## 164/2025

Question Booklet Alpha Code

Α	

Question Booklet Serial Number

Total No. of questions: 100 Time: 1 Hour 30 Minutes

Maximum: 100 Marks

#### INSTRUCTIONS TO CANDIDATES

- 1. The question paper will be given in the form of a Question Booklet. There will be four versions of question booklets with question booklet alpha code viz. A, B, C & D.
- 2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the question booklet.
- 3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
- 4. If you get a question booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
- 5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your question booklet is un-numbered, please get it replaced by new question booklet with same alpha code.
- 6. The question booklet will be sealed at the middle of the right margin. Candidate should not open the question booklet, until the indication is given to start answering.
- 7. Immediately after the commencement of the examination, the candidate should check that the question booklet supplied to him contains all the 100 questions in serial order. The question booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
- 8. A blank sheet of paper is attached to the question booklet. This may be used for rough work.
- 9. Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.
- 10. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball-Point Pen in the OMR Answer Sheet.
- 11. Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.
- 12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
- 13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

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(C)

120 kWh

Maximum: 100 marks Time: 1 hour and 30 minutes 1. The effect of rise in temperature is: To increase the resistance of electrolytes (B) To decrease the resistance of pure metals (C) Both (A) and (B) (D) None of the above 2. The main characteristics of a series circuit: (A) Voltage drops are additive (B) Powers are additive (C) Both (A) and (B) (D) None of the above 3. A circuit has two parallel resistors : 30  $\Omega$  and 150  $\Omega$ . The current through the 30  $\Omega$ resistor is 10 A. Find the resistance of a third resistor to be added in parallel so that the total current becomes 18 A. (A)  $50 \Omega$ (B)  $150 \Omega$ (C)  $60 \Omega$ (D)  $30 \Omega$ 4. At a node, two unknown currents meet along with a known current of 7 A entering. If the two leaving currents are 2 A and 5 A respectively, what is the net current entering or leaving the node? (A) 0 A (balanced) (B) 9 A enters 12 A leaves (D) 14 A enters A 1.5 kW heater operates for 4 hours daily. How many units of electricity does it **5**. consume in 30 days? (A) 180 kWh (B) 150 kWh

140 kWh

(D)

6.	The product of electric field intensity at any point within a dielectric medium and the absolute permittivity at the same point is called:				
	(A)	Electric Potential			
	(B)	Electric Displacement			
	(C)	Electric Potential Gradier	nt		
	(D)	Electric Flux			
7.	Which of	the following is correct?			
	(A)	The voltage across a capa	citor is proportion	al to current	
	(B)	Current in the capacitor i	s present only who	en voltage on it changes with time	
	(C)	Capacitor voltage can cha	nge instantaneous	sly	
	(D)	All of the above			
8.	The SI un	it of magnetic permeance is	s:		
	(A)	Weber-ampere	(B)	Ampere-turns	
	(C)	Henry	(D)	Weber per meter	
9.	A galvano moved in	ometer of resistance 200 \( \omega \)	2 is connected in	l in a magnetic field of 2 mWb. series with the coil. If the coil is of 0.5 mWb, calculate the average	
	(A)	5 V and 2.5 mA	(B)	2.5 V and 1.5 mA	
	(C)	$2.5~\mathrm{V}$ and $2.5~\mathrm{mA}$	(D)	1.5 V and 5 mA	
10.				I. When connected in series aiding of coupling between the coils?	
	(A)	10	(B)	0	
	(C)	1	(D)	Infinity	
11.	The resist	civity of a semiconductor	with inc	crease in temperature.	
	(A)	Increases	(B)	Decreases	
	(C)	Remains same	(D)	Becomes zero	

