



- (a) Steam plants (b) Hydro plants (c) Nuclear plants  
 (d) Diesel plants
- j)** Utilisation factor is defined as the ratio of  
 (a) Average demand to the rated capacity of the plant.  
 (b) Maximum demand on the power plant to the rated capacity of the power plant.  
 (c) Rated capacity of the power plant to the maximum demand.  
 (d) None of these
- k)** What is connected load?  
 (a) Installed electrical load in the premises of the consumer.  
 (b) Maximum load a consumer draws.  
 (c) Load drawn by a consumer at any instant.  
 (d) None of the above.
- l)** What is the load factor of a power plant?  
 (a) Greater than unity (b) Less than unity (c) Always more than unity  
 (d) Normally more than unity
- m)** What is the shape of the load duration curve?  
 (a) Rectangular shape (b) Triangular shape (c) Parabolic shape  
 (d) Free hand sketch
- n)** The diesel plants are mainly used \_\_\_\_\_.  
 (a) as peak load plants .(b) as base load plants.  
 (c) as standby power plants.(d) both peak and stand by plants.

**Attempt any four questions from Q-2 to Q-8**

- Q-2**      **Attempt all questions**      **(14)**
- a      What are the factors to be considered for selection of the site for a thermal power station?      **05**
- b      What are the factors to be considered for the selection of a nuclear power station      **05**
- c      What are the components of a gas turbine plant?      **04**
- Q-3**      **Attempt all questions**      **(14)**
- a      Write a short-note on different types of insulators used for overhead lines and their applications.      **07**
- b      Show how the sag of an overhead line can be calculated in case of supports at different levels.      **07**
- Q-4**      **Attempt all questions**      **(14)**
- a      Explain the necessity of a stringing chart for a transmission line and show how such a chart can be constructed.      **07**
- b      State the classification of cables ( according to voltage) and discuss their general construction.      **07**
- Q-5**      **Attempt all questions**      **(14)**
- a      Define the following terms in connection with a power supply system:      **08**



	(i) Connected load (ii) Maximum demand (iii) Demand factor (iv) Load factor	
	b Explain the term of Tariff ? Explain in detail about Two part Tariff & Block rate tariff.	<b>06</b>
<b>Q-6</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a Draw the structure of electrical power system. Explain in detail about each part of the power system.	<b>07</b>
	b Define the following terms in connection with a power supply system: (i) Diversity Factor (ii) Average demand (iii) Plant capacity factor (iv) Load duration curve	<b>07</b>
<b>Q-7</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a Write Short Note on : Stringing Chart	<b>07</b>
	b Write Short Note on : Ferranti effect	<b>07</b>
<b>Q-8</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a Write Short Note on : Testing of Insulators	<b>07</b>
	b Write Short Note on : Hydro power plant	<b>07</b>

