UNIVERSITY OF PETROLEUM & ENERGY STUDIES

DEHRADUN

End-semester Examination – April, 2017

Name of the Program: MBA (Power) **Semester – IV**

Subject Name : Integrated Power Resources Management **Max. Marks : 100**

Subject Code : MDSP 865 **Duration : 3 Hrs**

Answer all questions. Marks are indicated against each question.

1. Briefly explain the following: (2 marks * 5 = 10 marks)

    a) Electricity-GDP Elasticity
    b) Sustainable Development
    c) Energy Access
    d) Demand Side Management
    e) Energy mix

2. Enlist the factors that affect growth in power demand of a country. (5 marks)

3. List the common objectives that are aimed to plan for integration of various power resources. (5 marks)

4. Electricity-GDP elasticity is used by planning agencies to plan for India's power generation capacity requirement in future. Exhibit with the help of an example. (10 marks)

5. For integrating various power resources to the grid, smart grid is a necessity. Justify. (10 marks)

6. Masdar City project is a wonderful example of optimum integration of various resources. Discuss the salient features of the project that exhibit such integration of resources. (15 marks)

7. Worldwide, countries are incorporating more and more renewable energy in their energy mix. Discuss the reasons for such a trend and illustrate India's stand. (15 marks)

8. Initially, the experiments with PV projects in Sagar Islands were quite successful in improving energy access but later on it turned out to be unsustainable. Comment. (15 marks)

9. Husk Power System has been very innovative in market identification, delivery of service, power delivery to poor households and power theft prevention. Justify. (15 marks)