12.	The process of adding impurities to a pure semiconductor to increase its conductivity is called:				
	(A)	Polarization	(B)	Saturation	
	(C)	Oxidation	(D)	Doping	
13.	Zener dio	de works in which region?			
	(A)	Forward bias region	(B)	Reverse breakdown region	
	(C)	Cut-off region	(D)	No biasing	
14.	The efficie	ency of a half-wave rectifier is approx	imately	:	
	(A)	40.6%	(B)	20.2%	
	(C)	81.2%	(D)	100%	
<b>15.</b>	The volta	ge gain of a common-emitter amplifie	er is:		
	(A)	High	(B)	Low	
	(C)	Unity	(D)	Zero	
16.	Thermal	runaway is due to :			
	(A)	Decrease in supply voltage			
	(B)	Decrease in collector current			
	(C)	Increase in base resistance			
	(D)	Increase in leakage current with te	mperatu	re	
17.	The gate-to-source voltage that makes the drain current zero is called:				
	(A)	Forward voltage	(B)	Pinch-off voltage	
	(C)	Breakdown voltage	(D)	Reverse voltage	
18.	The MOS	FET is controlled by :			
	(A)	Current	(B)	Voltage	
	(C)	Power	(D)	Resistance	
19.	A 7909 vo	ltage regulator provides an output of	: :		
	(A)	+5 V	(B)	+9 V	
	(C)	-9 V	(D)	+12	

20.	The device that can control power in one direction only is :			
	(A)	DIAC	(B)	TRIAC
	(C)	SCR	(D)	MOSFET
21.	In an AC	circuit containing resistance and induc	tance,	the power factor is given by :
	(A)	R/Z	(B)	$ m Z/X_L$
	(C)	$X_{I}/Z$	(D)	Z/R
22.	If frequen	cy of supply is doubled, the reactance o	of a pu	re capacitor will :
	(A)	Double	(B)	Remain unchanged
	(C)	Become half	(D)	Become zero
23.	In star con	nnection, each phase has a voltage of 2	30 V.	Then calculate the line voltage.
	(A)	236.31 V	(B)	398.36 V
	(C)	461.48 V	(D)	690.12 V
24.	Calculate	the RMS value of a sinusoidal current	with a	a peak value of 10 A.
	(A)	5 A	(B)	7.07 A
	(C)	8.5 A	(D)	10 A
<b>25</b> .	Which of t	the following is the first step in providi	ng firs	st aid for an electric shock victim?
	(A)	Start CPR immediately		
	(B)	Touch and move the victim to safety		
	(C)	Switch off the power source		
	(D)	Pour water on the victim		
26.	The form	factor of an alternating current wavefo	orm is	the ratio of :
	(A)	Average value to RMS value		
	(B)	RMS value to average value		
	(C)	Peak value to RMS value		
	(D)	RMS value to peak value		

<b>27</b> .	The watt-hour efficiency of a lead-acid cell is generally:							
	(A)	Equal to ampere-hour efficiency						
	(B)	Always 100%						
	(C)	Greater than ampere-hour effici	ency					
	(D)	Lower than ampere-hour efficien	ncy					
28.	What is tl	ne colour code for an earth wire in	electrical i	nstallations?				
	(A)	Red	(B)	Black				
	(C)	Green	(D)	Blue				
29.	The prima	ary purpose of earthing in electric	al installati	ions is to :				
	(A) Reduce power losses							
	(B)	Provide a low-resistance path fo	r fault curr	ents				
	(C)	) Increase system voltage						
	(D)	Improve power factor						
30.	Calculate the total number of cells required in a solar PV system with 48V DC and 300 Ah. Each battery cell is 2 V, 150 Ah:							
	(A)	24	(B)	36				
	(C)	48	(D)	60				
31.	Which IC can be used a Voltage Controlled Oscillator (VCO)?							
	(A)	IC 741	(B)	IC 555				
	(C)	LM 566	(D)	IC 7805				
32.	In a prac		stor is ofte	n added in series with the input				
	(A)	(A) Increase the gain						
	(B)	(B) Prevent oscillation and reduce high-frequency noise						
	(C)	Decrease the output impedance						
	(D)	Provide a DC path for the input	bias curren	t				
33.	In a Colpi	tt's oscillator, the feedback is deri	ived from a	:				
	(A)	Tapped inductor	(B)	Capacitive voltage divider				
	(C)	Resistive voltage divider	(D)	Tuned transformer				

