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6th Sem / Branch : Electrical
Sub. : Electrical Energy Conservation and Management

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 Carbon are lamp are commonly used in (CO1)

- a) Domestic Lighting
- b) Cinema Projector
- c) Street
- d) Photography

Q.2 The unit of Solid angle is (CO1)

- a) Solid angle b) Radian
- c) Steradian d) Candela

Q.3 The unit of luminous flux is (CO1)

- a) Steradian b) Candela
- c) Lumen d) Lux

Q.4 BEE is established on (CO7)

- a) 1st March 2001 b) 1st March 2002
- c) 1st March 2005 d) 1st March 2018

Q.5 Which of the following is important feature of energy conservation Act. (CO7)
a) Standard & labeling

- b) Designated consumers
- c) Energy conservation building code
- d) All of above

Q.6 Technical losses in the secondary distribution system. (CO4)

- a) Lack of administration
- b) Due to unbalance load
- c) Copper Losses
- d) Both A & B

Q.7 What is the voltage output of H2-02 Fuel cell in volt? (CO5)

- a) -1.23 b) -1.45
- c) -1.01 d) -0.93

Q.8 Fuel cell are free from vibration, heat transfer and thermal pollution. (CO5)

- a) True b) False

Q.9 _____ has been formulated by Bureau of energy efficient. (CO7)

- a) Star labelling program
- b) Computer program
- c) Ranking program
- d) None of above

Q.10 BEE is under of ministry of _____ (CO4)

- a) Health b) Defence
- c) Power d) All of the above

(1)

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(2)

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SECTION-B

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

Q.11 Illumination on the surface is _____ proportional to cosine of angle between angle normal to the surface (Directly/Inversely) (CO1)

Q.12 Define efficiency of a light source. (CO1)

Q.13 In star rating ____ Point scale in used (Five/Seven) (Co2)

Q.14 Rating plan one formulated remains in force for _____ period of three year (Minimum/Maximum) (CO2)

Q.15 Synergy meter is used to measure _____. (CO4)

Q.16 Performance of distribution transformers is judged by its _____ (Commercial efficiency/All day efficiency) (CO4)

Q.17 Major part of electric load in any industry consists of _____ (Electric Motors/Transformers). (CO4)

Q.18 HVAC stand for _____. (CO6)

Q.19 Output of HVAC system is measured in _____. (CO4)

Q.20 AAHEPI stands for _____. (CO6)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Define candle power. (CO1)

Q.22 What is flood lighting. (CO1)

Q.23 Define Rating plan. (CO2)

Q.24 What is Mini Audit? (CO3)

Q.25 What is Salvage Value? (CO4)

Q.26 What is standby Power Consumption. (CO5)

Q.27 Define diversity factor. (CO2)

Q.28 What is net positive Suction Head. (CO5)

Q.29 What is Phantom load. (CO4)

Q.30 Define Thermal resistance of building. (CO7)

Q.31 What is a Skylight? (CO6)

Q.32 What is CFL? State their merit and Demerit. (CO1)

Q.33 List of activities involved in preliminary Audit. (Co3)

Q.34 Discuss the effect of power factor variation on the efficiency of transformer. (CO4)

Q.35 What are condition for the display of labels. (CO2)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Discuss various losses that occurs in standard Motors. How these losses are reduced in energy efficiency motors? (CO4)

Q.37 Discuss the need of energy efficiency in lighting system. (CO1)

Q.38 What are energy saving opportunities in refrigeration and air conditioning plant. (CO5)