


Name:	 UPES UNIVERSITY OF TOMORROW
Enrolment No:	

UPES	
End Semester Examination, December 2023	
Course: Regulatory Framework for Green Energy & Sustainability	Semester: III
Program: BBA GES	Time : 03 hrs.
Course Code: OGET 2004	Max. Marks: 100
Instructions:	

SECTION A			
10Qx2M=20Marks			

S. No.	Question	Marks	CO
Q 1	What is Additional Surcharge?	2	CO1
Q 2	Write down the full form of NLDC and RLDC	2	CO1
Q 3	Name the regulatory body of upstream sector of Oil & Gas sector in India	2	CO1
Q 4	What is RoE in NTP 2019?	2	CO1
Q 5	In which year India's first law for environment protection was implemented?	2	CO1
Q 6	What is PCB?	2	CO1
Q 7	Who is the Cabinet minister of MNRE?	2	CO1
Q 8	What is the capital cost of Small Hydro power plants for Himalayan states?	2	CO1
Q 9	Name 4 Social drivers for framing any policy.	2	CO1
Q 10	What is Vertical disintegration?	2	CO1

SECTION B			
4Qx5M= 20 Marks			

Q 1	Explain PLF, PAF & CUF with stating relationship among them. What are CUFs for Solar PV and Wind Energy Power Plant in India as per CERC.	5	CO2
Q 2	What is the role of CERC and SERC in Indian power sector.	5	CO2
Q 3	Why is O&M cost not fixed for Solar PV power plants as per Renewable Energy tariff policy in India?	5	CO2
Q 4	What is Energy Security? Why the term important for India?	5	CO2

SECTION-C			
3Qx10M=30 Marks			

Q 1	Analyze the costs involved as a part for finalizing the landed cost of electricity. Explain with a schematic diagram.	10	CO3
Q 2	Analyze the Indian Power trading contracts as per Power Market Operation Regulations	10	CO3
Q 3	Analyze the role EA 2003 in India Power sector	10	CO3

SECTION-D			
2Qx15M= 30 Marks			

	<p>Calculate the Tariff for Wind Plant of 50 MW capacity with help of Following parameters:</p> <ol style="list-style-type: none"> 1. Capital Cost = Rs. 6 Crores per MW 2. Interest on debt = 10 % per Annum 3. Interest on working capital= 9 % per Annum (Assume working capital as 10% of Capital Cost) 4. CUF= 30 % and Depreciation= 6 % per annum 5. RoE= 14 % per annum 6. O&M Cost – 5 Lakhs per MW per Year 		
Q 1	Calculate tariff for one unit of Power for first year of Operation.	15	CO4
Q 2	How you can bring down this tariff to Rs. 2 per Kwh. Please suggest with explanations.	15	CO4