34.	Which AD	OC type is generally the fastest?		
	(A)	Dual Slope	(B)	Successive Approximation
	(C)	Counter Type	(D)	Flash
35.	In a succe	essive approximation type ADC, th	ne conversio	on time for an n-bit converter is:
	(A)	Proportional to 2 <sup>n</sup>		
	(B)	Proportional to n		
	(C)	Constant and independent of n		
	(D)	Proportional to the input voltage	е	
36.	In a differ	rential amplifier, a high CMRR is	desirable b	ecause it means the amplifier :
	(A)	Has a very high voltage gain		
	(B)	Can reject noise common to both	n inputs effe	ectively
	(C)	Has a very wide bandwidth		
	(D)	Consumes very little power		
37.	The prima	ary function of a Schmitt Trigger i	is to :	
	(A)	Amplify signals		
	(B)	Generate sine waves		
	(C)	Convert a noisy signal into a cle	an square v	vave
	(D)	Integrate a signal		
38.	The input	bias current of an op-amp is defin	ned as the :	
	(A)	Difference between the two input	ıt base curr	ents
	(B)	Average of the two input base cu	urrents	
	(C)	Maximum current that can be so	ourced from	the input
	(D)	Current required to zero the out	put offset v	oltage
39.	The prima		configuratio	on in an instrumentation amplifier
	(A)	High output current		
	(B)	High input impedance and high	CMRR	
	(C)	Low output impedance		
	(D)	Oscillation		

<b>40.</b>	The purpose of a precision rectifier over a standard diode rectifier is to:								
		(A)	Handle higher voltages						
		(B)	Rectify very high-frequency signals						
		(C)	Eliminate the diode forward	voltage drop ei	rror				
		(D)	Provide electrical isolation						
41.	Whi	ch of	the following statement/s is/are	e true regardin	ng PVC conduit wiring?				
	(i)	Con	duit size is stated in terms of i	nner diameter.					
	(ii)	It pr	rovides protection against mecl	hanical damag	e.				
		(A)	Both (i) and (ii) are true	(B)	Only (i) is true				
		(C)	Only (ii) is true	(D)	Both (i) and (ii) are false				
42.			the approximate nominal crosspecifications 3/0.925?	ss sectional a	rea of a multistranded wire with				
		(A)	2	(B)	3				
		(C)	3.5	(D)	2.5				
43.	Which of the following statement/s is/are true regarding HRC fuse?								
	(i)	It re	equires replacement after each	operation.					
	(ii)	ii) Interlocking is possible in these types of fuses.							
		(A)	Both (i) and (ii) are true	(B)	Only (i) is true				
		(C)	Only (ii) is true	(D)	Both (i) and (ii) are false				
44.	Whi	ch of	the following statement/s is/are	e true regardir	ng plate earthing?				
	(i)	(i) The advantage of plate earthing is that the discontinuity of earth wire with plate can be observed physically.							
	(ii)		rthing plate is surrounded by alternate layers of salt and charcoal to reduce th resistance.						
		(A)	Both (i) and (ii) are true						
		(B)	Only (i) is true						
		(C)	Only (ii) is true						
		(D)	Both (i) and (ii) are false						

- **45.** Which of the following statement/s is/are true regarding MCB?
  - (i) MCBs are connected in series with phase wire.
  - (ii) The thermal overload protection in a MCB is achieved with a solenoid operating a plunger.
    - (A) Both (i) and (ii) are false
    - (B) Only (i) is true
    - (C) Only (ii) is true
    - (D) Both (i) and (ii) are true
- **46.** Which of the following statement/s is/are true regarding full wave diode rectifier with centre tapped transformer?
  - (i) Peak inverse voltage of diode used is less compared to that of diode used in half wave rectifier.
  - (ii) The output voltage has more ripple content compared to half wave rectifier.
    - (A) Both (i) and (ii) are true
    - (B) Only (i) is true
    - (C) Only (ii) is true
    - (D) Both (i) and (ii) are false
- **47.** Which of the following statement/s is/are true regarding UJT relaxation oscillator employing an RC circuit?
  - (i) The discharge time of the capacitor is made larger compared to the charging time.
  - (ii) The width of the output pulse can be varied by varying the resistance or capacitance.
    - (A) Both (i) and (ii) are true
    - (B) Only (ii) is true
    - (C) Only (i) is true
    - (D) Both (i) and (ii) are false
- **48.** Which of the following statement/s is/are true regarding IGBT?
  - (i) It has a lower conduction drop like a power transistor.
  - (ii) It has a high input impedance like power MOSFET.
    - (A) Both (i) and (ii) are true
    - (B) Only (ii) is true
    - (C) Only (i) is true
    - (D) Both (i) and (ii) are false

