

Time : 3 hr

Max Mark : 100

Part A (10 X 2 = 20 mark)

Answer all questions



1. What is empherical design?
2. What are the requirements of good design?
3. How real life problem is different from structural problem.
4. What are the advantages of making a prototype of a model?
5. List various creativity methods.
6. What is meant by synectics ?
7. What is the importance of ergonomics in design?
8. What is the role of aesthetics in design?
9. What are all the modes of communication ?
10. State two advantages of e mail

Part B (5 X 16 mark = 80 mark)

11. Explain the Morphology of design (16)
12. a)i) Sketch the basic module of design process and explain each operation of with examples. (10)
ii) In need identification, explain hierarchy of five needs of human (6)

OR

- b). (i) Explain the four levels of customer requirements , considering a Television as an example (6)
(ii) Explain the four methods of gathering information from customers (10)
13. a). Write notes on (i) Force fitting methods (ii) concept map (16)

OR

- b). Write notes on (i) creativity and problem solving (ii) Theory of invective problem solving (16)
- 14 . a) Explain the guidelines, with sketches, for Design for environment (16)

OR

- b) Explain the guidelines, with sketches, for Design for manufacturing (16)
15. a) Explain with sketches, types of visual aids and their uses (16)

OR

- b) Write notes on (i) Writing the technical Report (ii) visual aids (iii) Text , Verbal and visual Communication (16)