Basic Electrical Engineering (18ELE23): IAT 3

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* Required

1. Email *

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2. NAME *

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Untitled Section

3. USN *

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4. SECTION *

   Mark only one oval.

   ◯ I

   ◯ J

   ◯ K

   ◯ L

   ◯ M

   ◯ N

   ◯ O

QUESTIONS

5.   A transformer core is laminated to reduce *

Mark only one oval.

⬭ hysteresis loss

⬭ eddy current loss

⬭ leakage reactance

⬭ all of the above

6.   The transformer efficiency is maximum when *

Mark only one oval.

⬭ Pi > Pcu

⬭ Pi < Pcu

⬭ Pi = Pcu

⬭ none of these

7.   Transformation ratio of a transformer is equal to *

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⬭ E1/E2

⬭ N1/N2

⬭ N2/N1

⬭ I2/I1

8. In a step up transformer, the following remains constant *

    Mark only one oval.

    ◯ voltage

    ◯ current

    ◯ power

    ◯ none of these

9. For 400 V/ 100 V transformer, the secondary turns are 16, then the primary turns are
    *

    Mark only one oval.

    ◯ 4

    ◯ 64

    ◯ 16

    ◯ 8

10. Which loss is variable in a transfomer ? *

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    ◯ eddy current

    ◯ copper

    ◯ hysteresis

    ◯ friction

11. The copper loss of a transformer at half full load is measured as 200 W. Then the copper loss at full load is *

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◯ 800 W

◯ 200 W

◯ 100 W

◯ 400 W

12. The average emf per turn in a transformer is *

Mark only one oval.

◯ 4fφm

◯ 4.44 fφm

◯ 2fφm

◯ fφm

13. The flux in the transformer core is *

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◯ rotating

◯ partly rotating

◯ partly alternating

◯ purely alternating

14.   A transformer works on the principle of *

Mark only one oval.

○ Faraday's law

○ mutual induction

○ ferrari

○ superposition

15.   For a 250/25 V transformer having 1 kVA rating, the full load primary current is *

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○ 40 A

○ 4A

○ 0.4 A

○ 0.04 A

○ Option 5

16.   The value of flux used in the emf equation of a transformer is *

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○ RMS

○ average

○ maximum

○ instantaneous

17. For a 50 Hz transformer, the primary turns are 100 and maximum flux in the core is 0.08 Wb then the primary induced emf is *

Mark only one oval.

◯ 1856 V

◯ 1276 V

◯ 176 V

◯ 1776 V

18. A transformer has 200 W iron loss at full load. The iron loss at half full load is *

Mark only one oval.

◯ 100 W

◯ 200 W

◯ 400 W

◯ 300 W

19. A 250KVA single phase transformer has iron loss is 1.8KW and full load copper loss is 2000W. calculate 1)KVA load at maximum efficiency condition 2) Maximum efficiency at 0.8 power factor *

Mark only one oval.

◯ 237.17KVA, 98.15%

◯ 247.17KVA, 95.25%

◯ 257.17KVA, 96.25%

◯ 267.17KVA, 97.25%

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