## MIZORAM PUBLIC SERVICE COMMISSION

## Competitive Examinations for Recruitment to the post of Inspector of Legal Metrology under Food, Civil Supplies & Consumer Affairs Department, Government of Mizoram, December, 2018

## ELECTRICAL ENGINEERING PAPER - I

Time Allowed: 2 hours		Full Marks: 200
	All questions carry equal marks of two (2) each. Attempt all questions.	

- The electric field in the vicinity of two oppositely charged parallel conductors is

   (a) radial uniformly
   (b) in parallel lines between the two imaginary parallel planes passing through the centres of the two conductors
  - (c) not uniform and its direction changes from point to point(d) in parallel circular paths between the two conductors, with the centre of the circles located at the mid-point of a line joining the two centres of the two conductors
- 2. What is the value of total electric flux coming out of a closed surface?
  - (a) Zero
  - (b) Equal to volume charge density
  - (c) Equal to the total charge enclosed by the surface
  - (d) Equal to the surface charge density
- **3.** Which one of the following statements is correct? The wavelength of a wave propagating in a waveguide is
  - (a) smaller than the frees pace wavelength (b) greater than the frees pace wavelength
    - (c) directly proportional to the group velocity (d) inversely proportional to the phase velocity
- **4.** The Maxwell equation  $\nabla \times H = J + \frac{\partial \overline{D}}{\partial t}$  is based on
  - (a) Ampere's law(b) Gauss's law(c) Faraday's law(d) Coulomb's law
- 5. The ratio of the velocity of a wave in free-space to that in the conducting medium is known as
  - (a) space factor (b) attenuation
  - (c) pointing vector (d) refractive index
- **6**. If frequency of a plane electromagnetic wave increases four times the depth of penetration, when the wave is incident normally on a good conductor will
  - (a) increase by factor of two (b) decrease by a factor of four
  - (c) remain same (d) decrease by a factor of two

7.	The electric field of a uniform plane wave is given by			
	$E = 10\sin(10wt - \pi z)\hat{a}_x + 10\cos(wt - \pi z)\hat{a}_y$ (V/m). The polarization of the wave is			
	(a)	Circular	(b)	Elliptical
	(c)	Linear	(d)	Undefined
8.	The i	mportant postulate arising out of Maxwell's ma	odifi	cation of Ampere's law is that
	(a)	a steady current produces a magnetic field		
	(b)	a changing magnetic field produces an electric	c field	1
	(c)	a changing electric field produces a magnetic	field	
	(d)	a motional emf is produced by a coil moving i	n a n	nagnetic field
9.		n electromagnetic wave incident from one med when the angle of incidence is equal to the	ium (	on to a second medium, total reflection takes
	-	Brewster angle with E field perpendicular to t	he ni	ane of incidence
		Brewster angle with E field parallel to the plan	-	
		Critical angle with the wave moving from the		
	` /	Critical angle with the wave moving from the		
<b>1</b> 0.	A me	dium behaves like dielectric when the		
	(a)	displacement current is just equal to the cond	uctio	n current
	(b)	displacement current is less than the conducti	on cu	urrent
	(c)	displacement current is much greater than the	cond	duction current
	(d)	displacement current is almost Negligible		
11.		ne slab of dielectric having dielectric constanty of 2 C/m <sup>2</sup> , is uniformly polarized. The polar		
	(a)	$0.4 \text{ C/m}^2$	(b)	$1.6 \mathrm{C/m^2}$
	(c)	$2.0 \mathrm{C/m^2}$	(d)	$6.4 \mathrm{C/m^2}$
12.		lectric field on a plane is described by its pote ource. The field is due to	ntial	$V=20(r^{-1}+r^{-2})$ where r is the distance from
	(a)	a monopole	(b)	a dipole
	(c)	both a monopole and a dipole	(d)	a quadrupole
13.	The e	equation of continuity defines the relation betw	een	
	(a)	electric field and magnetic field	(b)	electric field and charge density
	(c)	flux density and charge density	(d)	current density and charge density
14.		iform plane wave has a wavelength of 2 cm in relative permittivity of the dielectric?	free	space and 1 cm in a perfect dielectric. What
	(a)	2.0	` ′	0.5
	(c)	4.0	(d)	0.25
15.		sless transmission line with characteristic in ive load of 900 ohms. The reflection coefficien	-	ance of 600 ohms is terminated in a purely
	(a)	0.2	(b)	0.5
	(c)	0.667	(d)	1.5

