Online Assessment (Even Sem/Part-I/Part-II Special Examinations of Intermediate semester 2019 - 2020

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. Which of the following is like equivalent circuit of short transmission line?

Mark only one oval.

- Series RLC circuit
- RLC circuit in pie form
- Series RL circuit
- Parallel RL circuit

10. 2. Steel poles are painted so as to prevent it from

Mark only one oval.

- Corrosion
- Borer
- Termites.
- All of these

11. 3.Extra High tension cables are generally used up to

Mark only one oval.

- 11 kV
- 33 kV
- 66 kV
- 132 kV

12. 4. Which of the following is correct operating voltage range for long transmission lines.

Mark only one oval.

- More than 765 KV
- More than 400 KV
- More than 20 KV
- More than 132 KV

13. 5. The maximum tension in a section of overhead line conductor between two supports of unequal height occurs at

Mark only one oval.

- The lower support
- The higher support
- Midpoint of the conductors.
- None of these

14. 6. Which of the following statements are true related to corona?

Mark only one oval.

- ◯ It causes power loss.
- ◯ It attenuates lightning surges
- ◯ It causes radio interference
- ◯ It amplifies switching surges

15. 7. Where is the strain type insulators used?

Mark only one oval.

- ◯ At dead ends
- ◯ At any intermediate anchor tower
- ◯ On straight runs
- ◯ Either (At dead ends) or (At any intermediate anchor tower

16. 8. Which shielding is called the static shielding of the string?

Mark only one oval.

- ◯ Using the guard rings
- ◯ Grading the insulators
- ◯ Increasing the length of cross arms
- ◯ None of these

17. 9. These insulators are provided on which type of plane?

Mark only one oval.

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

18. 10. What is the minimum safety factor in respect of the conductor tension?

Mark only one oval.

- 2
- 3
- 1
- 1.5

19. 11. Corona is observed on

Mark only one oval.

- AC transmissions only.
- DC transmissions only
- AC and DC transmissions.
- None of these

20. 12. If the diameter of the conductor is increased then _____

Mark only one oval.

- inductance increases
- inductance remains unaltered
- inductance decreases
- inductance can't be determined

21. 13. Proximity effect

Mark only one oval.

- Is more in large conductors, high frequency
- Increases the resistance of the conductor
- Reduces the self reactance.
- All of these

22. 14. Why are bundled conductors employed?

Mark only one oval.

- Appearance of the transmission line is improved
- Mechanical stability of the line is improved
- Improves current carrying capacity
- Improves the corona performance of the line

23. 15. What is the use of bundled conductors?

Mark only one oval.

- Reduces surface electric stress of conductor
- Increases the line reactance
- Decreases the line capacitance
- None of these

24. 16. What is the usual span of the RCC poles?

Mark only one oval.

- 250 – 400 m
- 80 – 150 m
- 50 – 105 m
- 10 – 75 m

25. 17. The phenomenon due to which there is an induced current in one coil due to the current in a neighbouring coil is?

Mark only one oval.

- Mutual inductance
- Steady current
- Electromagnetism
- Susceptance

26. 18. Uneven level Sag in transmission line depends on which factor?

Mark only one oval.

- Weight of the conductors
- Span length
- Tension in the conductors
- All of these

27. 19. What is the value of working stress in overhead conductors?

Mark only one oval.

- Less than ultimate stress
- More than ultimate stress
- Always equal to ultimate stress
- Should be zero

28. 20. The voltage rating of the transformer in a pole-mounted Sub Station is.....

Mark only one oval.

- 11 KV / 400 V
- 11 KV / 240 V
- 33 KV / 400 V
- None of these

29. 21. What is the safety factor of an insulator?

Mark only one oval.

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

30. 22. Which of the following methods is used for laying of underground cables?

Mark only one oval.

- Direct laying
- Solid system
- Draw-in-system
- All of these

31. 23. High voltage transmission lines use

Mark only one oval.

- Suspension insulators
- Pin insulators
- Any of these
- None of these

32. 24.Bundled conductors in EHV transmission lines help in

Mark only one oval.

- Decrease capacitance
- Decrease Inductance
- Increase capacitance
- Increase inductance

33. 25. The phenomenon of rising in voltage at the receiving end of the open-circuited or lightly loaded line is called as

Mark only one oval.

- Roman Effect
- Skin Effect
- Corona Effect
- Ferranti Effect

34. 26. The fact that current density is higher at the surface when compared to centre is known as

Mark only one oval.

- Proximity effect
- Skin effect
- Corona effect
- None of these

35. 27. What is the main purpose for guy wire?

Mark only one oval.

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

36. 28. 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

37. 29. Voltage regulation in the power system is _____

Mark only one oval.

- rise in voltage at receiving end
- depend in voltage at receiving end
- rise in voltage
- independent in voltage at sending end

38. 30. Mutual inductance between two magnetically coupled coils depends on

Mark only one oval.

- Permeability of the core material
- Number of turns of the coils
- Cross sectional area of their common core
- All of these