ENGINEERING KNOWLEDGE TEST (EKT) COMPUTER SCIENCE STREAM

3646

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<u>INSTF</u> 1. 2. 3.	RUCTIONS FOR CANDIDATES Total number of Questions 50. Each Question is of to One mark will be deducted for every wrong answer. No marks will be deducted for un-attempted question	
Q1.	Subtract (1010) ₂ from (1101) ₂ using 1st complement.	01) ₂ (d) (0101) ₂
Q2.	Which of the following memories must be refreshed ma(a)Static RAM(b)Dyr(c)EPROM(d)RO	namic RAM
Q3.	Two pipes A and B can fill a cistern in 37 minutes and are opened together. The cistern will be filled in just after(a) 5 min.(b) 9 min.(c) 10	45 minutes respectively. Both pipes t half an hour, if the B is turned off min. (d) 15 min.
Q4.	A port can be (a) strictly for input (b) stri	ictly for output of the above
Q5.	Frames from one LAN can be transmitted to another L (a) Router (b) Bridge (c) Re	AN via the device epeater (d) Modern
Q6.	What are the two main types of Access Control Lists (11.Standard2.1.Standard2.3.Extended4.4.Specialized(a)1 and 3(b)2 and 4(c)3	ACLs)? and 4 (d) 1 and 2
Q7.	(a) Polar encoding (c) Manchester encoding (d) N	ifferential manchester encoding IRZ
28.	(a) 1/b (b) 5/12 (-)	12 (4) 110
29.	(a) 4 (b) 6 (c)	5 (d) 16
210.	Which of the following technology can give high spee (a) TTL (b) CMOS (c) E	-0- ()
211.	(a) Static memory (d) (c) ROM (d)	ynamic memory None of these
212.	(a) 10111011_2 (d) (c) 10111101_2 (d)	11011101 ₂ 10111100 ₂
213.	 A computer program consists of (a) System flowchart (b) Program flowchart (c) Algorithms written in computer's language (d) Discrete logical steps. 	

	2		BOOKLET SERIES 'J'
Q14.	(a) Software interrupts (c) Polled I/O	(d)	Direct memory access (DMA)
Q15.	From a group of 7 men and 6 women, five so that at least 3 men are there on the com (a) 564 (b) 645	(c)	735 (d) 756
Q16.	An Enterprise Resource Planning application (a) Single-user database application (c) E-commerce database application	(d)	Data mining database application
Q17.	Which of the following is the 1's compleme (a) 01 (b) 110	(C)	11 (0) 10
Q18.	following can be valid host IDs on the LAN 1. 172.16.1.100 3. 172.16.2.255 (a) 1 only (c) 3 and 4 only	(b) (d)	2. 172.16.1.198 4. 172.16.3.0 2 and 3 only None of the above
Q19.	age of the youngest child? (a) 4 years (b) 8 years	(c)	als of 3 years each is 50 years. What is the 10 years (d) None of these
Q20.	The time required for the fetching and exe (a) Delay time (b) CPU cycle	(C)	near time (u) coon and
Q21.	(a) STP (b) VTP	(c)	Bhoi (-)
Q22.	A voltage will influence current only if the (a) open (b) insulated	(0)	night tools and the
Q23.	The full adder CKT adds [(a) 1 (b) 2	(0)	
Q24.	Which of the following statements are 255.255.255.0 192.168.4.2? 1. The command is used to a 2. The default administrative	establis distan	address is 255.255.255.0.
Q25.	Process is: (a) contents of main memory (b) a job in secondary memory (c) a program in execution (d) program in High level language H	cept on	n disk
Q26.	A combinational logic circuit which is us sources through a single transmission lin (a) Encoder (c) Multiplexer	(b	hen it is desired to send data from two or more known as b) Decoder d) Demultiplexer <u>SET NO. 2/16</u>

