## Program: BE Electrical Engineering

# Curriculum Scheme: Revised - 2016

### Examination: Final Year Semester VII

# Course Code: EEDLO7031 and Course Name: High Voltage Engineering (HVE)

Time: 1-hour

Max. Marks: 50

Note to the students: - All the Questions are compulsory and carry equal marks.

Q1.	Maximum dielectric strength obtained with pure liquids is about	
Option A:	100 kV/mm	
Option B:	10 kV/mm	
Option C:	10000 kV/mm	
Option D:	50 kV/mm	
Q2.	Conduction and breakdown in commercial liquids is affected by	
Option A:	Solid particles only.	
Option B:	Vapor or air bubbles only.	
Option C:	Solid particles, vapor or air bubbles and electrode materials.	
Option D:	Gases only.	
Q3.	The parameters that affect the breakdown strength of liquids is	
Option A:	Hydrostatic pressure and temperature	
Option B:	Dissolved impurities	
Option C:	Dielectric constant	
Option D:	Pressure, temperature, dissolved impurities, and suspended particles.	
Q4.	Long – term deterioration and breakdown occur in solid dielectrics due to	
Option A:	Thermal phenomenon	
Option B:	Surface discharges	
Option C:	Internal discharges	
Option D:	Treeing phenomenon	
Q5.	The material used for insulation that is exposed to atmosphere is	
Option A:	Ceramic and glass	
Option B:	Polyester	
Option C:	Inorganic insulation	
Option D:	Rubber and plastic	
Q6.	For HV cables insulation, the materials used are	

Option A:	Glass and ceramic	
Option B:	Silicone rubber	
Option C:	XLPE	
Option D:	Paper-oil insulation	
Q7.	Impulse current generator output wave form is	
Option A:	Un-damped oscillatory wave only	
Option B:	Overdamped wave	
Option C:	Critically damped wave	
Option D:	Can be damped wave or damped oscillatory wave	
Q8.	Parallel resonant transformer test system is used when	
Option A:	Large test voltages are needed	
Option B:	Stable output voltage with high rate of rise of voltage is needed	
Option C:	Large current is needed	
Option D:	When high frequency test voltage is needed	
Q9.	In testing with a resonant transformer, the output voltage is	
Option A:	Rectangular wave	
Option B:	Triangular wave	
Option C:	Trapezoidal wave	
Option D:	Pure sine wave	
Q10.	To minimize the inductance in impulse current generator circuits	
Option A:	Capacitors are connected in parallel	
Option B:	Capacitors are subdivided into smaller units	
Option C:	Air core inductances are used in series	
Option D:	Discharge path is made into a rectangular path	
Q11.	According to Paschen's law, the minimum sparking potential of nitrogen is	
Option A:	327 V	
Option B:	420 V	
Option C:	251 V	
Option D:	137 V	
012	"The voltage gradient required to produce visual AC corona in air at a conductor	
Q12.	surface"	
Ontion A:	Corona incontion voltago	
Option R:	Corona broakdown voltago	
Option D:	Corona post breakdown voltage	
Option D:	Corona saturation voltage	
012	The limitations of Townsond's theony of breakdown in gaseous dielectric are	
Q13.	overcome in	
Option A:	Streamer's Theory	

Option C: Thermal breakdown theory   Option D: Stressed oil volume theory   Q14. For electrical insulation purposes, vacuum is used at   Option A: High pressure vacuum   Option D: Low pressure vacuum   Option D: Ultra-high-pressure vacuum   Option D: Ultra-high-pressure vacuum   Option A: Gains energy from the field and loses during collision   Option A: Gains energy during both motion and collision   Option B: Loses energy during both motion and collision   Option B: Gains energy during both motion and collision   Option B: Loses energy during both motion and collision   Option C: Loses energy during both motion and collision   Option B: Relative values of all resistor   Option B: Relative values of all resistor   Option C: Size of resistor   Option A: Solution of Laplace equation   Option B: Electrolytic tank method   Option A: Solution of Laplace equation   Option B: Electrolytic tank method   Option B: Field swhich are both bounded and unbounded   Option C: Field swhich are both bounded and unb	Option B:	Cavitation and bubble theory	
Option D:   Stressed oil volume theory     Q14.   For electrical insulation purposes, vacuum is used at     Option A:   High pressure vacuum     Option C:   Very high-pressure vacuum     Option D:   Ultra-high-pressure vacuum     Q15.   Within dielectric, an electron starting from the cathode will drift towards the anode and during this motion     Q15.   Within dielectric, an electron starting from the cathode will drift towards the anode and during this motion     Q160 D:   Loses energy from the field and loses during collision     Option A:   Gains energy form the field and gains during collision     Option D:   Loses energy from the field and gains during collision     Q161.   Potential dividers the output voltage depend upon the     Option A:   Single resistor     Option D:   Isse of resistor     Option D:   Moisture content     T   An experimental method for computing the field distribution is     Option A:   Solution of Laplace equation     Option B:   Electrolytic tank method     Option A:   Solution of Laplace equation     Option A:   Field swhich are bounded     Option A:   Field untensity	Option C:	Thermal breakdown theory	
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training and HV testing for the clients?		engineering colleges and universities to open facilities of regular teaching and	
		training and HV testing for the clients?	

Option A:	Small size laboratory	
Option B:	Medium size laboratory	
Option C:	Large size laboratory	
Option D:	UHV laboratory	
Q21.	A medium size laboratory is one that contains AC (power frequency) Test	
	equipment ofrating.	
Option A:	1 KVA to 10 KVA	
Option B:	0 KVA	
Option C:	100 KVA to 1000 KVA	
Option D:	More than 1000 KVA	
Q22.	In impulse testing of transformers fault location is usually done by	
Option A:	Neutral current oscillogram	
Option B:	Chopped wave oscillogram	
Option C:	Observing for noise or smoke	
Option D:	Scanning method	
Q23.	C- tan delta test on electric bushing is done using	
Option A:	Impulse generator	
Option B:	HV Schering bridge	
Option C:	Power frequency cascade transformer unit	
Option D:	Resonant transformer.	
Q24.	Most crucial test conducted on an isolator is	
Option A:	Open circuit test	
Option B:	Short circuit test	
Option C:	High current test	
Option D:	Temperature rise and pressure measurement tests	
Q25.	In C- tan delta test, a steep increase in tan delta, when the applied voltage	
	increases from 100% to 110% indicates	
Option A:	Insulation is failing	
Option B:	Presence of an internal discharge	
Option C:	Increase in relative permittivity	
Option D:	Decrease in insulation resistance	

## Program: BE Electrical Engineering

# Curriculum Scheme: Revised - 2016

### Examination: Final Year Semester VII

Course Code: EEDLO7031 and Course Name: High Voltage Engineering (HVE)

Time: 1-hour

Max. Marks: 50

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Question	Correct Option
	(Enter either 'A' or 'B' or 'C' or 'D')
Q1.	Α
Q2.	C
Q3.	D
Q4	с
Q5	А
Q6	D
Q7	D
Q8.	В
Q9.	D
Q10.	В
Q11.	С
Q12.	А
Q13.	А
Q14.	А
Q15.	А

Q16.	В
Q17.	В
Q18.	А
Q19.	В
Q20.	А
Q21.	С
Q22.	А
Q23.	В
Q24.	В
Q25.	В