, if the ratio of the velocities of flow in the two pipes by 1:2, then the ratio of the amounts of the liquid flowing per sec through the pipe will be												
	(a)	2:1	(b)	1:1			(c)	4:1	(d)	1:8			
Q43.	If $f(x)$	$x) = x + x^2 -$	the der	of $f(x)$	at $x=3$	is							
	(a)	6	(b)	7			(c)	8	(d)	-8			
Q44.	Given	Given $P(A) = 1/4$, $P(B)=1/3$ and $P(AUB)=1/2$. Value of $P(A/B)$ is											
	(a)	1/4	(b)	1/3			(c)	1/6	(d)	1/7			
Q45.	Perm	Permeance of a magnetic circuit corresponds to the following quantity in electrical circuit											
	(a)	conductivity	(b)	resisti	ivity		(c) c	onductance	(d)	resistance			
Q46.	Hydrometer is an instrument for measuring												
	(a)	relative humidity			(b)	pressi	pressure of water						
	(c) volume of liquids (d) spec							ity					
Q47.	Radioactivity is a property of												
	(a)	atomic nuclei			(b)	excited electron							
	(c) gamma rays (d) ultraviolet light												
Q48.	The angle between two vectors a = i+2j-k and b=2i+j+k is												
	(a)	30 deg	(b)	45 de	•		(c)	60 deg	(d)	90 deg			
Q49.	Newto	on is unit of for	ce. It is	the unit	in								
	(a)	•			(b)	CGS system							
	(c) FPS system (d) No						None of these						
Q50.	A Farad is defined as												
	(a)	stat coulomb /volt			(b) (d)	coulomb/volt							
	(c)	coulomb x volt				stat co	stat coulomb x volt						