

2

.

13. a) Explain the main features of CANDU reactor and elaborate the *13,K3,C03* arrangement of calandria in a CANDU reactor with a neat sketch.

OR

- b) (i) Discuss the various factors to be considered while selecting the site 6.K2.CO3 for nuclear power station.
 - (ii) Elaborate various possible nuclear hazards and its effects on *7,K2,C03* human being.
- 14. a) Explain about the working process of hydel power plant with a neat *13,K2,CO4* layout of all systems.

OR

- b) Describe the working of single basin and double basin type Tidal *13,K2,CO4* power plant. State the advantages and limitations of each.
- 15. a) Why waste disposal is important in Nuclear power plants? Describe the *13,K2,C05* waste disposal methods of different types of Nuclear Wastes.

OR

b) Compare the different elements of costs involved in analysis of 13,K2,C05 economics of various types of power plants.

PART - C $(1 \times 15 = 15 \text{ Marks})$

16. a) Based on present environmental issues, recommend suitable methods *15,K3,C06* for pollution control in Thermal and nuclear power plants in India. Elaborate the reasons? Limit your answer to 250 to 300 words.

OR

b) Compare a Diesel engine plant with hydel power plant and state their *15.K2,C06* relative advantages and disadvantages.

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

2

11842