No. of Printed Pages : 4

Roll No.....

180961/170961

6th Sem,

Branch : Electrical

Subject : Electrical Energy Conservation Management

Time : 3 Hrs. **M.M. : 100**

SECTION-A

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

Q.1 Candela is a unit of. (CO-1)

a) Luminous Lux b) Wavelength

c) Luminous d) None of above

Q.2 Which of the following will need lowest level of illumination. (CO-1)

a) Displays b) Fine engraving

c) Railway Platform d) Auditorium

Q.3 One lumen per square meter is the same us (CO-1)

a) One lux b) One candela

c) One foot candle d) One lumen meter.

Q.4 How energy conservation measures are classified?

a) Low cost high return (CO-1)

b) Medium cost medium return

c) High cost high return

d) All the above

Q.5 Full form of BEE. (CO-1)

a) Bureau of energy efficient

b) Basic electrical and electronics

c) Basic thermal engineering

d) None of the above

Q.6 BEE under the provisions of the act_____. (CO-1)

a) 2000 b) 2002

c) 2001 d) 1999

Q.7 The standards and labelling scheme lunched in____ (CO-1).

a) May 2006 b0 Feb 2005

c) March 2006 d) June 2006

Q.8 A star rating, ranging from ____ in the ascending order of energy efficiency. (CO-1)

a) 1 to 4 b) 1 to 6

c) 1 to 5 d) 1 to 10

Q.9 The informative labels affixed_____. (CO-1)

a) Product b) Tool

c) Equipment d) Machine

Q.10 Detailed audit it also called. (CO-3)

a) General Audit b) Side energy Audit

c) Screening Audit d) Both A & B

Section B

Note: Objective types Questions. All Questions are compulsory. (10x1=10)

Q.11 Level of illumination required in drawing office is _____ lux. (200/400) (CO-1)

Q.12 When illumination at a particular point is required_____ method is used for lighting design calculation (point to point/Watt per square meter). (CO-1)

Q.13 Star rating is a measure of energy _____ of an appliance. (Efficiency/output) (CO-2)

Q.14 Energy conservation act was passed in year _____ (2010/2001) (CO-2)

Q.15 _____ Capacity utilization is very much essential for achieving high efficiency (High/Low). (CO-2)

Q.16 electrical power requirement in kW of an equipment is termed at _____. (CO-4)

Q.17 Efficiency of transformer is maximum when iron loss is _____ copper loss (Equal to/less than/ Greater than). (CO-4)

Q.18 One BTHU_____. (CO-5)

Q.19 Name the agency which is responsible for implementation of ECBC in Haryana. (CO-7)

Q.20 NSPH Stands for _____. (CO-5)

Section-C

Note: Short answer Questions. Attempt any twelve Questions out of firteen Questions. (12x5=60)

Q.21 Define Lux. (CO-1)

Q.22 Define Depreciation Factor. (CO-1)

Q.23 What is the Principle of Conservation of Energy? (CO-2)

Q.24 What is an energy profile. (CO-4)

Q.25 What is primary objective of energy audit. (CO-3)

Q.26 What is effect of load variation on the efficiency of motor. (CO-4)

Q.27 what is Tariff? (CO-5)

Q.28 Define one tone of Refrigeration. (CO-5)

Q.29 what is Domestic Sector? (CO-6)

Q.30 Define efficiency of a lamp. (CO-1)

Q.31 Define Building Envelope. (CO-7)

Q.32 what is synergy meter. (CO-5)

Q.33 Write a short note on Thermal energy storage. (CO-5)

Q.34 Define fuel and give is classifications. (CO-5)

Q.35 What is centrifugal pump. In what application it is used. (CO-5)

Section-D

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

Q.36 What aspects are required to be considered while designing energy efficient motors. (CO-4)

Q.37 Discuss the basic reasons of power crisis in India. (CO-2)

Q.38 What are energy saving opportunities in a compressed air system. (CO-5)