

No. of Printed Pages : 4

Roll No.

120965A/030965A

6th Sem. / Electrical Engg.

Subject : Energy Management

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Objective type questions. All questions are compulsory (10x1=10)

- Q.1 Define energy.
- Q.2 What is EIA.
- Q.3 HVDC stands for _____.
- Q.4 Define efficiency.
- Q.5 BIS full form is _____.
- Q.6 What is HVAC.
- Q.7 What is relation between Power, voltage and current.
- Q.8 Define power factor.
- Q.9 What do you mean by UPS.

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- Q.10 Write down two sources of renewable energy sources.

SECTION-B

Note: Very short answer type questions. Attempt any ten questions out of twelve questions. (10x2=20)

- Q.11 Write full form of CFL. What are its two advantages?
- Q.12 Define Efficiency of light source. How it is measured in.
- Q.13 The Sf_6 gas is used in _____. Write down its benefits.
- Q.14 Define load. Explain in brief.
- Q.15 What is fine tuning. Comment on its uses.
- Q.16 What is need of energy conservation.
- Q.17 Give two example of energy management.
- Q.18 How many units of electrical energy are consumed by a heater of 1000 Watts.
- Q.19 Write down the two methods of energy conservation in Agriculture sector.

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Q.20 What is dimming of light.

Q.21 Kinetic energy of wind is given by the formula_____.

Q.22 Explain the roll of ozone layer as filter.

SECTION-C

Note:Short answer type questions. Attempt any eight questions out of ten questions. (8×5=40)

Q.23 Define energy crisis. How it is related with oil and coal crisis.

Q.24 What do you mean by energy conservation. Explain its significance in domestic sector.

Q.25 What do you understand by energy efficient devices. Mention the name of such five devices.

Q.26 Explain the role of voltage on efficiency. Give example.

Q.27 Write a note on location capacitors.

Q.28 Define Energy audit. Mention its two uses.

Q.29 What are the requirements of good lighting system.

Q.30 Explain the two disadvantages of low power factor.

Q.31 Write a small note on wind energy.

Q.32 Discuss the effect of overload on efficiency of motor.

SECTION-D

Note:Long answer type questions. Attempt any three questions out of four questions. (3×10=30)

Q.33 Define and explain format of environmental impact assessment report. Give examples.

Q.34 What is energy audit strategy. Explain its various strategies and methods.

Q.35 Make a list of various Instruments used for energy audit.

Q.36 Explain the various basic reasons of power crisis in India.

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