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School of Business UPES End Semester Examination December 2022

Program: BBA (GES) Subject/Course: Solar Energy Resource Management

Course Code: OGET 2003

Semester: 3rd Max. Marks: 100 Duration: 3 Hours

SECTION A 10Qx2M=20Marks

Q.No	10Qx2M=20Marks	Marks	Cos
Q1	What are the 2 most prominent concerns about Solar Power?	2	CO1
Q2	Which of the following is not a Renewable Source of Power Generation: a) Natural Gas b) Biomass c) Bagasse d) Wind 	2	CO2
Q3	Write about any 2 advantages of Solar Photovoltaic Cells	2	CO2
Q4	What are Portable Solar applications?	2	CO1
Q5	The installed capacity of Solar Power accounts for the highest percentage share among all Renewable Energy Sources. (True/False)	2	CO2
Q6	What do you understand by the term "Off Grid Solar Applications"?	2	CO2
Q7	Which of the following is not a material used in the constriction of Solar Photovoltaic Cells: a) Silicon b) Gallium Arsenide c) Copper d) Tungsten	2	CO1
Q8	Which organization has been set up to facilitate the implementation of the National Solar Mission by the Ministry of New and Renewable Energy (MNRE)	2	CO1
Q9	What is understood by "Security of Source" with reference to the importance and relevance of Solar Energy in India.	2	CO1
Q10	The Mission Strategy of the JNNSM suggests to make Solar Heaters mandatory for all buildings. (True/False)		CO1
	SECTION B 4Qx5M= 20 Marks	1	
Q11	Discuss about any 2 applications of Passive Solar Techniques.	5	CO2

Q12	Discuss the disadvantages of using coal as a fuel for power generation.		CO3
Q13	Briefly discuss the Mission Strategy under the Jawaharlal Nehru Solar Mission.		CO3
Q14	Explain any 3 ways by which the Government of India has encouraged the generation and use of solar energy.	5	CO2
	SECTION-C		
	3Qx10M=30 Marks		
Q15	Discuss the Objectives of the Jawaharlal Nehru National Solar Mission.	10	CO3
Q16	Discuss 5 advantages and 5 disadvantages of Solar Power.	10	CO4
Q17	Discuss in detail the benefits of registering a Solar Power Plant for REC Mechanism.		CO3
	SECTION-D 2Qx15M= 30 Marks		
Q18	You have been put in charge of the power sale for a Solar Generating station. Evaluate if you will opt to sell the power on Preferential Tariff or register the generating station for REC Mechanism. The evaluation should clearly highlight the reasons for your choice. The following data may be used for evaluation purposes. Particulars Preferential Tariff Rs. 5.30/kWh Conventional Tariff RS. 3.10/kWh REC Price Floor Price: Rs. 1500/REC Forbearance Price: Rs. 3000/REC REC Available for sale in the market 10000 RECs Note: The RPO Regulations are strictly implemented in the state.	15	CO4
Q19	Following is the breakup of RE Power Installed Capacity in India. Source of Generation Installed Capacity (MW)	15	CO4