



PHYSICS

BOOKS - PUNJAB BOARD PREVIOUS YEAR PAPERS

ELECTRICAL DEVICES

Exercise

1. How much current is drawn by the primary coil of a transformer, which steps down 220V

to 44V to operate a device with an impedance of 440Ω ?



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2. How much current is drawn by the primary coil of a transformer which steps down 220V to 22V to operate a device with an impedance of 220Ω ? Assume efficiency to be 100%.



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3. How much current is drawn by the primary coil of a transformer, which steps down 220V to 22V to operate a device with an impedance of 100Ω



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4. How much current is drawn by the primary coil of a transformer, which steps down 200V to 20V to operate a device with an impedance of 100Ω ?





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5. How much current is drawn by the primary coil of a transformer, which steps down 220V to 44V to operate a device with an impedance of 440Ω ?



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6. How much current is drawn by the primary coil of a transformer, which steps down 220V

to 44V to operate a device with an impedance of 440Ω ?



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7. How transformer is helpful in transferring electric power from generating station to consuming station ?



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8. Ratio of number of turns in primary and secondary coil of 440V-22000V step up transformer is

A. 0.50347222222222

B. 2.41736111111111

C. 1:50

D. 200:1

Answer: 1:50



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9. What are the factors which reduce the efficiency of a transformer ?



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10. How are the energy losses reduced in a transformer ?



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11. Draw a labelled diagram of a.c.generator.



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12. Explain principle and theory of Transformer with the help of diagram.



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13. Draw the labelled diagram of an a.c.generator. Write the principle on which it is based.



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14. State the principle of electric generator



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15. Explain principle and theory of Transformer with the help of diagram.



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16. Draw the labelled diagram of an a.c.generator. Write the principle on which it is based.



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17. Give the principle, construction and labelled diagram of AC generator.



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18. Give the principle of a transformer, construction of a stepdown transformer. Give any two energy losses of a transformer.



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19. Give the principle of a transformer, construction of a stepdown transformer. Give any two energy losses of a transformer.



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20. Why soft iron is used in making the core of a transformer ?



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21. Draw the labelled diagram of an a.c.generator. Write the principle on which it is based.



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22. Explain principal, construction and working of D.C. generator.



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23. Explain principle and theory of Transformer with the help of diagram.



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24. With the help of labelled diagram, describe the principle, construction and working of a transformer.



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25. Explain principal, construction and working of D.C. generator.



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26. What are copper loss, iron loss and hysteresis loss in transformer?



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27. With the help of labelled diagram, describe the principle, construction and working of a transformer.



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28. Name the various losses in a transformer.



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29. Explain with the help of a labelled diagram, the construction, working and theory of an AC generator. Obtain an expression for induced e.m.f.



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30. Establish relation between voltage and current in primary and secondary coils of transformer.



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