Q28 Q29 Q30 Q31. Q32.	 (c) (a) (a) (a) (a) (b) (c) (d) Which (a) (c) Which (a) (c) Which (a) (c) 	A netv A netv ch resistiv Therm Potent	lexing eries: 7, following DHCP TFTP 2 o network vork with vork with vork with vork with vork that re compo-	10, 8, (b) servic (b) (c? more only c has of	11, 9, 12 10 es use 2. 5. 2, 3 an than on than on one entr nly one	2, W TCP? SMTP FTP nd 5 e exit po e exit an	(D) (d) (hat nur (c) (c) (c) oint. nd entr	Bidired Hands nber sl 12 3. 1, 2 a	nould co HTTP	 me nex (d) (d)	ng tt? 13 1, 3 and 4
Q30 Q31.	(a) (a) (b) (c) (d) (d) (c) (d) (c) (c) (c) Whic (a) (c)	t is a stut A netv A netv A netv A netv A netv Ch resistiv Therm Potent	following DHCP TFTP 2 0 network vork with vork with vork with vork that re compo-	(b) (c? more more only c has of	es use 2. 5. 2, 3 ar than on than on one entr nly one	TCP? SMTP FTP nd 5 e exit po e exit a	(c) oint. nd entr	nber sł 12 3. 1, 2 a	nould co HTTP nd 4	(a)	13
Q31.	(a) Wha (a) (b) (c) (d) Whic (a) (c) Whic (a) (c)	4. 1 and t is a stut A netv A netv A netv A netv ch resistiv Therm Potent	TFTP 2 0 network vork with vork with vork with vork that re compo-	(b) ? more more only o has o	2. 5. 2, 3 an than on than on one entr nly one	SMTP FTP nd 5 e exit po e exit a	oint. nd entr	1, 2 a	nd 4	(d)	
Q31.	Wha (a) (b) (c) (d) Whic (a) (c) Whic (a) (c)	t is a stut A netv A netv A netv A netv ch resistiv Therm Potent	o network vork with vork with vork with vork that ve compo- listor	more more only c has or	than on than on one entr nly one	e exit pe e exit a	oint. nd entr			(d)	1, 3 and 4
	(c) Whic (a) (c)	th resistiv Therm Potent	e compo listor	onent i			nd exit	nint	in a		
Q32.	(a) (c)	h of the f	tiometer		s desigr	ned to b	e temp (b) (d)	erature Rhec	e sensitiv stat oconduc		
		Comp	ollowing uter bus memory		d to hol	d ROM		CPU a Moth		ansion	
Q33.	(a) (c)	h type of Ex-OP Ex-NA	Case	n be u	sed to a	dd two		Ex-N NOF	IOR		no Ve da
Q34.	Whick (a) (c)		ollowing ontroller er array		a basic	elemei		Arith			? it (ALU)
Q35.	To ma (a) (b) (c) (d)	the free its effe	nna mor nber of i quency o ctive iso print mu	its fee of its tr tropic	d horns ansmis radiate	must b sion mi d powe	e incre ust be i	ased	sed		no bottono uni i bottono bottono bottono bottono
Q36.	In a d (a) (b) (c) (d)	couplin	l couple n (dB) e g (dB) e ity (dB) n (dB) e	quals quals equals	isolations isolation	on plus	directives coupli	ing			
Q37.	(a) (b) (c) (d)	Provide Enables None o	program s a layes s a prog f the ab	ramm ove	iser-trie	raw a fl	lowcha		es		
	(a) (b)	sponder receive change retransr does all	s a sign s the fre	quen	cy of th	ne rece	ived si		es		

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4 Tracking of extra terrestrial objects requires Q39. Very sensitive receiver (b) High transmitting power (a) All of the above Fully steerable antenna (d) (c) The parallel transmission of digital data: Q40. is much slower than the serial transmission of data. (a)requires only one signal line between sender and receiver. (b) requires as many signal lines between sender and receiver as there are data bits. (c) is less expensive than the serial method of data transmission. (d) The hexadecimal number 'A0' has the decimal value equivalent to Q41. 256 (b) 80 (a)(d) 160 100 (c) A wrist grounding strap contains which of the following: Q42 Capacitor (b) Surge protector (a) Resistor (d) Voltmeter (c) The register which contains the instruction that is to be executed is known as Q43. Instruction register (b) Index register (a) Memory data register (d) Memory address register (c) CSMA (Carrier Sense Multiple Access) is Q44. A method of determining which device has access to the transmission medium at (a) any time A method access control technique for multiple-access transmission media. (b) A very common bit-oriented data link protocol issued by ISO. Network access standard for connecting stations to a circuit-switched network (c) (d) What flavour of Network Address Translation can be used to have one IP address allow Q45. users to connect to the global Internet? many PAT (d) Dynamic (c) Static (b) NAT (a) Q46. The method for updating the main memory as soon as a word is removed from the Cache is called write-back (b) Write-through (a) cache-write (d) protected write (c) EPROM contents can be erased by exposing it to Q47. Infrared rays. (b) Ultraviolet rays. (a) Intense heat radiations. (d) Burst of microwaves. (C) A hard disk is divided into tracks which are further subdivided into: Sectors (b) Clusters (a) Heads (d) Vectors (C) In computers, subtraction is generally carried out by 10's complement (b) 9's complement (a) 2's complement (d) 1's complement (c) A JFET has a low input resistance is a current-controlled device (b) is always forward-biased (a) is a voltage-controlled device (d)

Q48.

Q49.

Q50.

(c)

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