	(i) (ii)	It is a bidirectional thyristor.  It has three terminals.							
	(iii)	It is	It is used widely for control of power in AC circuits.						
		(A)	Only (i) and (ii) are	true					
		(B)	Only (ii) is true						
		(C)	Only (ii) and (iii) are	e true					
		(D)	(i), (ii) and (iii) are t	rue					
<b>50.</b>	Mat	ch the	e following component	ts of a	UPS to their fur	actions :			
	(1)	Batte	ery charger	(i)	Converts AC to	DC			
	(2)	Inver	rter	(ii)	Converts DC to	AC			
	(3)	Stati	c contactor	(iii)	Connects load is alternate AC so	from inverter to apply			
		(A)	(1)-(ii), (2)-(i), (3)-(iii	i)	(B)	(1)-(iii), (2)-(ii), (3)-(i)			
		(C)	(1)-(i), (2)-(ii), (3)-(iii	i)	(D)	(1)-(i), (2)-(iii), (3)-(ii)			
51.	The Gray code equivalent of binary 10				01 is :				
		(A)	101		(B)	111			
		(C)	110		(D)	100			
<b>52</b> .	How	v man	y distinct values can l	be rep	resented using a	n 8-bit binary number?			
		(A)	128		(B)	255			
		(C)	256		(D)	512			
<b>5</b> 3.	The	binar	y value 1 represents	which	logic level?				
		(A)	High		(B)	Low			
		(C)	Negative		(D)	Undefined			
<b>54.</b>	The	Boole	ean expression $A + \overline{A}A$	B sim	plifies to :				
		(A)	A		(B)	B			
		(C)	A + B		(D)	AB			
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**49.** Which of the following statement/s is/are true regarding TRIAC?

ээ.	now man	y filp-flops are required to design a 4-bi	it coui	nter?
	(A)	1	(B)	2
	(C)	3	(D)	4
<b>56.</b>	What is th	ne size of the program counter in 8051?		
	(A)	8-bit	(B)	64-bit
	(C)	16-bit	(D)	32-bit
<b>57.</b>	Which log	gic family is most suitable for impleessors?	ement	ting complex digital systems like
	(A)	SSI	(B)	MSI
	(C)	LSI	(D)	VLSI
<b>58.</b>	The fan-or	ut of a TTL gate is usually :		
	(A)	10	(B)	5
	(C)	1	(D)	15
<b>59.</b>	Which log	ic family generally has the lowest stati	c pow	er dissipation?
	(A)	TTL	(B)	CMOS
	(C)	ECL	(D)	DTL
60.	Which me	mory has the fastest access time?		
	(A)	DRAM	(B)	SRAM
	(C)	EEPROM	(D)	ROM
61.	The arma	ture core of a DC Machine is made of _		material.
	(A)	Carbon	(B)	Silicon Steel
	(C)	Iron	(D)	Steel
62.	The numb	er of parallel paths in a Wave Wound 8	8 pole	DC Generator?
	(A)	2	(B)	8
	(C)	8/2	(D)	8×2
63.	The mater	rial used for the commutator :		
	(A)	Iron	(B)	Aluminum
	(C)	Silicon Steel	(D)	Copper

