

2024

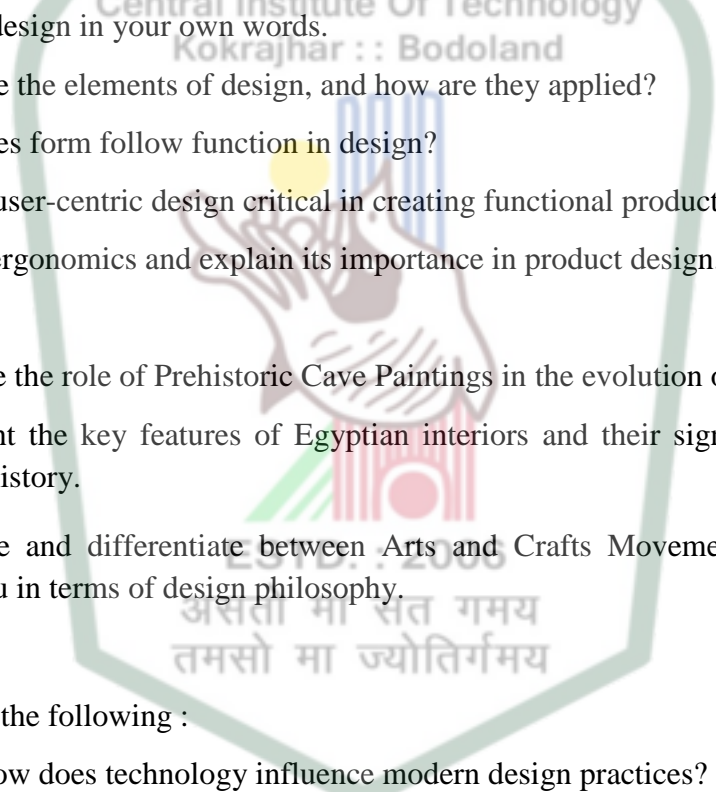
DESIGN: AN INTRODUCTION

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

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1. a) Define design in your own words. 4
b) What are the elements of design, and how are they applied? 4
c) How does form follow function in design? 4
d) Why is user-centric design critical in creating functional products? 4
e) Define ergonomics and explain its importance in product design. 4
2. a) Describe the role of Prehistoric Cave Paintings in the evolution of design. 6
b) Highlight the key features of Egyptian interiors and their significance in design history. 6
c) Compare and differentiate between Arts and Crafts Movement and Art Nouveau in terms of design philosophy. 4+4
3. a) Explain the following : 3x4 = 12
i) How does technology influence modern design practices?
ii) How does the use of negative space enhance a design?
iii) Describe the concept of harmony and contrast in design.
b) Discuss the principles of balance (symmetrical, asymmetrical and radial) with appropriate illustrations. 2+3+3
4. a) Define anthropometrics and its relevance in creating user-centred design solutions. 6
b) How do rhythm and emphasis create a dynamic spatial experience? 6

- c) How do human factors such as dimensions, distance zones, and activity relationships affect spatial planning? 8
5. a) Explain the following factors : 2x6 =12
- Integration of “*utility and economy*” in design solution.
 - Role of “*fitting the space*” in achieving functional and aesthetic design.
- b) Explain the significance of the golden section in design with an example. 8
6. a) What is a design process? Explain each stages of it with an appropriate example. 2+6
- b) How does design influence societal values, behaviours, and cultural identity in the context of social change, inclusivity, and sustainability? 4+4+4
7. a) Design two chairs: one representing a traditional style and the other reflecting a modern, minimalist approach. In your response, address the following:
- Illustrate both the traditional and modern chair designs, ensuring that each is distinct in its style and approach. Provide details such as form, proportions, and decorative elements for the traditional chair, and simplicity, clean lines, and functionality for the modern chair. 4+4
 - Highlight the key differences between the two chairs in terms of form, materials, and functionality. Discuss how the traditional design focuses on craftsmanship and ornamentation, while the modern design emphasizes minimalism, efficiency, and versatility. 6+6