

Computer Science

QuestionPaper

Series J

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		ENGINEERING KI			w .	6487
Set 1	la sale			BOOK	LET SEF	RIES 'J' ED : 45 MINUTES
	lo 2/15 RUCTIONS FOR CAND	IDATES				EU: 45 MINUTES
1. 2. 3.	Total number of Que One mark will be ded No mark will be dedu	fucted for every wro	ong ansi	wer.	narks.	
Q1.	to connect to the globa	Address Translational Internet? (b) Static	n can be (c)	used to have Dynamic	one IP a	ddress allow many users
Q2.	Which of the following (a) PL/1	(D) FUHITAIN	.(0)	D. IOIO	orogram?	PASCAL
Q3.	(*)	(b) 56	(c)	33	(d)	None of the above
Q4.	(a) (i) and (iii)	(ii) IEEE	(p) (m)	(ii) and (iv) (i) and (ii)	(iv)	Specialized
Q5.	An unbiased die with obtained, the probabilis not greater than 5 is (a) 16/81	ity that the minimum	3, 4, 5 an face va	and 6 is rolled lue is not less 80/81	d four ting than 2 a	nes. Out of four face values and the maximum face value 65/81
Q6.	(b) A network with (c) A network with (d) A network that	h more than one exit h more than one exit h only one entry and t has only one entry	t and ent d no exit and exit	point		
27.	The projection of a ve (a) scalar (c) neither vector		ctor is		ctor ner scala	r or vector
Q8.	How long is an IPv6 a (a) 32 bits	(h) 128 Dytes		64 bits	(d)	
Q9.	Three houses are avenues without consult (a) 2/9	ting others. The pro	Three pobability to	persons apply that all the thr 8/9	for the ree apply (d)	houses. Each applies for o for the same house is 7/9
Q10.	Which of the following (a) 01	g is the 1's complen (b) 110	nent of 1	0?	(d)	10
Q11.	(b) All purpose So (c) American Sec (d) American Scie	ndard Code for Info cientific Code for In curity Code for Infor entific Code for Info	mation I ormation	nterchange	е	
Q12.	(0) 1 441	· (D) Flaille	4	Block	(d)	Group
Q13.	The value of Sin θ +0	(n) 3U	(0)	00	(d)	
Q14.	The time required for Delay time	the fetching and e	xecution (c)	of one simple Real time	le machine (d)	ne instruction is Seek time

					2				BOOKLET SERIES 'J'
Q15	Your	router has th	e following	IP address o	n Ether	net: 172	.16.2.1/	23. Whi	ch of the following can be
	(i) (a) (c)		00 (11)	erface attache 172.16.1.198		172.16	(b) (d)	(ii) and	172.16.3.0 (iii) only f the above
	(a)	OR	.(0)		(c)	XOR		(d)	NOR
Q17.	. A prog	gram that con	verts com	puter data into	some	code sys	stem ot	her than	the normal one is known
	. (a)	Encoder	(0)-	Simulation	(c)	Emula	tor	(d)	Coding
Q18.	Which (a)	of the follow tree	ing is not (b)	a logical data- relational	base st	ructure? netwo	rk	· (d)	chain
Q19.	Which (a) (c)	is the compo ROM NVRAM	uter memo	ry that does r	not forge	et?	(b) (d)	RAM All of t	he above
Q20.	Which (a)	of the following control unit	and regist	two main col ers	mponen	its of the	(b) (d)	registe	ers and main memory nd bus
Q21.	When a	an input elec 01011	trical signa (b)	al A=10100 is 10001	applied (c)	to a NO 10101	OT gate	e, its out (d)	put signal is 00101
Q22.		s from one L Router		transmitted t Bridge	to anoth (c)	er LAN Repea		device (d)	Modem
Q23.	(i) (a)	of the followind DHCP (ii) (i) and (ii) (i),(ii) and (iv)	SMTP	s use TCP? (iii) HTTF	' (iv)	TFTP	(v) (b) (d)) and (v) and (iv)
Q24.	Conver	sion of decin	nal numbe	er 61 ₁₀ to it's	binary r	number	equival	ent is	
	(a)	1100112	(b)	110011102	(c)	11110	112 _	(d)	111112
Q25.	(a)	west transm twisted-pair fibre-optic co	wire	eds are thos	e of	_	(b)		al cable waves
Q26.	A medi (a)	um for transf Network Modem	ferring dat	a between tw	o location	ons is ca	(b)	Comn Bus	nunication channel
Q27.	The full (a) (b) (c) (d)	to provide a to read, inte to communi to provide e	hard cop rpret and cate with t	process the in the operator	nformati	ion and	instruct	ion	
Q28.	What is program (a)	ms concurre	ntly by sw	hnique in whi itching back a Multitasking	and forth	operating between Windo	en them	em of a n? (d)	computer executes several Paging
Q29.	A comp (a)	outer program system flow algorithms v	n consists chart vritten in c	of omputer's lar	nguage		(b) (d)	discre	am flowchart ete logical steps.
Q30.	A comb	pinational log a a single tra encoder	nsmission	line is knowl	when in as		ired to	1	ata from two or more source