16.	When	n electric field is parallel to the plane of incide	nce, 1	the electromagnetic wave is said to be
	(a)	linearly polarized	(b)	circularly polarized
	(c)	elliptically polarized	(d)	parallel polarized
17.	The	electric field strength of a charge		
	(a)	increases with distance	(b)	decreases with distance
	(c)	decreases with square of distance	(d)	decreases with cube of distance
18.		good conductor the phase relation between the aetic field $H_t$ is:	tange	intial components of electric field $E_t$ and the
	(a)	E <sub>t</sub> and H <sub>t</sub> are in phase	(b)	E <sub>t</sub> and H <sub>t</sub> are out of phase
	(c)	H <sub>t</sub> leads E <sub>t</sub> by 90°	(d)	E <sub>t</sub> leads H <sub>t</sub> by 45°
19.		night current carrying conductor and two conductor. What are the induced currents in the two lo		loops A and B are shown in the figure given
		i		
	В	) (A)		
	(a)	antial advisa in A and alactricia in D	(l <sub>2</sub> )	ala altrivia a in A and anti ala altrivia a in D
	` '	anticlockwise in A and clockwise in B clockwise both in A and B	` /	clockwise in A and anticlockwise in B anticlockwise both in A and B
20	. ,			
20.		s are said to be circularly polarized if their mage equal and they are in phase	_	equal and they differ in phase by $\pm 90^{\circ}$
	` ′	unequal and they differ in phase by $\pm 90^{\circ}$	. ,	unequal and they are in phase
21		well's wave equations are	(-)	and quantities and an prince
		$\nabla \times E = \frac{-\partial B}{\partial t}$	(b)	$\nabla \times E = \frac{-\partial B}{\partial t}, \ \nabla \times H = \frac{-\partial D}{\partial t}$
	(c)	$\nabla .D = 0, \ \nabla^2 E = \mu_0 \in_0 \frac{\partial^2 E}{\partial t^2}$	(d)	$\nabla^2 E = \mu_0 \in_0 \frac{\partial^2 E}{\partial t^2}, \ \nabla^2 B = \mu_0 \in_0 \frac{\partial^2 B}{\partial t^2}$
22.	When	n a time varying field is applied to a circuit wit	h a ca	apacitor
	(a)	current in the circuit consists of conduction c	urren	t and displacement current
	(b)	displacement current passes through the capa	citor	
	(c)	conduction current is equal to the displaceme		
	(d)	conduction current density is J and displacen	nent c	current density is $\frac{\partial D}{\partial t}$
23.	If $\vec{E}$ i	is the electric intensity, $\nabla(\nabla \times \vec{E})$ is equal to		
	(a)	$ec{\mathbf{E}}$	(b)	$\left  ec{\mathbf{E}}  ight $
	(c)	null vector	(d)	zero

24.		number of electrons that can be accommodate en solid is equal to	ed in	various electron states in a valence band of
	_	atomic number of the solid	(b)	half the number of atoms in the solid
	` '	the number of atoms in the solid	` /	twice the number of atoms in the solid
25.	` ,	ch of the following is zero as applied to electron		
		grad div $\overline{A}$	_	div grad V
	` ′	$\overrightarrow{div}$ curl $\overrightarrow{A}$		curl curl $\vec{A}$
26	` /	n a semiconductor bar is heated at one end, a v	` /	
20.		s positive, the semiconductor is	Onas	ge across the bar is developed. If the heated
	(a)	p-type	(b)	n-type
	(c)	Intrinsic	(d)	Highly degenerate
27.	Some	e ceramic superconductors become supercondu	actin	g
	(a)	Below liquid helium temperature		
	(b)	Between liquid helium and liquid nitrogen tem	pera	tures
	(c)	Above liquid nitrogen temperature but below	roon	n temperature
	(d)	Above room temperature		
28.	The H	Hall effect voltage in intrinsic silicon is		
	(a)	positive	(b)	zero
	(c)	negative	(d)	changes in sign on application of magnetic field
29.	Ferri	tes have		
	(a)	Low copper loss	(b)	Low eddy current loss
	(c)	Low resistivity	(d)	High specific gravity compared to iron
30.	Which type of magnetic behaviour is observed in a type-1 super conductor?			-1 super conductor?
	(a)	perfect diamagnetism	(b)	perfect paramagnetism
	(c)	perfect ferromagnetism	(d)	perfect ferrimagnetism
31.	Whic	ch one of the following statements is correct? The	e hal	l coefficient of an intrinsic semiconductor is
	(a)	positive	(b)	negative
	(c)	zero	(d)	infinite
32.	The	conductivity of a conducting material on being	subje	ect to critical magnetic field changes to
	(a)	normal state	(b)	unstable state
	(c)	temperature-independent state	(d)	temperature-dependent state
33.	Supe	rconductivity is destroyed		
	(a)	At high temperature	(b)	At high magnetic field
	(c)	In presence of magnetic impurities	(d)	In all the above cases
34.	For a	semiconductor, which one of the following st	atem	ents is NOT correct?
	(a)	When an electron and hole recombine, energy	y mu	st be liberated
	(b)	Electrons in the conduction band can acquire empty energy levels available	a net	acceleration from a field because there are
	(c)	An electron in the valence band cannot be a energy levels available	iccel	erated by the field unless there are empty

