

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

Course Name - Transmission and Distribution of power

Course Code -DEE403

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Answer all the questions. Each question carry one mark.

9. 1.Regulation of short transmission lines depends

Mark only one oval.

- Only on line resistance
- Only on line inductance
- Only on line capacitance
- On line inductance and line resistance

10. 2.Series and shunt capacitance.

Mark only one oval.

- Surface leakage currents.
- Series capacitance
- Shunt capacitance to ground.
- Series and shunt capacitance

11. 3.Skin effect in a conductor is proportional to

Mark only one oval.

- (Diameter of conductor)^{1/2}
- Diameter of conductor.
- (Diameter of conductor)²
- .(Diameter of conductor)⁴

12. 4.For what voltage is Twin conductor bundle used in India?

Mark only one oval.

- 220 kV
- 500 kV
- 750 kV
- 330 kV

13. 5.Which of the following materials are not used for the transmission and distribution of electrical power?

Mark only one oval.

- Copper
- Aluminum
- Tungsten
- Steel

14. 6.What is the maximum voltage level upto which the pin type insulators can be used?

Mark only one oval.

- 22 kV
- 33 kV
- 66 kV
- 132 kV

15. 7.What are the line constants in a transmission line

Mark only one oval.

- Resistance and series conductance only.
- .Series and shunt conductance.
- Resistance, inductance and capacitance
- Resistance, inductance, capacitance and shunt conductance

16. 8.The string efficiency of a high voltage line is around

Mark only one oval.

0.8

1

0.4

0.1

17. 9.Which of the following statements is true? Corona loss increases with

Mark only one oval.

decrease in conductor size and decrease in supply frequency

increase in conductor size and decrease in supply frequency

decrease in conductor size and increase in supply frequency

increase in conductor size and increase in supply frequency

18. 10.Transmission line insulators are made of

Mark only one oval.

Porcelain

Glass

Composite Polymer

Any of the above

19. 11. Conductor sag should be kept

Mark only one oval.

- Minimum
- Maximum
- Zero.
- None of these.

20. 12. In which climate does the chances of occurrence of corona is maximum

Mark only one oval.

- Dry
- Hot summer
- Winter
- Humid.

21. 13. Single bus-bar arrangement in substations is used for voltage is less than.....

Mark only one oval.

- 11 KV
- 33 KV
- 132 KV
- 220 KV

22. 14. In a transmission line the insulators to be used at the dead end or sharp curves are

Mark only one oval.

- pin type insulator
- strain type
- suspension type
- any of the above

23. 15. Overhead lines generally use

Mark only one oval.

- A.C.S.R. conductors
- Copper conductors
- Aluminum conductors
- Any of the above

24. 16. Which of the following protects a cable against mechanical injury?

Mark only one oval.

- Bedding
- Sheath
- Armouring
- None of the above

25. 17.Which gas is formed near to the conductors by producing a hissing noise?

Mark only one oval.

- Oxygen
- Ozone
- .Hydrogen
- Nitrogen.

26. 18.What is the effect of temperature rise on the over head lines?

Mark only one oval.

- Increase the sag and decrease the tension.
- . Decrease the sag and increase the tension
- Both increases
- Both decreases

27. 19.Corona is accompanied by

Mark only one oval.

- violet visible light
- hissing sound
- power loss and interference
- all of the above

28. 20.The conductors of the overhead lines are

Mark only one oval.

- Stranded conductors
- Solid conductors
- Both solid and stranded
- None of the above

29. 21.What is the value of the charging current flowing to earth in medium transmission line

Mark only one oval.

- Very high
- Medium
- Negligible
- No capacitance

30. 22.What is the purpose of guard ring?

Mark only one oval.

- Reduce the earth capacitance of the lowest unit
- Increase the earth capacitance of the lowest unit.
- Reduce the transmission line losses
- None of these.

31. 23. Apart from the skin effect the phenomena which cause/s the non uniform distribution of the current is _____

Mark only one oval.

- Proximity effect
- Faraday's effect
- Ferranti effect
- All of the mentioned

32. 24. What is the desired safety factor prescribed for the pin type of insulators?

Mark only one oval.

- 5
- 13
- 10
- 2

33. 25. The operating voltage of the super tension cable is

Mark only one oval.

- 1 – 11 kV
- 11 – 33 kV
- 33 – 66 kV
- Above 66 kV

34. 26.Voltage regulation of a transmission line should be

Mark only one oval.

- Minimum
- Maximum
- Greater than 50 %
- Less than 50 %

35. 27.The maximum voltage of the disc type insulators is at

Mark only one oval.

- Same at all points
- Near the tower or starting of the insulator
- Near to the conductors
- None of these.

36. 28.Skin effect is negligible for what supply frequency and for what diameter?

Mark only one oval.

- < 50 Hz and < 1 cm.
- < 50 Hz and > 1 cm
- > 50 Hz and < 1 cm.
- .> 50 Hz and > 1 cm.

37. 29. Which type of dc link, all conductors have negative polarity

Mark only one oval.