64.	<b>64.</b> The front pitch of a 4 pole 24 slots Single Layer Lap Winding of a DC Generator is :			inding of a DC Generator is :
	(A)	8	(B)	6
	(C)	7	(D)	None
65.	In a Lap V	Winding, the number of brush	nes are equal to	:
	(A)	2	(B)	Poles
	(C)	4	(D)	Commutator Segments
66.	The gener	rating voltage at the generati	ng station in Ke	rala is :
	(A)	11 KV	(B)	400 V
	(C)	230 V	(D)	440 V
67.	An AC Inc	duction Motor has :		
	(A)	Commutator	(B)	Brushes
	(C)	Slip	(D)	None of these
68.	What is th	ne frequency of AC supply in	most house hold	electrical system in India?
	(A)	40 Hz	(B)	50 KHz
	(C)	50 Hz	(D)	70 KHz
69.	Why do Si	ingle-Phase Induction Motors	s require an aux	iliary winding?
	(A)	To increase motor weight		
	(B)	To decrease motor heating		
	(C)	To reduce flux density		
	(D)	To create a rotating magnet	cic field and prov	vide starting torque
70.	The motor	r which can be used in both A	.C and DC suppl	y is generally known as?
	(A)	Universal Motor	(B)	Repulsion Motor
	(C)	Synchronous Motor	(D)	Induction Motor
71.	In a TV re	eceiver, the color killer :		
	(A)	cuts off the chroma stages d	luring monochro	ome reception
	(B)	ensures that no color is tran	nsmitted to mon-	ochrome receivers
	(C)	prevents color overloading		
	(D)	makes, sure that the color be reception during the back p		aken for sync pulses, by cutting off

<b>72</b> .	In radio broadcasting, rhombic antennas are used for :				
	(A)	short distance broadcasting			
	(B)	long distance directional bro	adcasting		
	(C)	uniform coverage around an	antenna		
	(D)	none of above			
73.	The value therefore	_	al noise is doub	oled. The noise power generated is	
	(A)	halved	(B)	quadrupled	
	(C)	doubled	(D)	unchanged	
74.	Bandwidt is:	h occupied by 100 MHZ carri	er, AM modula	ted by signal frequency of 10 KHZ	
	(A)	100 MHZ	(B)	20 KHZ	
	(C)	10 KHZ	(D)	110 MHZ	
<b>75</b> .	_	ve peak of an AM wave is 16 alation, the modulation index		mum value is 4V. Assuming single	
	(A)	0.6	(B)	0.25	
	(C)	4	(D)	0.36	
76.	In a televi	sion camera tube, scanning of	a picture is do	ne:	
	(A)	Line by line from left to righ	t		
	(B)	Line by line from right to lef	t		
	(C)	Line by line from top to botto	om		
	(D)	Line by line from bottom to t	cop		
77.	The decod	er for PAL system is :			
	(A)	Similar to NTSC decoder			
	(B)	Similar to NTSC decoder sup	pplemented by	64 ms delay line	
	(C)	Similar to NTSC decoder succommutator	pplemented by	64 ms delay line and an electronic	
	(D)	Either (B) or (C)			

78. Which one of the following is non-resonant antenna?								
		(A)	Folded dipole	(B)	Broad side array			
		(C)	End fire array	(D)	Rhombic antenna			
79.	<b>79.</b> In PCM, the quantization noise depends on :							
		(A)	Sampling rate	(B)	Signal power			
		(C)	No. of quantization level	(D)	Signal energy			
80.	The	modu	lation technique most affected by noise	is:				
		(A)	ASK	(B)	PSK			
		(C)	FSK	(D)	QAM			
81.	Consider the following statements:							
(i) Moving iron power factor meters are commonly used rather the type of meters.					used rather than electrodynamic			
	(ii)	Moving iron power factor meters are more prone to errors compared to electrodynamic type of meters.						
		Which of the statement is/are CORRECT?						
		(A)	Only (i)	(B)	Only (ii)			
		(C)	Both (i) and (ii)	(D)	Neither (i) and (ii)			
82.	82. When the current through the operating coil in a moving iron instrument gets the initial operating torque:				ring iron instrument gets doubled,			
		(A)	Remain same	(B)	Increases four times			
		(C)	Decreases four times	(D)	Increases two times			
83.	Consider the statements in three phase power measurement using two wattmeter method:							
	(i)	(i) The power factor is unity when both wattmeters has identical readings.						
	(ii)	) The power factor is unity when one of the wattmeters reads zero.						
	(iii)	(iii) The power factor is 0 when both wattmeters read same and one wattmeter give negative reading ( $W_1 = -W_2$ )						
	Identify the Correct statements :							
		(A)	Only (i)	(B)	Only (ii) and (iii)			
		(C)	Only (i) and (ii)	(D)	Only (i) and (iii)			