(d) Holes cannot be accelerated by the field unless there are empty energy levels available

35.	On w	which of the following factors does the value of	critical	current density in a superconductor depend?		
	(a)	Temperature	(b)	Applied magnetic field		
	(c)	Temperature and applied magnetic field	(d)	Silsbee's rule		
36.	Allm	nagnetic materials lose their magnetic propert	ies whe	en		
	(a)	Cooled to low temperature	(b)	Heated to high temperature		
	(c)	Kept in an aluminium box	(d)	Kept in vacuum		
37.	At th	e increasing temperature, the electrical condu	ıctivity	would		
	(a)	increase in metals as well as in intrinsic sem	icondu	ctors		
	(b)	(b) increase in metals but decrease in intrinsic semiconductors				
	(c)	increase in metals but decrease in intrinsic s	emicor	nductors		
	(d)	decrease in metals as well as in intrinsic sen	nicondu	uctors		
38.	The t	emperature coefficient of a resistance of a de	oped se	emiconductor is		
	(a)	always positive				
	(b)	always negative				
	(c)	zero				
	(d)	positive or negative depending on the level	of dopi	ng		
39.	Princ	eiple of Hall Effect is used in the construction	of which	ch of the following?		
	(a)	Ammeter	(b)	Voltmeter		
	(c)	Galvanometer	(d)	Gaussmeter		
40.	The	electron relaxation time of metal A is $2.7 \times 10^{-1}$	0-4 sec	and that of B is 1.35×10 <sup>-4</sup> sec. The ratio of		
	resist	tivity of B to resistivity of A will be				
	` '	4.0	` '	2.0		
	(c)	0.5	(d)	0.25		
41.	When	n the temperature of a magnetic material is re	aised a	bove the Curie point, it becomes		
	(a)	diamagnetic	(b)	paramagnetic		
	(c)	ferromagnetic	(d)	ferromagnetic		
42.	Whic	ch one of the following is not permanent magn	netic m	aterial?		
	(a)	Chromium steel	(b)	Silicon iron		
	(c)	Cobalt steel	(d)	Alnico		
<b>43</b> .	Whic	ch one of the following materials does not ha	ve a co	valent bond?		
	(a)	Metals	(b)	Silicon		
	(c)	Organic polymers	(d)	Diamond		
44.	Piezo	pelectric effect is generally observed in				
	(a)	insulators	(b)	insulators and semiconductors		
	(c)	conductors and superconductors	(d)	conductors and semiconductors		
<b>45.</b>	Ferri	tes are the materials which have				
	(a)	low permeability and low dielectric loss	(b)	low permeability and high dielectric loss		
	(c)	high permeability and low dielectric loss	(d)	high permeability and high dielectric loss		
46.	With	an increase in temperature, the Fermi level in	n an int	rinsic semiconductor		
	(a)	moves closer to the conduction band edge	(b)	moves closer to the valence band edge		
	(c)	moves into the conduction band	(d)	remains at the centre of the forbidden gap		

- 47. Ferrimagnetic materials generally find application as
  - (a) conductors

(b) insulators

(c) superconductors

- (d) semiconductors
- 48. In intrinsic semiconductor the free electron concentration depends on
  - (a) effective mass of electrons only
  - (b) effective mass of holes only
  - (c) temperature of the semiconductor
  - (d) width of the forbidden energy band of the conductor
- 49. Thermal expansion of materials arises for
  - (a) strong bonds