- Homopolar
- Monopolar
- Bipolar
- None

38. 30. The usual spans with R.C.C. poles are

Mark only one oval.

- 40–50 metres
- 60–100 metres
- 200 – 300 meters
- 80 – 150 meters

39. 31. These insulators are provided on which type of plane?

Mark only one oval.

- Vertical plane
- Horizontal plane.
- On the surface.
- All of these.

40. 32.The factors does the skin effect depend upon?

Mark only one oval.

- Cross section of the conductors
- Supply frequency.
- Permeability of the conductor.
- All of these

41. 33.Cross section of the conductorsSupply frequency.Permeability of the conductor.All of these

Mark only one oval.

- Provides emergency earth route.
- Protects against the surges
- Supports the pole
- All of these.

42. 34.Which of the following statements is/are true? Due to corona,

Mark only one oval.

- interference increases
- power loss increases
- charging current increases
- all of the above

43. 35.The material commonly used for sheaths of underground cables is

Mark only one oval.

- Lead
- Rubber
- Copper
- Iron

44. 36.Safety factor is the ratio of

Mark only one oval.

- Working stress to breaking stress
- Breaking stress to working stress.
- 1 / breaking stress.
- 1 / working stress.

45. 37.What is the effect on corona, if the spacing between the conductors is increased

Mark only one oval.

- Corona increases
- Corona is absent.
- Corona decreases
- None of these

46. 38.For 66 kV lines the number of insulator discs of each 11 kV used are

Mark only one oval.

6

5

3

12

47. 39.The material generally used for the armour of high voltage cables is

Mark only one oval.

Copper

Brass

Aluminum

Steel

48. 40.Low tension cables are generally used up to

Mark only one oval.

200 V

500 V

700 V

1000 V

49. 41.Which harmonics are generated during the corona, which leads to the increase in corona losses?

Mark only one oval.

- Third harmonics
- Fifth harmonics.
- Seventh harmonics.
- None of these

50. 42.Pole mounted sub stations are used for Distribution

Mark only one oval.

- Primary
- Secondary
- Both1 and2
- None of the above

51. 43.By using guard ring in a transmission line, its string efficiency

Mark only one oval.

- increase
- decrease
- remains unaffected
- none of the above

52. 44.High voltage transmission lines use

Mark only one oval.

- Suspension insulators
- Pin insulators
- Any of the above
- None of the above

53. 45.The bedding on a cable consists of

Mark only one oval.

- Hessian cloth
- Jute
- Any of the above
- None of the above

54. 46.The insulators fail due to

Mark only one oval.

- Flash over
- . Short circuits.
- Sparking between the lines
- None of these.

55. 47. Flash over. Short circuits. Sparking between the lines. None of these.

Mark only one oval.

- Flash over
- . Short circuits.
- Sparking between the lines
- None of these.

56. 48. What is the safety factor of an insulator?

Mark only one oval.

- Puncture strength * Flash overvoltage.
- Puncture strength / Flash overvoltage.
- Flash over-voltage / Puncture strength.
- None of these.

57. 49. Which of the following D.C. distribution system is the simplest and lowest in first cost?

Mark only one oval.

- Radial system
- Inter-connected system
- Ring system
- All of the Above

58. 50.Radial systemInter-connected systemRing systemAll of the Above

Mark only one oval.

- Series RLC circuit
- Parallel RLC circuit
- Series RL circuit
- Parallel RL circuit

59. 51.The maximum voltage of the disc type insulators is a

Mark only one oval.

- Same at all points
- Near the tower or starting of the insulator.
- . Near to the conductors.
- None of these.

60. 52.The current distribution may not be uniform in a conductor, which effect is this?

Mark only one oval.

- Skin effect
- Proximity effect.
- Ferranti effect.
- None of these

61. 53.The number of discs in a string of insulators for 400 kV ac over head transmission line lies in the range of

Mark only one oval.

- 32 – 33
- 22 – 23
- 15 – 16
- 9 – 10

62. 54.Which of the following are the constants of the transmission lines?

Mark only one oval.

- Inductance
- Capacitance
- Resistance
- All of the above

63. 55.What is the value of charging current in short transmission lines?

Mark only one oval.

- Less than medium transmission lines
- Equal to medium transmission lines
- More than medium transmission lines
- More than long transmission lines

64. 56.Which type of insulators is mainly used for low voltage overhead lines?

Mark only one oval.

- Pin type.
- Shackle type
- Suspension type.
- Stay insulators

65. 57.By using which conductor is the skin effect reduced?

Mark only one oval.

- Bundled conductors.
- Stranded conductors
- Hollow conductors.
- Solid conductors

66. 58.In short transmission lines capacitive current is

Mark only one oval.

- Less than short transmission lines
- Equal to short transmission lines
- More than short transmission lines
- More than long transmission lines

67. 59.Name the cable or conductor which connects the distributor to the consumer terminals.

Mark only one oval.

- Service Mains
- Distributor
- Feeders
- None of the above

68. 60.Which type of insulator is used on 132 kV transmission lines?

Mark only one oval.

- Pin type
- Disc type.
- Shackle type.
- Pin and shackle type

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