Code No: 158DE

b)

**R18** 

[7+8]

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech IV Year II Semester Examinations, September - 2022 **ENERGY SOURCES AND APPLICATIONS** (Common to CE, ME, ECE, CSE)

**Time: 3 Hours** Max.Marks:75

> Answer any five questions All questions carry equal marks

What are different energy sources available worldwide? How the different energy sources 1. play a major role in the development of a nation? [15] 2.a) How an energy source can influence economy of a country – Discuss. What do you think about India's oil imports? Is it good for India's development? Justify b) your answer. [7+8]Write an overview about different energy systems, their transformation and about their 3. [15] efficiency and storage. As an energy manager working in India, What kind of renewable energy projects will you 4. suggest to the government and tell about its advantages and disadvantages. [15] Explain with examples any one method for storing energy for future use. 5.a) In the Indian context why regeneration of energy is essential? b) [8+7]Write a detailed note or High Efficiency batteries and tell how energy is stored in that. 6. [15] By giving examples for future energy sources, explain in detail about how economic 7. and environmental policy can guide as in choosing an energy source. [15] What do you know about LEED ratings? Explain. 8.a)

---00000---

Define Energy Audit and tell about the process of energy audit.