1.	A gas in normal state is almost a perfect	CO1	L2
	a. Conductor		
	b. Insulator		
	c. Semi-conductor		
2.	With respect to corona discharge , the dimension of sphere does not change the	CO1	L4
	breakdown voltage in:		
	Increasing D III Breakdown Cap spacing. d		
	a Parian I		
	a. Region I		
	b. Region II c. Region III		
3.	c. Region III Which Theory does not explain the mechanism for breakdown under different	CO1	L1
٥.	conditions?	001	L1
	a. Townsend's Theory		
	b. Streamer Theory		
	c. Clump's Theory		
4.	In elastic collisions are those in which internal changes in energy takes place within	CO1	L4
	an atom or a molecule at the expenes of total kinetic energy of the colliding particle.		
	Suitable example for inelastic collisions are		
	a. Ionization		
	b. Attachment		
	c. Excitation		
	d. All of these		
5.	AB + e + K> AB- + Ea + k The above equation is an	CO1	L2
	example of		
	a. Direct attachment		
	b. Dissociative attachment		
6.	AB + e + K> A + B- + Ea + k The above equation is an	CO1	L2
	example of		
	a. Direct attachment		
	b. Dissociative attachment	000	ļ.,
7.	The Townsend mechanism explains the phenomenon of breakdown	CO1	L1
	a. Only at low pressure		
	b. Only at high pressure		
	c. Only at very high pressure		
0	d. Only at very low pressure	CO1	11
8.	Liquid dielectrics are mainly used as	CO1	L1
	a. Impregnates in high voltage cables		<u> </u>

	b. In capacitors		
	c. For filling up transformers		
	d. All of these		
9.	Corona results in	CO1	L2
	a. improvement in power factors		
	b. increased capacitive reactance of transmission lines		
	c. radio interference		
	d. better regulation		
10.	In equipments with liquid dieletric, heat is transferred mainly by	CO1	L2
	a. Conduction		
	b. Convection		
	c. Radiation		
	d. No heat transfers takes place		
11.	Which is having higher breakdown strength?	CO2	L1
	a. Solid dielectrics		
	b. Liquid dielectrics		
	c. Gases dielectrics		
	d. Equal in all		
12.	Intrinsic Breakdown occurs in time of the order of	CO2	L1
	a. 10 ^(-5) s		
	b. 10 [^] (5) s		
	c. 10^(-8) s		
	d. 10 [^] (8) s		
13.	Within dielectric, an electron starting from the cathode will drift towards the anode	CO1	L4
	and during this motion		
	 Gains energy from the field and loses during collision 		
	 Gains energy during both motion and collision 		
	c. Loses energy during both motion and collision		
	d. Loses energy from the field and gains during collision		
14.	The breakdown phenomenon associated with a pure liquid dielectric is	CO1	L2
	a. Suspended particle theorem		
	b. Electroconvection Theorem		
	c. Bubble Theory		
15.	In case of commercial Liquid dieletric if £1 represents permittivity of solid suspended	CO1	L2
	particle and ε2 represents permittivity of liquid dielectric, then if		
	a. ε 1> ε 2, force directed towards a place of higher stress		
	b. ε1> ε2, force directed towards a place of lower stress		
16.	In case of commercial Liquid dieletric if £1 represents permittivity of solid suspended	CO1	L2
	particle and ε2 represents permittivity of liquid dielectric, then if		
	a. ε1<ε2, force directed towards a place of higher stress		
	b. ε1< ε2, force directed towards a place of lower stress		
17.	For liquid dielectric medium, the breakdown strength depends strongly on the	CO1	L2
	applied hydrostatic pressure.		
	a. Statement is TRUE		
	b. Statement is FALSE		
18.	The breakdown voltage of liquid dielectric is highly influenced by	CO1	L1
	a. the gas content in the oil		

	b. the viscosity of the oil		
	c. the presence of impurities		
	d. All of the above		
19.	With respect to liquid dielectric medium:	CO1	L4
	a. Higher the volume of stressed oil, lesser the breakdown strength		
	b. Higher the volume of stressed oil, higher the breakdown strength		
20.	With respect to pure liquid dieletric medium, reason for hydrostatic instability is	CO1	L4
20.	a. Coulombic forces between space charge		
	b. Electromechanical forces between molecules		
21.	With respect to pure liquid dieletric medium, breakdown occurs when	CO1	L4
21.	a. eddy motion is less compared to drift velocity of ions	1001	L4
	b. eddy motion is more compared to drift velocity of ions		
	b. eddy motion is more compared to differ verously or foris		
22.	With respect to solid dielectric medium, eletromechanical breakdown happens,	CO2	L4
22.	when	1002	
	a. electrostatic compressive forces exceeds mechanical compressive strength		
	b. mechanical compressive strength exceeds eletrostatic compressive forces		
23.	With respect to solid dielectric medium, heat dissipation happens through	CO2	L2
25.	a. Conduction	COZ	LZ
	b. Radiation		
	c. Convection		
	d. Convection and Radiation		
24	e. Radiation and Conduction	000	
24.	Thermal breakdown is more serious at high frequencies.	CO2	L4
	a. Statement is TRUE		
	b. Statement is FALSE		
25.	The breakdown voltage of a solid dielectric should increase with its thickness.	CO2	L4
	a. The statement is always TRUE		
	b. The statement is never TRUE		
	c. The statement is sometimes TRUE		
26.	Formative time lag depends on the mechanism of the avalanche growth in gap. The	CO1	L2
	formative time lag is usually		
	a. Much shorter than the statistical time lag		
	b. Much greater than the statistical time lag		
	c. Equal to the statistical time lag		
	d. None of these		
27.	The statistical time lag depends upon the	CO1	L2
	a. Quantity of radiation that produces the primary electrons		
	b. Amount of pre-ionization preset gap		
	c. Both the conditions		
28.	According to the Paschen's Law, the breakdown voltage of a uniform field gap is	CO1	L2
	a. Directly proportional to the gas pressure and inversely proportional to the		
	electrode gap		
	b. Inversely proportional to the gas pressure and directly proportional to the		
	electrode gap		
	c. Directly proportional to the both electrode gap and gas pressure		
	d. Inversely proportional to the both electrode gap and gas pressure		
L	atersery proportional to the both electrode Sup und Sus pressure		1