(b) weak bonds

(c) thermal vibrations

- (d) asymmetry of potential energy curve
- 50. The temperature coefficient of resistance of an insulator is
  - (a) positive and independent of temperature
- (b) negative and independent of temperature
- (c) negative and dependant on temperature
- (d) positive and dependent on temperature
- **51.** A semiconductor has a band gap of 2 eV. The wavelength of radiation emitted from the semiconductor when electrons and holes recombine is
  - (a) 625 nm

(b) 625 mm

(c) 625 mm

- (d) 625 cm
- **52**. When two-wattmeter method of measurement of power is used to measure power in a balanced three phase circuit; if the wattmeter reading is zero, then
  - (a) power consumed in the circuit is zero
- (b) power factor of the circuit is zero

(c) power factor is unity

- (d) power factor is 0.5
- 53. For the parallel RLC circuit to be overdamped

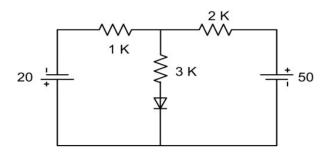
(a) 
$$R < 2\sqrt{\frac{L}{C}}$$

(b) 
$$R > 2\sqrt{\frac{L}{C}}$$

(c) 
$$R < \frac{1}{2} \sqrt{\frac{L}{C}}$$

(d) 
$$R > \frac{1}{2} \sqrt{\frac{L}{C}}$$

**54.** The Thevenin resistance across the diode in the circuit is

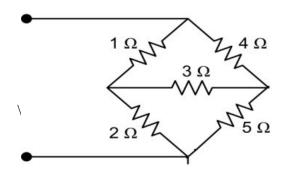


(a) 
$$2\frac{3}{4}K$$

(b) 
$$2\frac{1}{5}K$$

(c) 
$$3\frac{2}{3}k$$

- **5**5. According to maximum power transfer theorem, when is the maximum power absorbed by one network from another network?
  - (a) The impedance of one of the network is half that of the outer
  - (b) The impedance of one is the complex conjugate of the other
  - (c) The impedance of one is equal to that of the other
  - (d) Only the resistive parts of both are equal
- **56.** The input resistance of the circuit shown is



(a)  $1\Omega$ 

(b)  $3.36 \Omega$ 

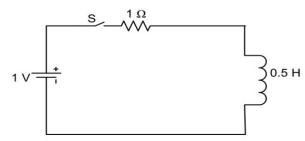
(c)  $2.24 \Omega$ 

- (d)  $1.12 \Omega$
- **57.** The poles and zeros of an all-pass network are located in which part of the s-plane?
  - (a) Poles and zeros are in the right half of s-plane
  - (b) Poles and zeros are in the left half of s-plane
  - (c) Poles in the right half and zeros in the left half of s-plane
  - (d) Poles in the left half and zeros in the right half of s-plane
- **58**. In a network containing resistance and reactances, the roots of the characteristics equation given for the circuit?
  - (a) The forced response

(b) The total response

(c) The natural response

- (d) The damped response
- **59.** Which of the following is incorrect with regard to reciprocity theorem.
  - (a) applicable for single voltage source
  - (b) initial conditions are assumed to be zero
  - (c) there should not be any extra dependent or independent sources in network
  - (d) none of these
- **60.** Cauer and Foster forms of realizations are used only for
  - (a) driving point reactance functions
- (b) transfer reactance functions
- (c) driving point impedance functions
- (d) transfer impedance functions
- 61. Steady state value of the current in the circuit



