|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |

**Reg.No**

**Sona College of Technology(Autonomous), Salem -5.**

**Department of EEE**

**U15EE1006R – Renewable Energy Systems (Open Elective)**

**Question Bank**

|  |  |
| --- | --- |
| **PART – A** | |
|  | Mention the present contribution of different types of power plants in India. |
|  | List any four renewable sources of energy. |
|  | Apply the key factors affecting energy intensity? |
|  | Compare the classification of energy sources based up on the type of origin. |
|  | Define irradiance and irradiation. |
|  | List the various types of solar collectors. |
|  | What are the different forms of energy? |
|  | Name the products that can be obtained from crude oil. |
|  | List the advantages, and limitations of renewable energy sources? |
|  | Mention the compounds present in the coal? |
|  | Mention the advantages of concentrating collectors over Flat plate type collectors. |
|  | What is diffuse radiation? |
| **PART – B Answer All questions (2 x 5 = 10 Marks)** | |
|  | Compare renewable and non-renewable resources. |
|  | Explain the reasons for variation in the amount of solar energy reaching earth surface. |
|  | Discuss about energy plantation and the measures taken in India for energy plantation. |
|  | Why orientation is needed in concentrating type collectors? |
|  | Apply why it is necessary to develop non-conventional method of generating electrical energy. |
|  | Illustrate the performance of energy plantation. |
|  | Why it is Importance of theenergy budget in the world. |
|  | Analyze the environmental aspects of energy utilization. |
|  | Discuss about the world energy futures with necessary diagrams. |
|  | Write a short note on water cycle. |
|  | Illustrate the prospects of renewable energy sources in India. |
|  | Apply the obstacles to the implementation of renewable energy sources |
|  | Comment on the growth of energy sector in India. |
|  | Enumerate the significance of energy consumption as measure of prosperity. |
|  | Give the importance of renewable energy sources. |
|  | What are primary and secondary energy sources? |
|  | Analyze the performance of the Liquid Flat Plate Collector. |
|  | Analyze the performance of the Flat Plate Air Heating Collector |
|  | Analyze performance of the solar radiation. |
|  | Analyze different types of solar energy collectors with neat sketch. |