29.	In case of solid particles present in the liquid and in case of presence of only gas	CO2	L4
	bubbles in liquids, the direction of force is towards		
	a. Areas of maximum stress, areas of minimum stress		
	b. Areas of maximum stress, areas of maximum stress		
	c. Areas of minimum stress, areas of maximum stress		
	d. Areas of minimum stress, areas of minimum stress		
30.	According to the Bubble theory, once a bubble is formed, it will elongate in the	CO1	L4
	direction of electric field under the influence of electrostatic forces. During		
	elongation the volume of bubbles		
	a. Increases		
	b. Decreases		
	c. Remains constant		
	d. None of these		
31.	The breakdown voltage in gases depends on	CO1	L2
	a. distance between the electrodes		
	b. relative air density		
	c. humidity		
	d. all of the above		
32.	The phenomenon of corona is generally accompanied by	CO1	L1
	a. a bang		
	b. all of the above		
	c. magnetic hum		
	d. a hissing sound		
33.	Paschen's Law is associated with	CO1	L2
	a. breakdown voltage		
	b. ionization		
	c. thermal radiations		
	d. none of the above		
34.	A good dielectric should have all the following properties EXCEPT	CO1	L4
	a. high mechanical strength		
	b. high dielectric loss		
	c. freedom from gaseous indusions		
	d. high resistance to thermal deterioration		
35.	An electronegative gas is one which	CO1	L4
	a. Has high electron affinity		
	b. Has Low electron affinity		
36.	With respect to breakdown of eletronegative gases, Breakdown is possible	CO1	L4
00.	a. If attachment coefficient is less than Ionization coefficient		
	b. If attachment coefficient is more than lonization coefficient		
37.	For the high voltage conductors at high pressures, if the voltage is positive then the	CO1	L2
57.	corona appears as a	001	
	a. A Uniform bluish white sheath		
	b. Reddish glowing spots		
38.	c. Uniform greenish spots For the high voltage conductors at high pressures, if the voltage is positive then the	CO1	L2
38.		(01	LZ
	corona appears as a		
	a. A Uniform bluish white sheath		

	b. Reddish glowing spots through out the length of the wire		
39.	c. Uniform greenish spots Which of the following gas has been used as insulating medium in electrical	CO1	L1
33.	appliances	1001	-1
	a. Sulphur Hexafluoride		
	b. Carbon dioxide		
	c. Nitrgen		
40.	The electrical breakdown strength of insulating materials depends on	CO1	L2
	a. nature of applied voltage		
	b. imperfections in dielectric material		
	c. pressure, temperature and humidity		
	d. all of the above		
41.	Cascaded Transformer is used to measure	CO3	L1
	a. High current at power frequency		
	b. High voltage at power frequency		
	c. Impulse voltage		
	d. Impulse current		
42.	The drawback of cascaded transformer configuration is	CO3	L2
	a. Secondaries of lower stages transformers are overloaded		
	b. Primaries of lower stages transformers are overloaded		
	c. Secondaries of higher stages transformers are overloaded		
	d. Primaries of higher stages transformers are overloaded		
43.	The drawback of isolating transformer scheme of cascaded transform	CO3	L2
	a. Costly		
	b. less space requirement		
4.4	c. not compact	604	1.4
44.	Metastable partide is having life time	CO1	L1
	a. more than ordinary particle		
45	b. less than ordinary particle	601	1.1
45.	Streamer theory of breakdown a. Does not consider the modification of field due to space charge	CO1	L1
	a. Does not consider the modification of field due to space chargeb. Consider the modification of field due to space charge		
46.	•	CO1	L1
40.	Streamer theory is applicable when a. space charge density is more than 10^8	(01	-1
	b. space charge density is less than 10 ⁸		
47.	In calculation of equivalent leakage impedance of cascaded transformer	CO3	L2
ч,.	a. Contribution of primary impedance is maximum		
	b. Contribution of secondary impedance is maximum		
	c. Contribution of tertiary impedance is maximum		
48.	Corona inception voltage depend upon	CO1	L2
.0.	a. smoothness of electrode surface		
	b. air density factor		
	c. dimension of cable		
	d. All of the above		
49.	In an experiment in a certain gas it was found that the steady state current is	CO1	L3
	5.5x10^(-8) A at 8kV at a distance of 0.4cm between the plane electrodes. Keeping		
	the field constant and reducing the distance to 0.1 cm results in a current of		

	5.5x10^(-9) A. Value of Townsend's primary ionization coefficient is: a. 76.676 /cm.torr b. 7.676 /cm.torr		
50.	With respect to thermal break down, for electric field E2, breakdown is not possible in the range TA and TB. Heat generated Heat lost	CO3	L4
	a. The statement is TRUE		
	b. The statement is FALSE		