

Program: Diploma in Electrical Engineering Full Marks: 80

Year/Part: III/I [2014] Pass Marks: 32

Subject: Utilization of Electrical Energy Time: 3:00 hrs

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt Any Five Questions.

- 1.a) Explain how electricity is converted into different forms of useful energy. Also explain use of electrical energy into domestic and industrial sectors. [4+4]
- b) Explain the factor affecting the design of indoor lighting scheme. [8]
- 2.a) What are the different types of lamps used for illumination? Compare incandescent lamp and LED lamp. [2+6]
- b) A factory space of 33m x 13m is to be illuminated with an average illumination of 72 lm /m² by 200w lamps. The coefficient of utilization of 0.4 and the depreciation factor is 1.4. Calculate the number of lamps required? The lumen output of a 200w lamp is 2730 lm. [8]
- 3.a) What is speed time curve? Explain in detail. [8]
- b) What are the different types of motor used in industries? Explain any two in detail. [8]
- 4.a) Define tariff. What are objective of tariff. Explain block rate tariff and maximum demand tariff in brief. [2+2+4]
- b) Explain the causes of low power factor. Explain the methods of improving power factor. [8]
- 5.a) A motor driving a colliery winder has following acceleration period. [8]
Load cycle (0-15 sec): load rising uniformly from 0 to 1000 HP
Full speed period: (15 to 85sec): load constant 600 HP
Deceleration per(85 to 95 sec) : Regenerative braking
(HP returned uniformly from 200HP to 0HP)
95 to 120 sec: Motor stationary.
Estimate the size of continuously rated motor.

Cont.....

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Padhraic Smyth



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 $2S_3O_2 + 2SO_3 \rightarrow 3H_2O + 7914kJ$ is this endothermic or exothermic?

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