## Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - - Electrical Installation, Maintenance, Testing Course Code - DEE602

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Mark only one oval.
Diploma in Pharmacy
Bachelor of Pharmacy
B.TECH.(CSE)
B.TECH.(ECE)
BCA
B.SC.(CS)
B.SC.(BT)
B.SC.(ANCS)
B.SC.(HN)
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BBA(HM)
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LLB
B.SC(IT)-AI
B.SC.(MSJ)
Bachelor of Physiotherapy
B.SC.(AM)
Dip.CSE
Dip.ECE
<u>DIP.EE</u>
DIP.CE

9.

. Each question carry one mark.
C motor depends on
ors

10.	2. Dielectric mineral oil is used in
	Mark only one oval.
	Small transformers
	Medium transformers
	Large transformers
	In all transformers
11.	3. Purpose of no-load test on a transformer is
	Mark only one oval.
	Copper loss
	Magnetising current
	Magnetising current and loss
	Efficiency of the transformer
12.	4. How many classifications of overhead line insulators are there?
	Mark only one oval.
	3
	4
	5
	<u> </u>

13.	5. What is the relation between surface of rotor and the operation?
	Mark only one oval.
	smooth surface leads to the quiet operation rough surface leads to the quiet operation smooth surface leads to the noisy operation rough surface leads to the noisy operation
14.	6.Which among these tests are included in high voltage tests  Mark only one oval.  Power wet test  Impulse voltage withstand test  Power frequency withstand test 1 minute dry  All of these
15.	7.The hunting in synchronous machines can be guarded against by  Mark only one oval.  Using a flywheel  Designing the synchronous machine with suitable synchronizing power  Damped bars  All of these

16.	8. On which of the following transformer, Buchholz's relay can be fixed on?
	Mark only one oval.
	Auto-transformers  Air-cooled transformers  Welding transformers  Oil cooled transformers
17.	9. How should the properties of strength and dielectric strength in insulating materials?
	Mark only one oval.
	High strength, low Dielectric strength  Low strength, low Dielectric strength  High strength, high Dielectric strength  Low strength, high Dielectric strength
18.	10. What is the relationship between current density, conductor area and resistance?
	Mark only one oval.
	higher the current density, higher the conductor area, higher the resistance
	higher the current density, higher the conductor area, lower the resistance
	higher the current density, lower the conductor area, higher the resistance
	lower the current density, lower the conductor area, lower the resistance

19.	11. Electrical hazards include shock, electrical arcs and blasts, and _or faulty equipment
	Mark only one oval.
	Broken
	Double-insulated
	Polished
	Secure
20.	12. Unbalanced -phase stator currents in an alternator cause
	Mark only one oval.
	Heating of rotor
	Vibrations
	Double frequency currents in the rotor
	All of these
21.	13. Function of conservator in an electrical transformer is
	Mark only one oval.
	Supply cooling oil to transformer in time of need
	Provide fresh air for cooling the transformer
	Protect the transformer from damage when oil expends due to heating
	Cannot be determined

22.	14. In the Transmission and Distribution sector, where should the insulators be placed?
	Mark only one oval.
	Between towers and poles
	Between towers and ground
	Between towers and conductors
	Between conductors and ground
23.	15. For a three phase induction motor, maximum torque is double the full load torque and starting torque is times the full load torque To get a full load slip of %, percentage reduction in the rotor resistance should be?
	Mark only one oval.
	0.627
	0.75
	0.6
	0.35
24.	16. Which wire is exposed to electric shock?
	Mark only one oval.
	Live
	Neutral
	Earth
	None of above

25.	1/. For same power rating, the higher voltage alternator is
	Mark only one oval.
	larger in size
	smaller in size
	cheaper
	costlier
26.	18. If a transformer is having equal number of turns at primary and secondary then transformer is called as
	Mark only one oval.
	Step-down
	Step-up
	One-one
	Autotransformer
27.	19. Identify the correct statement relating to the ideal transformer
	Mark only one oval.
	no losses and magnetic leakage
	interleaved primary and secondary windings
	a common core for its primary and secondary windings
	core of stainless steel and winding of pure copper metal

28.	20. The neutral of the three phase MVA, kV alternator is earthed through a resistance of ohms, the relay is set to operate when there is an out of balance current of A The CTs have a ratio of / What should be the minimum value of the earthing resistance to protect % of winding?
	Mark only one oval.
	2.12 Ω
	1.12 Ω
	4.24 Ω
	3.24 Ω
29.	21. In a synchronous alternator, the frequency f in Hz is given by
	Mark only one oval.
	f = PN/120
	$\int f = PN/60$
	f = P/60N
	f = N/60P
30.	22. Function of transformer is to
	Mark only one oval.
	Convert AC to DC
	Convert DC to AC
	Step down or up the DC voltages and currents
	Step down or up the AC voltages and currents

