



- b) What are the different arrangements used for the disposal of bled steam condensate in steam turbine? List out merits and demerits of each over others. 10
4. a) Explain the different site-selection criteria of hydro-electric power plant. 10
- b) Showing the general arrangement of a storage type hydro-electric power plant explain the working functions of its different components. 10
5. a) What do you understand by control rod and moderator in nuclear power plant. Explain the working functions and material used for that purposes. 8
- b) Draw the neat diagram of CANDU type reactor and give its advantages and disadvantages over the other types. 10
- c) What are fissile materials? 2
6. a) What are different renewable energy sources? 4
- b) From the 'Betz theory' established the expression for maximum wind power can be converted to useful work. 10
- c) How geo-thermal energy can be converted to electric power? 6

8. Write short notes on the followings : (any **four**) 5x4=20
- a) Pump storage plant
- b) Pressurised heavy water reactor
- c) Geo-thermal system
- d) High pressure boiler
- e) Base load and Peak load plant
- f) Chain reaction