Roll No:

KARPAGAM COLLEGE OF ENGINEERING, COIMBATORE -641 032.

B.E Electronics and Communication /Electronics and Telecommunication

Semester:II

Continuous Internal Assessment: II Date: 16.03.2016

Time: 1 Hours 30 Min Session: AN

Maximum: 50 Marks

Answer ALL Questions PART A –  $(10 \times 2 = 20 \text{ marks})$ 

A1. Classify Batteries.

A2. State the significance of Separators.

A3. Mention the types of Automobile batteries.

A4. State any four advantages of Lead-Acid Battery.

A5. Mention the types of Torpedo batteries.

A6. List any two advantages of fluorescent lamp.

A7. Define luminious flux.

A8. Define and express candle power in terms of solid angle.

A9. A 10-W fluorescent lamp has a luminous intensity of 35 cd. Find (a) the luminous flux it emits and (b) its luminous efficiency

A10. Define luminious intensity

Answer ALL Questions PART B-  $(2 \times 15 = 30 \text{ marks})$ 

B1. (a) (i) Explian the construction and working principle of Lead (6) acid battery with neat diagram.

(ii) Compare Lead acid battery with Ni-Cd and Ni-Fe (4) batteries.

(iii) Explian the construction and working principle of Nickel- (5) Iron battery with neat diagram.

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Answer ALL Questions PART B- (2 x 15 = 30 marks)

B1. (a) (i) Explian the construction and working principle of Lead (6) acid battery with neat diagram.

(ii) Compare Lead acid battery with Ni-Cd and Ni-Fe (4) batteries.

(iii) Explian the construction and working principle of Nickel- (5) Iron battery with neat diagram.

(b)	(i)	Explian the construction and working principle of Nickel Cadmium battery with neat diagram.	- (6)	(b)	(i)	Explian the construction and working principle of Nickel-Cadmium battery with neat diagram.	(6)
	(ii)	Compare primary cells and secondary cells	(4)		(ii)	Compare primary cells and secondary cells	(4)
	(iii)	State and Explain What is ampere-hour and watt-hou efficiency	r (5)		(iii)	State and Explain What is ampere-hour and watt-hour efficiency	(5)
						(Or)	
B2. (a)	(i)	Explain the construction and working principle of fluorescent lamp with neat diagrams.	f (6)	B2. (a)	(i)	Explain the construction and working principle of fluorescent lamp with neat diagrams.	(6)
	(ii)	With neat diagram explain the construction and working principle of sodium vapour lamp.	<b>j</b> (5)		(ii)	With neat diagram explain the construction and working principle of sodium vapour lamp.	(5)
	(iii)	Mention any two advantages and disadvantages of sodium vapour lamp.	f (4)		(iii)	Mention any two advantages and disadvantages of sodium vapour lamp.	(4)
		(Or)				(Or)	
(b)	(i)	Along with necessary diagrams explain the construction and working principle of mercury vapour lamp.	n (6)	(b)	(i)	Along with necessary diagrams explain the construction and working principle of mercury vapour lamp.	(6)
	(ii)	State and prove laws of illumination	(5)		(ii)	State and prove laws of illumination	(5)
	(iii)	Define the terms Light and Radiant Efficiency.	(4)		(iii)	Define the terms Light and Radiant Efficiency.	(4)
Staff	· Inc	harge HoD/E	EEE	Staff	<sup>i</sup> Incl	harge HoD/EE	ΞE