(a) 0

(b) 1/2

(c) 2

(d) 1

62.	The maximum power that a 12 V d.c. source resistive load is	e with an internal resistance of $2\Omega$ can supply to a			
	(a) 12 W	(b) 18 W			
	(c) 36 W	(d) 48 W			
63.	3. When network are connected in series, it is convenient to use				
•••	(a) Z-parameter	(b) Y-parameter			
	(c) h-parameter	(d) g-parameter			
64.	For a series RLC circuit, the power factor at the	, , , , ,			
0 1.	(a) 0.5 lagging	(b) 0.5 leading			
	(c) unity	(d) 0.707 leading			
65	A series RLC circuit resonance at 1 MHz at fro	· ,			
05.	(a) capacitive	(b) inductive			
	(c) resistive	(d) none of these			
66	The condition for the electrical symmetry in the				
00.	•				
	(a) $h_{12} = -h_{21}$	(b) $AD - BC = 1$			
	(c) $Z_{12} = Z_{21}$	(d) $A = D$			
<b>6</b> 7.	Which of the following theorems can be applied time-variant or time-invariant?	to any network-linear or non-linear, active or passive			
		(h) Norton the enem			
	<ul><li>(a) Thevenin theorem</li><li>(c) Tellegen theorem</li></ul>	<ul><li>(b) Norton theorem</li><li>(d) Superposition theorem</li></ul>			
<b>60</b>		` ' -			
08.	In a series RLC circuit, the maximum voltage				
	(a) double the resonant frequency	(b) equal to resonant frequency			
<b>60</b>	(c) times the resonant frequency	(d) below the resonant frequency			
69.	In a two port network, the condition for recipr	· · · · · · · · · · · · · · · · · · ·			
	(a) $h_{12} = h_{21}$	(b) $h_{11} = h_{22}$			
	(c) $h_{11} = -h_{22}$	(d) $h_{12} = -h_{21}$			
<b>70</b> .	The driving point impedance function $Z(s) = \frac{s}{s}$	$\frac{s^2 + 2s + 2}{s^2 + s + 1}$ can be realized as a			
	(a) R-C network	(b) R-L network			
	(c) L-C network	(d) R-L-C network			
71.	Three currents $i_1$ , $i_2$ and $i_3$ are approaching a $i_3$ $i_4$ $i_5$ $i_$	node. If $i_1$ =10 sin(400t+60°) A, and $i_2$ =10 sin (400t-			
	(a) 0	(b) 10 (sin400t) A			
	(c) -10 (sin400t) A	(d) $-5\sqrt{3}$ (3 sin400t) A			
		•			
72.	The number of independent KVL and KCL e respectively	equations for a network with n-nodes and l links are			
	(a) l and n	(b) $l$ and n-1			
	(c) n-1 and <i>l</i>	(d) n and <i>l</i> -1			
73.	A pole of driving point admittance function imp	olies			
	(a) zero current for a finite value of driving v	voltage			

(b) zero voltage for a finite value of driving current

	(c) an open circuit condition		
	(d) None of (a), (b) and (c) mentioned in the qu	estior	1
74.	For an ideal step-down (n:1) transformer, which on	ne of th	ne following is the ABCD parameter matrix?
	(a) $\begin{bmatrix} n & 1 \\ 1 & n \end{bmatrix}$	(b)	$\begin{bmatrix} n & 0 \\ 0 & n \end{bmatrix}$
	(c) $\begin{bmatrix} n & 0 \\ 0 & \frac{1}{n} \end{bmatrix}$	(d)	$\begin{bmatrix} n & \frac{1}{n} \\ \frac{1}{n} & 1 \end{bmatrix}$
<b>75</b> .	In a digital voltmeter, the oscillator frequency is 4 in 20 msec. The number of pulses countered by the		
	(a) 800		2000
	(c) 4000	(d)	8000
76.	In calibration of a dynamometer wattmeter by potential because	ention	neter, phantom loading arrangement is used
	(a) the arrangement gives accurate results		
	(b) the power consumed in calibration work is m	ninimu	m
	(c) the method gives quick results		
	(d) the onsite calibration is possible		
77.	Rectifier moving coil instruments respond to		
	(a) peak value, irrespective of the nature of the	wavef	Orm
	(b) average value, for all waveforms		
	(c) rms value for all waveforms		
	(d) rms value, for symmetrical square waveform	ıs	
<b>78.</b>	Galvanometer type recorders use		
	(a) vibration galvanometer	(b)	ballistic galvanometer
	(c) D'Arsonval galvanometer	(d)	tangent galvanometer
<b>79.</b>	Which one of the following has the highest accuracy	cy?	
	(a) Standard resistance	(b)	Standard inductance
	(c) Standard capacitance	(d)	Standard mutual inductance
80.	A 10 bit A/D converter is used to digitise an analogous peak ripple voltage that can be allowed in the DC		-
	(a) nearly 100 mV	(b)	nearly 50 mV
	(c) nearly 25 mV	(d)	nearly 5.0 mV
81.	In a permanent magnet moving coil instrument, if the a higher spring constant, then the natural frequency		
	(a) decrease	(b)	increase and decrease respectively
	(c) decrease and increase respectively	(d)	increase

