Name: **Enrolment No:**	UPES

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2018

Name of the Program: MBA Power Mgt. **Semester – Ist**
Subject Name: Power Sector Structure & Functioning **Max. Marks : 100**
Subject Code : PIPM –7002

SECTION A
Attempt all questions

QNo.	Question Description	Marks	CO
1	Explain power system as per section 2 of the Electricity Act 2003.	**2**	**CO1**
2	What is the full form of RfP, NIT & RfQ?	**2**	**CO1**
3	Define open access and cross subsidy.	**2**	**CO1**
4	Explain "Distribution and supply" concept in Indian Power Sector?	**2**	**CO2**
5	What is current installed generation capacity and units generated in 2017-18 in India?	**2**	**CO1**
6	What do you mean by Reactive power? How are compensated?	**2**	**CO2**
7	Name power secretary of Govt. of India and state of Uttrakhand.	**2**	**CO1**
8	What is primary fuel charge component for a thermal plant?	**2**	**CO2**
9	Give full form of ABT, UI and APTEL.	**2**	**CO1**
10	What is Ancillary business in Indian power sector? Explain any one of them.	**2**	**CO1 & CO2**

SECTION B
Attempt any TWO questions

1	Explain power scenario in India –past, present and future.	**10**	**CO2 & CO3**
2	Explain salient features of the Electricity Act 2003.	**10**	**CO2 & CO3**
3	What is World Bank's prescription for power reforms in the developing countries? Critically evaluate any three of them.	**10**	**CO3 & CO4**

SECTION-C **Attempt any TWO Questions**			
1	Write in short amendments proposed in the Electricity Act 2003.	**15**	**CO2, CO3, CO4 & CO5**
2	Explain salient features of "Concept-paper for tariff 2019-24". Critically evaluate anyone point.	**15**	**CO3, CO4 & CO5**
3	What are structure of Indian Power Sector? Explain functioning of any one of them.	**15**	**CO2, CO3 & CO4**
SECTION-D			
1	Calculate tariff for 1000 MW TPP as per CERC regulations & norms.	**30**	**CO3, CO4 & CO5**

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SECTION A
Attempt all questions(Write short notes of the following)

QNo.	Question Description	Marks	CO
1	Explain open access as per section 2 of the Electricity Act 2003.	**2**	**CO1**
2	What is the full form of GCV, NIT & SHR?	**2**	**CO1**
3	Define power system as per EA 2003.	**2**	**CO1**
4	Explain "Distribution and supply" concept in Indian Power Sector?	**2**	**CO2**
5	What is current generation and transmission capacity in India?	**2**	**CO1**
6	What do you mean by power factor? Explain.	**2**	**CO1**
7	Name chairperson of the CERC and UERC.	**2**	**CO1**
8	What is secondary fuel charge component for a thermal plant? Explain.	**2**	**CO1 & CO2**
9	Give full form of PPA, FSA and ATE.	**2**	**CO1**
10	What is DSM? Explain.	**2**	**CO1 & CO2**

SECTION B
Write short notes(Attempt any TWO Questions)

1	Explain salient features of the EC Act 2001. Critically evaluate its application.	**10**	**CO2 & CO3**
2	Describe power system with a neat diagram from fuel to generation upto the consumer's-end.	**10**	**CO2 & CO3**
3	Explain different between bilateral and pooled power-trading methods in power sector. Critically evaluate functioning of PXs	**10**	**CO4 & CO5**

SECTION-C **Attempt any TWO Questions**			
1	Write in short amendments proposed in the Electricity Act 2003. Evaluate anyone in detail.	**15**	**CO4 & CO5**
2	What are main organization in field of power as per statutory requirement? Explain roles, functioning and power of any one of them	**15**	**CO3, CO4 & CO5**
3	Explain proposed suggestions for Tariff Regulations 2019-24 as per CERC concept paper. Critically evaluate any one of them.	**15**	**CO4 & CO5**
SECTION-D			
1	Calculate tariff for 500 MW HPP in Uttarakhand assuming UERC norms & regulations.	**30**	**CO3, CO4 & CO5**