

PART - B (5 × 16 = 80 Marks)

11. (a) Write short notes on : (i) Design process (ii) CAD system architecture

OR

- (b) What is meant by concurrent engineering ? Describe the various schemes for concurrent engineering.

12. (a) What are Bezier curves ? Discuss its important properties.

OR

- (b) What do you understand by boundary representation (B-rep) technique of solid modelling ? Explain briefly the data structure of B-rep solid model.

13. (a) Explain the following color models used in computer graphics :

(i) RGB (ii) CMY

OR

- (b) Write short notes on the following hidden surface algorithms : (i) Back-face removal (ii) Z-buffer algorithm

14. (a) Briefly explain the elements of a mechanism analysis.

OR

- (b) Write short note on : Statistical tolerance analysis.

15. (a) Briefly explain any one of the known graphic standards.

OR

- (b) Write short note on : Drawing Exchange Format (DXF) standard.