(b) across the supply

**82.** The moving coil in a dynamometer wattmeter is connected

(a) in series with the fixed coil

	(c)	in series with the load	(d)	across the load
83.	The	capacitance and loss angle of a given capacito	r spe	cimen are best measured by
	(a)	Wheatstone bridge	(b)	Maxwell bridge
	(c)	Anderson bridge	(d)	Schering bridge
84.	The b	pattery cells in an electronic multimeter are req	uired	to measure which one of the following?
	(a)	Resistance	(b)	Voltage
	(c)	Current	(d)	Power
85.	The a	accuracy of Kelvin's double bridge for the me	asure	ement of low resistance is high because the
	bridg	ge		
	(a)	use two pairs of resistance arms		
	(b)	has medium value resistance in the ratio arms		
	` /	uses a low resistance link between standard a	and te	est resistances
	(d)	uses a null indicating galvanometer		
86.	Whic	ch of the following transducers is classified as a	an act	tive transducer?
	(a)	Metallic strain gauge	(b)	Capacitive microphone
	(c)	LVDT	(d)	Piezoelectric transducer
<b>87.</b>	The o	correct sequence of the blocks in an analog data	a acq	uisition unit starting from the input is
	(a)	Transducer-Recorder-Signal Conditioner	(b)	Transducer-Signal Conditioner-Recorder
	(c)	Signal Conditioner-Transducer-Recorder	(d)	Signal Conditioner-Recorder-Transducer
88.	Whic	ch one of the following digital voltmeters is mo	st sui	table to eliminate the effect of period noise?
	(a)	Ramp type digital voltmeter		
	(b)	Integrating type digital voltmeter		
	(c)	Successive approximation type digital voltme	ter	
	(d)	Servo type digital voltmeter		
89.	What	t one of the following decides the time of respo	nse o	f an indicating instrument?
	(a)	Deflecting system	(b)	Controlling system
	(c)	Damping system	(d)	Pivot and Jewel bearing
90.	A suc	ecessive approximation A/D converter has a res	oluti	on of 20 mV. What is its digital output for an
		og input of 2.17V?		
	` /	01101100	` ′	
	(c)	01101011	(d)	01110100
91.		heatstone bridge requires a change of 6 ohms		
		ge in deflection of 3 mm of the galvanometer. T		
		0.5 percent	` ′	2.0 percent
	. ,	0.5 mm/ohm	` /	
92.		oridge suitable for the measurement of an unkn	own	inductance in terms of a known capacitance
		d include  Mayyyall and Hayy	(1-)	Marrarall and Calcamina
		Maxwell and Hay Hays and Scherring	` ′	Maxwell Hay and Scherring
0.2	. ,	,	` /	Maxwell, Hay and Scherring
93.		ch amplifier is used in an electronic multimeter?		Duffer and life of
	(a)	Power amplifier	(D)	Buffer amplifier

(c)	Differential amplifier	(d)	Wideband amplifier
<b>94.</b> Whice	ch one of the following is used for the measure	ment	t of 3-phase power factor?
(a)	Power factor meter	(b)	Crossed-coil power factor meter
(c)	Phase-angle watt hour meter	(d)	Polarised-vane power factor meter
	lual slope integrating type digital voltmeter the fluid frequency of 50 Hz. If the reference voltage V is		-
(a)	0.01 sec	(b)	0.05 sec
(c)	0.1 sec	(d)	1 sec
<b>96.</b> Meas	surement of flow, thermal conductivity and liqu	id lev	vel using thermistors make use of
(a)	resistance decrease with temperature	(b)	resistance increase with temperature
(c)	self-heating phenomenon	(d)	change of resistivity
wave	ngle channel digital storage oscilloscope uses e input, what is the number of samples taken pe	er cyc	ele of input?
	$10^{12}$	( )	108
(c)	$10^4$	(d)	$10^{2}$
<b>98.</b> In a s	single-phase power factor meter, the controllin	g tor	que is
* *	provided by spring control	(b)	provided by gravity control
(c)	provided by stiffness of suspension	(d)	not required
<b>99.</b> For i	ncreasing the range of voltmeter, connect a		
` /	high value resistance in series with voltmeter		
` '	low value resistance in series with voltmeter		
	high value resistance in parallel with voltmeter		
(d)	low value resistance in parallel with voltmeter	•	
<b>100</b> . Which	n one of the following decides the precision of i	ntegr	rating digital voltmeter?
` '	Reference voltage of analog comparator	` /	Slope of the generated ramp
(c)	Width of the generated pulses	(d)	Electronic counter

\* \* \* \* \* \* \*