Name:

Enrolment No:

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, April/May 2018

Course: Indian Electricity Act & Regulations ELEG-491 **Semester: VIII**
Program: B.Tech Electrical Engineering
Time: 03 hrs. **Max. Marks: 100**

Instructions: All questions are compulsory.

SECTION A

S. No.		Marks	CO
Q 1	Discuss in brief the concept of wheeling power.	**5**	**CO3**
Q 2	Wind and Solar Energy sources complement each other. Justify.	**5**	**CO1**
Q 3	Enumerate the two major amendments of the Indian Electricity Act 1948.	**5**	**CO2**
Q 4	Discuss the concept of earthing in electrical systems.	**5**	**CO2**
	SECTION B		
Q 5	Describe in detail the organizational structure of the Indian Power Sector.	**10**	**CO1**
Q 6	"Open Generation to Private Sector is a boon to the Indian Electricity Market". Justify.	**10**	**CO2**
Q 7	Enumerate the essential features of the Energy Conservation Act, 2001. Enlist the schemes under the act for DSM.	**10**	**CO3**
Q 8	"The Electricity Act 2003 brought with it the provision for Open Access". Discuss its need & significance for the Indian Electricity Sector.	**10**	**CO2**
	SECTION-C		
Q 9	Compare the structure of a regulated and a de-regulated electric industry. Also enumerate the need for a de-regulated power market.	**20**	**CO3**
Q 10	Discuss in detail the significance of Data Envelopment Analysis (DEA) model with respect to energy efficiency and conservation. Or Enlist the roles and responsibilities of : i. Central Electricity Regulatory Commission ii. Bureau of Energy Efficiency	**20**	**CO1**

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SECTION A

S. No.		Marks	CO
Q 1	Define Open Access with regards to power generation.	**5**	**CO3**
Q 2	Define two-part tariff.	**5**	**CO1**
Q 3	Give four examples supporting promotion of supply of Energy Efficient Goods and Services.	**5**	**CO3**
Q 4	Define de-regulation of electrical power sector.	**5**	**CO2**
	SECTION B		
Q 5	Enumerate the essential features of Indian Electricity Act 2003.	**10**	**CO3**
Q 6	Discuss the need and significance of the Energy Conservation Act 2001.	**10**	**CO3**
Q 7	Enlist the essential features of Indian Electricity Act 1910 with regards to "Provision for license for supply of electricity."	**10**	**CO1**
Q 8	Discuss the concept of availability based tariff.	**10**	**CO2**
	SECTION C		
Q 9	Describe in detail the existing electricity regulation system incorporating various acts after independence.	**20**	**CO1**
Q 10	Discuss the roles and responsibilities of directorate of Electrical Safety and their methodology to ensure. Or Discuss in detail the need and significance for rules and regulations with regards to the Indian Electricity Market.	**20**	**CO2**