Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2019

Course: Renewable Energy Policies (EPEC8007) Semester: III

Programme: M.Tech Renewable Energy Engineering

Time: 03 hrs. Max. Marks: 100

Instructions: Clearly mention any assumptions with proper justification

SECTION A

S. No.		Marks	CO
Q 1	Explain the Targets of Phase I of JNNSM	4 M	CO1
Q.2	Explain the 'Mandatory' requirement of earning REC	4 M	CO1
Q.3	Explain in brief Decentralized Energy Generation.	4 M	CO2
Q.4	Explain the 'Generalized objective(s)' of policy (document) formation.	4 M	CO1
Q.5	Explain challenges in meeting Remote Village Electrification Programme.	4 M	CO3

SECTION B

With neat diagram explain the 'Policy formation process' also explain the involvement of various bodies in forming the policy.	8 M	CO1
An IPPC has signed a MoU with DISCOM for sale of Renewable Energy by participating in Reverse bidding @ 2.47 PU for 25 years during June 2017 in state of Rajsthan. The IPPC has Installed 100 MW power plant. Out of which 20 MW are supplied to nearby industrial area and 80 MW are dedicated for DISCOM. IPP is feeding energy in to grid lines extended by DISCOM. Explain if IPP is eligible for REC. Estimate the approximate annual RECs that can be earned by IPP. Make suitable assumptions and justify all.	8 M	CO1
Briefly explain highlights of India's policy in Bio Energy & Wind Energy	8 M	CO4
Explain the various schemes initiated by Govt. of India to improve and modernize the livelihood at Indian Villages (Energy prospective).	8 M	CO2
With neat diagram explain the 'Grid Interactive SPP', In view of grid interactive SPP, explain the various challenges and ways to mitigate the challenges.	8 M	CO3
SECTION-C		
Write a brief note on following: 1) Power for all, Electricity Act 2) Wind-Solar Hybrid Policy 3) Challenges food by INNSM Phase I & Phase II	20 M	CO2 CO4 CO1 CO3
	involvement of various bodies in forming the policy. An IPPC has signed a MoU with DISCOM for sale of Renewable Energy by participating in Reverse bidding @ 2.47 PU for 25 years during June 2017 in state of Rajsthan. The IPPC has Installed 100 MW power plant. Out of which 20 MW are supplied to nearby industrial area and 80 MW are dedicated for DISCOM. IPP is feeding energy in to grid lines extended by DISCOM. Explain if IPP is eligible for REC. Estimate the approximate annual RECs that can be earned by IPP. Make suitable assumptions and justify all. Briefly explain highlights of India's policy in Bio Energy & Wind Energy Explain the various schemes initiated by Govt. of India to improve and modernize the livelihood at Indian Villages (Energy prospective). With neat diagram explain the 'Grid Interactive SPP', In view of grid interactive SPP, explain the various challenges and ways to mitigate the challenges. SECTION-C Write a brief note on following: 1) Power for all, Electricity Act	involvement of various bodies in forming the policy. An IPPC has signed a MoU with DISCOM for sale of Renewable Energy by participating in Reverse bidding @ 2.47 PU for 25 years during June 2017 in state of Rajsthan. The IPPC has Installed 100 MW power plant. Out of which 20 MW are supplied to nearby industrial area and 80 MW are dedicated for DISCOM. IPP is feeding energy in to grid lines extended by DISCOM. Explain if IPP is eligible for REC. Estimate the approximate annual RECs that can be earned by IPP. Make suitable assumptions and justify all. Briefly explain highlights of India's policy in Bio Energy & Wind Energy Explain the various schemes initiated by Govt. of India to improve and modernize the livelihood at Indian Villages (Energy prospective). With neat diagram explain the 'Grid Interactive SPP', In view of grid interactive SPP, explain the various challenges and ways to mitigate the challenges. SECTION-C Write a brief note on following: 1) Power for all, Electricity Act 20 M

	4) International policy framework Rural Electrification								
Q.12	With neat diagram explain RE case: A model village is proposed to Solar Power Plants. The village building as school, Spiritual proposed to Capacity of Roof Top system is Capacity of SPP No of families Avg. Monthly Energy Consumption / family The flat rate tariff at the village With reference to current room MNRE, prepare a business description: 1) All systems: Domestic In the compact of the system of th	make e has popolace, co as follo 2 kW 100 200 is Rs. 3 ftop polamodel Roof top etering Solar Potar dated cluster of the EC is Rs.	nergy inculation of mmunity wing 3 kW 55 300 .50 per unicy (FY with property with property 28, of all the e same. 2200/- p	depende of 1200 w y hall, I 4 kW 40 400 unit. 2019-1 ayback as & 50 2019 ase Rooft Also, ca eer REC.	ont with the vithin 230 Dispensary 5 kW 30 500 0) and g period be copered by copered b	ne help of families y etc. The 10 kW 10 1000 uidelines hased on W Flat	Roof Top & 10 other e installed 15 kW 5 1500 issued by following	4+8+8 M	CO1& CO3