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

Course Name - Electrical Technology
Course Code - DCSE/DECE206/DEE206/DME206/DCE206

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○ Bachelor of Pharmacy

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○ B.SC.(BT)

○ B.SC.(ANCS)

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○ B.Sc.(MM)

○ B.A.(MW)

○ BBA

○ [B.COM](#)

○ B.A.(JMC)

○ BBA(HM)

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○ B.OPTOMETRY

○ B.SC.(MB)

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○ B.SC.(MRIT)

○ B.SC.(PA)

○ LLB

○ PGDHM

○ Dip.CSE

○ Dip.ECE

○ Dip.EE

○ Dip.CE

○ Dip.ME

○ MCA

○ M.SC.(CS)

◯ M.SC.(ANCS)

◯ M.SC.(MM)

◯ MBA

◯ M.SC.(BT)

◯ M.TECH(CSE)

◯ LLM

◯ M.A.(JMC)

◯ M.A.(ENG)

◯ M.SC.(MATH)

◯ M.SC.(MB)

Answer all the questions. Each question carry one mark.

9. 1. KVL can be applied at

Mark only one oval.

◯ Loop

◯ Node

◯ Both loop and node

◯ Neither loop nor node

10. 2. Unit of capacitance is

Mark only one oval.

◯ Mho

◯ Ohm

◯ Farad

◯ Henry

11. 3. How many coulombs of charge flow through a circuit carrying a current of 10 A in 1 minute?

Mark only one oval.

   ⬭ 10

   ⬭ 60

   ⬭ 600

   ⬭ 1200

12. 4. Delta connection is also known as_____

Mark only one oval.

   ⬭ Y-connection

   ⬭ Mesh connection

   ⬭ Either Y-connection or mesh connection

   ⬭ Neither Y-connection nor mesh connection

13. 5. Which of the following is not an expression power?

Mark only one oval.

   ⬭ P=VI

   ⬭ P=I^2R

   ⬭ P=V^2/R

   ⬭ P=I/R

14.   6. A 250V bulb passes a current of 0.1A. Calculate the power in the lamp.

Mark only one oval.

◯ 75 W

◯ 50 W

◯ 25 W

◯ 90 W

15.   7. The SI unit of power is?

Mark only one oval.

◯ kW(kilo-watt)

◯ J/s(joules per second)

◯ Ws(watt-second)

◯ J/h(joules per hour)

16.   8. The power factor of an Resonance R–L–C circuit is

Mark only one oval.

◯ often zero

◯ between zero and 1

◯ always unity

◯ between zero and -1

17.   9. The voltage applied across an R-L circuit is equal to ___ of VR and VL .

Mark only one oval.

⬭ arithmetic sum

⬭ algebraic sum

⬭ phasor sum

⬭ sum of the squares

18.   10. Quality factor-Q of a resonant circuit signifies:

Mark only one oval.

⬭ Loss in the resonant circuit

⬭ Gain in the resonant circuit

⬭ Magnetic energy stored in the circuit

⬭ Electric energy stored in the circuit

19.   11. At resonance, the circuit appears _____.

Mark only one oval.

⬭ Inductive

⬭ Capacitive

⬭ Resistive

⬭ Either inductive or capacitive

20.   12. The form factor is the ratio of

Mark only one oval.

    ◯ Peak value to r.m.s. value

    ◯ r.m.s. value to average value

    ◯ Average value to r.m.s. value

    ◯ None of these

21.   13. Fleming's right hand rule may be applied to

Mark only one oval.

    ◯ Motor

    ◯ Generator

    ◯ Transformer

    ◯ All of these

22.   14. For a coil having a magnetic circuit of constant reluctance, the flux is _____ to the current.

Mark only one oval.

    ◯ Directly proportional

    ◯ Inversely proportional

    ◯ Not related

    ◯ Very large compared to

23.　　15. Identify which of the following is the unit of magnetic flux?

Mark only one oval.

◯ Weber

◯ Weber/m

◯ Tesla

◯ Weber-1

24.　　16. A magnetic field exists around

Mark only one oval.

◯ iron

◯ copper

◯ aluminium

◯ moving charges

25.　　17. Distributors fed at both ends has an advantage of _____.

Mark only one oval.

◯ continuous supply

◯ fault isolation

◯ being economical

◯ all of the mentioned

26.   18. The rated voltage of a 3 phase power system is given by

Mark only one oval.

⬭ rms peak voltage

⬭ rms line to line voltage

⬭ Peak phase voltage

⬭ Peak line to line voltage

27.   19. Full form of MCB

Mark only one oval.

⬭ Miniature Circuit Breaker

⬭ Mini Circuit Breaker

⬭ Minimum Current Breaker

⬭ Maximum Current Breaker

28.   20. A DC generator without commutator is a

Mark only one oval.

⬭ AC generator

⬭ DC motor

⬭ DC generator

⬭ induction motor

29.   21. The motor ratings are usually expressed in.......

Mark only one oval.

◯ Volts

◯ Amperes

◯ Kw

◯ KVA

30.   22. Turns ratio of the transformer is inversely proportional to _____

Mark only one oval.

◯ Resistance ratio

◯ Frequency ratio

◯ Current ratio

◯ Not proportional to any terms

31.   23. One telsa is equal to

Mark only one oval.

◯ 1 Wb/mm2

◯ 1 Wb/m

◯ 1 Wb/m2

◯ 1 mWb/m2

32. 24. Reciprocal of permeability is

Mark only one oval.

○ reluctivity

○ permittivity

○ susceptibility

○ conductance

33. 25. In the left hand rule, forefinger always represents

Mark only one oval.

○ voltage

○ current

○ magnetic field

○ direction of force on the conductor

34. 26. Circuit breakers work

Mark only one oval.

○ constantly

○ only once

○ when there is resistance

○ when there is magnetic field

35. 27. The internal resistance of an ideal voltmeter will be

Mark only one oval.

◯ Infinity

◯ Zero

◯ Very small

◯ large

36. 28. The fuse rating is expressed in terms of

Mark only one oval.

◯ current

◯ voltage

◯ VAR

◯ kVA

37. 29. Full form of ELCB

Mark only one oval.

◯ Earth-leakage Circuit Breaker

◯ Earth-leak Circuit Breaker

◯ Earth-lag circuit Breaker

◯ Earth-lead Circuit Breaker

38. 30. The materials with permeability less than unity are called

Mark only one oval.

- ◯ Diamagnetic materials
- ◯ Paramagnetic materials
- ◯ Ferromagnetic materials
- ◯ Anti ferromagnetic materials