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Reg. No. :

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Question Paper Code: 58174

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2021

One credit

Civil Engineering

15UCE874- BUILDING ENERGY AUDIT

(Regulation 2015)

Duration: 1.30 hours

Maximum: 50 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. The electricity sector in India had an installed capacity of _____ as of 31 March 2017. CO1-U
(a) 319.60GW (b) 391.60GW (c) 309.06GW (d) 311.06GW
2. Energy Consumption level for Thermal Power Stations is _____ metric tonne of oil equivalent(MTOE) per year and above CO1-U
(a) 20000 (b) 30000 (c) 40000 (d) 50000
3. As per EC act, State Government have been empowered designate agencies CO2-U
(a) State designate Agency (b) State designate Energy Agency
(c) State Energy Efficient Agency (d) Energy Efficient Agency
4. Typical Life period for LED Light is CO2-U
(a) 1-2year (b) 10 years (c) 15-25 years (d) 20- 25years
5. This type of energy Audit to be performed depends on CO1-U
(a) Function of industry (b) type of industry
(c) Magnitude of cost reduction desired (d) All of the above

PART – B (5 x 3= 15 Marks)

11. Write a relationship between Standards and labeling CO1-R
12. List out various of Energy Audit CO1-U
13. Write the objectives of Energy Management CO1-U

14. Write a short note on Energy efficiency in Lighting CO2-R
15. List out various Instruments Used in Energy Audit CO2-R

PART – C (2 x 15 = 30 Marks)

16. (a) Explain in detail about the responsibilities of Energy Managers and auditors CO1-U (15)
- Or
- (b) Explain in detail about Energy efficiency in lighting. CO1-U (15)
17. (a) Explain in detail about Case Studies in Energy efficiency in lighting CO2-U (15)
- Or
- (b) Explain in detail about Case Studies in Energy conservation in steam systems CO2-U (15)