31.	23. Third harmonic current in transformer at no-load is
	Mark only one oval.
	3% of exciting current
	10% of exciting current
	25% of exciting current
	35% of exciting current
22	
32.	24. How should the permeability and number of ampere turns for good magnetic materials be?
	Mark only one oval.
	high permeability, high ampere turns
	high permeability, low ampere turns
	low permeability, low ampere turns
	low permeability, high ampere turns
33.	25. What is the value of the ratio of the core length to pole pitch for good efficiency?
	Mark only one oval.
	1
	1.5
	2
	3

34.	26.Two identical alternators having impedances Z and Z are connected in parallel produces E and E as their induced emf's if no load is connected to the alternators then a circulating current will flow in the circuit This current is given by <i>Mark only one oval.</i>
	E1 + E2 / Z1 - Z2
	E1 - E2 / Z1 + Z2
	E2 - E1 / Z1 + Z2
	E1 + E2 / Z1 + Z2
35.	27. Transformer core is designed to reduce
	Mark only one oval.
	Hysteresis loss
	Eddy current loss
	Hysteresis loss and Eddy current loss
	Cannot be determined
36.	28. No-load current in a transformer
	Mark only one oval.
	Lags behind the voltage by about 75°

Leads the voltage by about 75°

Leads the voltage by about 15°

Lags behind the voltage by about 15°

37.	29. How many types of electrical insulators are present on the basis of voltage application?
	Mark only one oval.
	4
	5
38.	30. What is the relation between clearances and slots?
	Mark only one oval.
	high clearances are provided for salient slots
	low clearances are provided for skewed slots
	low clearances are provided for salient slots
	high clearances are provided for skewed slots
39.	31. A DC series motor
	Mark only one oval.
	Should always be started on load
	Always runs at constant speed
	Is not suitable for high starting torque
	May 'run away' if the field gets opened

40.	32. One turn consists of
	Mark only one oval.
	Three coil sides Two conductors
	Four conductors
	Four coil sides
41.	33. Buchholz's relay will give warning and protection against
	Mark only one oval.
	Electrical fault inside the transformer itself
	Electrical fault outside the transformer in outgoing feeder
	For both outside and inside faults
	Cannot be determined
42.	34. What is the dielectric strength of porcelain insulators?
	Mark only one oval.
	60 kV/cm
	140 kV/cm
	50 kV/cm
	40 kV/cm
	10 107,011

43.	35. What is the range of current density in rotor bars?
	Mark only one oval.
	4-9 A per mm2
	4-6 A per mm2
	4-7 A per mm2
	5-6 A per mm2
44.	36. One of the three generally recognized hazards of electrical work is
	Mark only one oval.
	Arc Flash
	Cuts
	Falls
	Concussion
45.	37. Permissible variation in supply frequency of alternators is
	Mark only one oval.
	± 1%
	± 2%
	<u>± 4%</u>
	<u>±</u> 6%

46.	38. What is the main cause for the failure of overhead line insulators?
	Mark only one oval.
	Surges
	Flashover
	Arching
	Grounding
47.	39. What is the function of spacers?
47.	37. What is the function of spacers:
	Mark only one oval.
	To insulate the coils from each other
	To provide free passage to the cooling oil
	To insulate coils and provide free passage
	Cannot be determined
48.	40. A -phase, Hz, -pole induction motor has a shaft output of kW at rpm Friction and windage losses is % of the output Total stator losses is W What is the rotor input?
	Mark only one oval.
	10860 W
	10100 W
	11460 W
	11000 W

49.	41. What is the resistance of human body?
	Mark only one oval.
	10 to 50 Kohm
	100 to 500 Kohm
	10 to 50 Mohm
	100 to 500 Mohm
50.	42. The maximum current that can be supplied by an alternator depends on
	Mark only one oval.
	Number of poles
	Speed of the exciter
	Exciter current
	Strength of the magnetic field
<b>E</b> 1	43. One to one transformers are used because
51.	43. One to one transformers are used because
	Mark only one oval.
	To isolate any part of circuit electrically
	To get more voltage at secondary
	To get less voltage at secondary
	To reduce losses, present in circuit

52.	44. An ideal transformer will have maximum efficiency at a load such that
	Mark only one oval.
	copper loss = iron loss
	copper loss < iron loss
	copper loss > iron loss
	cannot be determined
53.	45. If a transformer is provided with differentially connected relay To prevent the mal operation of the relay, the relay relay operating coil is biased with
	Mark only one oval.
	3rd harmonic
	2nd harmonic
	7th harmonic
	5th harmonic
54.	46. If an alternator is operating at a leading power factor, its voltage regulation is
	Mark only one oval.
	more than one
	equal to zero
	negative
	none of these