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Q31.	The nuclear particles which are assumed to hold (a) electrons (b) positrons (c)	the nucleons togo neutrons	ether are (d) mesons
Q32.	Which of the following memories must be refresh (a) static RAM (c) EPROM	ned many times po (b) (d)	er second? dynamic RAM ROM
Q33.	The register which contains the instruction that i (a) Index register (c) Memory address register	s to be executed i • (b) (d)	s known as Instruction register Memory data register
Q34.	A voltage will influence current only if the circuit (a) open (c) high resistance	(b) - (d)	insulated closed
Q35.	A hard disk is divided into tracks which are furth (a) clusters (c) vectors	ner subdivided into , (b) (d)	sectors heads
Q36.	If doubling the voltage across a resistor doubles (a) the resistor value decreased (b) the resistor value did not change (c) the resistor value increased (d) it is impossible to determine the change		
Q37.	Out of the following pairs, choose the pair in which dimension? (a) Pressure and Young's modules (b) Planck's constant and Angular moment (c) Impulse and moment of force (d) Force and rate of change of linear Moment (c)	um ientum	
Q38.	Sound produced at a point is heard by a person another person after 6 seconds. If the speed of minimum distances between the two persons? (a) 1.8 km, 0.15 km (c) 2.8 km, 0.25 km	(b) (d)	2.2 km, 0.20 km 3.3 km, 0.30 km
Q39.	An adder in which the bits of the operands are (a) half-adder (c) serial adder	(d)	all of the above
Q40.	Which of the following is used to hold ROM, R. (a) computer bus (c) cache memory	(d)	pansion cards? motherboard all of the above
Q41.	The most electronegative element among the (a) sodium (b) bromine	, ildoinie	(d) oxygen
Q42.	Out of the following, which is not emitted by ra (a) electrons (c) alpha particles	. (d)	electromagnetic Radiations neutrons
Q43.	(a) He	3) \-/	Xe
Q44.	Which resistive component is designed to be (a) Thermistor (b) Potentiometer	(d)	Rheostat Photoconductive cell
Q45.	For attenuation of high frequencies we should (a) shunt capacitance (c) inductance	(b) (d)	series capacitance resistance

BOOKLET SERIES 'J' All of the following alloying elements of steel increase hardness but sacrifice ductility, except Q46. (b) vanadium molybdenum (c) (d) chromium If the resistance in a circuit with constant voltage increases, the current will , (b) (a) Not enough information (d) stay the same (c) Q48. To make antenna more directional, either its size must be increased or the number of its feed horns must be increased the frequency of its transmission must be increased .(b) its effective isotropic radiated power (eirp) must be increased 1(c) its footprint must be increased (d) Q49. A transponder is a satellite equipment which receives a signal from earth station and amplifies (a) changes the frequency of the received signal . (b) retransmits the received signal (c) does all of the above-mentioned functions (d) Q50. Friction factor for fluid flow in pipe does not depend upon the (a) pipe length. pipe roughness. (b) fluid density & viscosity. (c) mass flow rate of fluid (d)