		(A)	Highly inductive	(B)	Purely inductive			
		(C)	Highly resistive	(D)	Purely resistive			
85.	Which of the following statement/s is/are True about a current transformer?							
	(i)	The primary winding has few turns.						
	(ii)	The secondary winding has few turns.						
	(iii)	The primary winding has large number of turns.						
	(iv)	v) The secondary winding has large number of turns.						
		(A)	Only (i) and (ii)	(B)	Only (i) and (iv)			
		(C)	Only (ii) and (iii)	(D)	Only (iii)			
86.	In an energy meter copper shading bands are provided to:							
		(A) Bring flux exactly in quadrature with applied voltage						
		(B) Increase the speed of the aluminium disc						
		(D)	Reduce creeping error					
87.	A multimeter is used for the measurement of which of the following:							
	(i)	ac voltage and current						
	(ii)	dc voltage and current						
	(iii)	energy						
	(iv)	) power						
		(A)	Only (i) and (ii)	(B)	Only (iii) and (iv)			
		(C)	Only (i), (ii) and (iii)	(D)	Only (i), (iii) and (iv)			
88.	Which of the following method is used for the measurement of Medium Resistance?							
		(A)	Kelvins Double bridge					
		(B)	Wheatstone's bridge					
		(C)	Direct-Deflection method					
		(D)	Anderson's bridge					

**84.** In an electro dynamo meter wattmeter, the pressure coil is:

		(A)	Schering bridge	(B)	Kelvins Bridge		
		(C)	Wein's bridge	(D)	Maxwell's Bridge		
90.	Arrange the following components in a data acquisition system :						
	(1)	Amp	lifier				
	(2)	Anal	og to Digital converter				
	(3)	Filte	r				
	(4)	Sensors and Transducers					
	(5)	Display					
		(A)	(4)-(1)-(3)-(2)-(5)	(B)	(4)-(3)-(1)-(2)-(5)		
		(C)	(4)-(2)-(3)-(1)-(5)	(D)	(4)-(2)-(1)-(3)-(5)		
91.	91. How much on-chip RAM is available in 8051 microcontroller?						
		(A)	64 bytes	(B)	128 bytes		
		(C)	2 Kbytes	(D)	4 Kbytes		
92.		hich special function register of 8051 microcontroller is used to hold the memory					
		(A)	A Register	(B)	B Register		
		(C)	PC	(D)	DPTR		
93.	The initial value in the SP register of 8051 microcontroller after a system reset :						
		(A)	00H	(B)	7FH		
		(C)	07H	(D)	FFH		
94.	Which port pins of 8051 microcontroller have no alternate functions?						
		(A)	Port 0	(B)	Port 1		
		(C)	Port 2	(D)	Port 3		

89. The bridge that is used to measure the inductance of a coil is:

95. Which bit in the PSW register of 8051 microcontroller functions as the A				functions as the AC flag?				
	(A)	PSW.0		(B)	PSW.2			
	(C)	PSW.6		(D)	PSW.7			
96.		nge of addresses in the 8051 sable memory?	microcor	ntrol	ler's internal RAM is dedicated to			
	(A)	00H to 1FH		(B)	80H to FFH			
	(C)	30H to 7FH		(D)	20H to 2FH			
97.		atrol signal of 8051 microcontr CPROM memory?	oller is us	sed to	o read a program code byte from an			
	(A)	$\overline{RD}$		(B)	$\overline{WR}$			
	(C)	ALE		(D)	$\overline{PSEN}$			
98.		the following instructions g mode for data transfer?	written	for	8051 microcontroller uses direct			
	(A)	MOV A, 30h		(B)	MOV A, #30h			
	(C)	MOV A, R0		(D)	MOV A, @R0			
99.	_	nich part of the following special function register of 8051 microcontroller has control s and flags for the external interrupts?						
	(A)	Lower nibble of TMOD						
	(B)	Upper nibble of TMOD						
	(C)	Lower nibble of TCON						
	(D)	Upper nibble of TCON						
100.	If the crys		ontroller i	s 12	MHz, what will be the timer clock			
	(A)	1MHz		(B)	$3 \mathrm{MHz}$			
	(C)	$6 \mathrm{MHz}$		(D)	$12 \mathrm{MHz}$			
				_				

## SPACE FOR ROUGH WORK

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