55.	47. Which winding has more number of turns?
	Mark only one oval.
	Low voltage winding  High voltage winding  Primary winding  Secondary winding
56.	48. A transformer cannot work on the DC supply because  Mark only one oval.
	There is no need to change the DC voltage  A DC circuit has more losses  Faraday's laws of electromagnetic induction are not valid since the rate of change of flux is zero  Cannot be determined
57.	49. A three phase transformer having a line voltage ratio of / V is connected in the star-delta The CTs on the V side have a CT ratio of / What must be the ratio of CTs on the side?  Mark only one oval.  7/5  5/7  3/5  5/2

58.	50. What is the relation between motors and ratio of core length to pole pitch?
	Mark only one oval.
	for small motors high ratio is preferred  for big motors high ratio is preferred
	for small motors small ratio is preferred
	for big motors small ratio is preferred
59.	51. The change in excitation of the two alternators operating in parallel causes
	Mark only one oval.
	Only the kVAR sharing of two alternators without disturbing kW sharing of the two machines
	Only the kW sharing of two alternators without disturbing kVAR sharing of the two machines
	Both the kVAR sharing and kW sharing of two alternators
	None of the above
60.	52. Which transformer insulation material is best compare to Kraft paper?
	Mark only one oval.
	Oil
	Asbestos
	Low grade pressboard
	Cotton

61.	53. Maximum value of flux established in a transformer on load is equal to
	Mark only one oval.
	E1/ (4.44*f*N1)
	E1/ (4.44*f*N2)
	E2/ (4.44*f*N1)
	Cannot define
62.	54. Which class has the lowest and the highest temperature?
	Mark only one oval.
	Class Y, Class C
	Class Y, Class H
	Class H, Class C
	Class B, Class H
63.	55. What is the range of clearance that can be left between rotor bars and the core?
	Mark only one oval.
	0.1-0.4 mm
	0.2-0.4 mm
	0.15-0.4 mm
	0.4-0.6 mm

64.	56. What data is provided from the no load test on induction motors?
	Mark only one oval.
	Core loss only
	Magnetsing current
	No load power factor
	All of these
65.	57. The regulating of an alternator is
	Mark only one oval.
	The reduction in terminal voltage when alternator is loaded
	The variation of terminal voltage under the conditions of maximum and minimum excitation
	The increase in terminal voltage when load is thrown off
	The change in terminal voltage from lagging power factor to leading power factor.
66.	58. What is the function of breather in a transformer?
	Mark only one oval.
	To provide oxygen inside the tank
	To cool the coils during reduced load
	To cool the transformer oil
	To arrest flow of moisture when outside air enters the transformer

6/.	59. What is the dielectric strength, coefficient of thermal expansion of glass with respect to porcelain insulators?
	Mark only one oval.
	High, high
	High, low
	Low, low
	Low, high
68.	60. What is the relation of closed slots with leakage reactance
	Mark only one oval.
	closed slots give no leakage reactance
	closed slots give high leakage reactance
	closed slots give low leakage reactance
	closed slots give negative leakage reactance
69.	61. Swinburne's test and brake tests
05.	
	Mark only one oval.
	Both are direct method of testing
	Direct method of testing, indirect method of testing
	Indirect method of testing, direct method of testing
	Both are indirect method of testing

70.	62. For zero factor leading, the effect of armature reaction in an alternator on the main flux is
	Mark only one oval.
	Magnetizing
	Demagnetizing
	Cross-magnetizing
	None of these
71.	63. Which chemical is used in breather?
	Mark only one oval.
	Asbestos fibre
	Demagnetizing
	Cross-magnetizing
	None of these
72.	64. What happens when some serious phenomenon occurs in the insulators?
	Mark only one oval.
	Puncher is produced in the insulator body
	Insulator body bulges
	Insulator body bursts
	Insulator body tears apart

/3.	65. A -phase, Hz, -pole induction motor has a shaft output of kW at rpm Friction and windage losses is % of the output Total stator losses is W What is the stator input?
	Mark only one oval.
	10860 W
	10100 W
	11460 W
	11000 W
74.	66. How much electricity shock cause death passing through body?
	Mark only one oval.
	10 mA
	20 mA
	50 mA
	100 mA
75.	67. In alternators, the distribution factor is defined as the ratio of emfs of
	Mark only one oval.
	Concentrated winding to distributed winding
	Distributed winding to full pitch winding
	Full pitch winding to distributed winding
	Distributed winding to concentrated winding

70.	68. Sandwiched type of winding is used in
	Mark only one oval.
	In all transformers
	In core type transformers
	In shell type transformers
	In all transformers except shell and core type transformers
77.	69. What is the property of insulating materials?
	Mark only one oval.
	Prevents the unwanted flow of current
	Allows the unwanted flow of current
	Increases the unwanted flow of current
	Decreases the unwanted flow of current
78.	70. The frequency of the carrier in the case of carrier-current-pilot scheme is in the range of
	Mark only one oval.
	50 kHz-500 kHz
	1 kHz-10 kHz
	25 kHz-50 kHz
	15 kHz-25kHz

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