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## **Enrolment No:**



## **UPES**

## **End Semester Examination, May 2025**

Course : Elements of Design Semester : IV

Program : B.Tech-Biomedical Engineering Duration : 3 Hours

Course Code: SDCS2003 Max. Marks: 100

**Instructions: All questions are compulsory.** 

Please read the questions carefully. The paper contains four sections. Use answer sheets for writing and

A3 sheets for drawing and illustration.

S. No.	Section A	Marks	COs
	Short answer questions/ MCQ/T&F (20Qx1.5M= 30 Marks)		
Q 1	What is a dot in design?	1.5	CO1
	a. A small circular shape		
	b. A type of line		
	c. A textured surface		
	d. A three-dimensional form		
Q 2	Which of the following does not rely heavily on texture	1.5	CO1
	a. Ceramics design		
	b. Jewelry design		
	c. Furniture design		
	d. Poster design		
Q 3	Which element of design is created by extending a dot?	1.5	CO1
	a. Line		
	b. Texture		
	c. Shape		
	d. Pattern		
Q 4	How does line orientation impact perception?	1.5	CO1
	a. Changes visual flow		
	b. Reduces contrast		
	c. Eliminates texture		
	d. Enhances symmetry		
Q 5	Which texture appears rough when seen from a distance but is actually smooth?	1.5	CO1
	a. Actual texture		
	b. Implied texture		
	c. Digital texture		
	d. Natural texture		
Q 6	True or false: "Lines convey mood and feelings."	1.5	CO1

Q 7	How do geometric shapes differ from organic shapes?	1.5	CO1
~	a. They are less defined		
	b. They have precise mathematical structure		
	c. They are always three-dimensional		
	d. They appear random		
Q 8	Which of the following is NOT a type of texture?	1.5	CO1
	a. Rough		
	b. Smooth		
	c. Polished		
	d. Transparent		
Q 9	Which element is most responsible for creating movement in design?	1.5	CO1
	a. Shape		
	b. Line		
	c. Texture		
	d. Pattern		
Q 10	"Follow the dotted line" is an example of which type of line.	1.5	CO1
Q 11	What does a checkerboard pattern demonstrate?	1.5	CO1
	a. Texture		
	b. Color blending		
	c. Alternating contrast		
	d. Random repetition		
Q 12	How does texture affect a composition?	1.5	CO1
	a. It enhances realism		
	b. It removes contrast		
	c. It simplifies the layout		
	d. It reduces depth		
Q 13	What does a diagonal line typically convey in design?	1.5	CO1
	a. Stability		
	b. Motion and energy		
	c. Balance		
	d. Softness		
Q 14	Regardless of the chosen medium, when the line is the main element of an image, the	1.5	CO1
	result is called		
	a. Painting		
	b. Drawing c. Artwork		
	d. Installation		
Q 15	By joining line you can create:	1.5	CO2
	a. Colour	-	
	b. Space		
	c. Shape		
	d. Texture		

0.16	Which term hast describes what the elements of design are?	1.5	CO2
Q 16	Which term best describes what the elements of design are?	1.3	002
	a. Equipment and materials used to create artwork and designs. e.g. pencil, paper,		
	brushes and paint b. The essential and most basic components used to construct all designs and images		
	c. They many ways in which we combine our images, symbols and type to create		
	designs  d. The bet part of a stove was for eaching up tosty designs		
0.17	d. The hot part of a stove use for cooking up tasty designs.	1 5	CO2
Q 17	Red, yellow, orange are	1.5	CO2
	a. Primary colors		
	b. Secondary colors		
	c. Cool colors		
0.10	d. Warm colors	1.5	602
Q 18	The "line" is a natural or man-made element.	1.5	CO2
Q 19	are a group of colours from which all other colours can be made.	1.5	CO2
Q 20	The area within or around a shape is called	1.5	CO2
	a. Line		
	b. Dot		
	c. Shape		
	d. Space		
	Section B		
	(4Qx5M=20 Marks)		T = 0.0
Q 21	Discuss the additive color scheme and explain its basis (2.5+2.5 = 5 marks)	5	CO2
Q 22	Describe any five elements of design.	5	CO2
Q 23	Sketch five inorganic objects around you.	5	CO3
Q 24	Illustrate the following textures using dots: (1.25 marks each)	5	CO3
	a. Rough		
	b. Smooth		
	c. Fluffy		
	d. Grainy		
	Section C		
	(2Qx15M=30 Marks)		
Q 25	Draw a color wheel. (6 marks)	15	CO4
	Identify and illustrate an example (consisting of two or three colors) of the following		
	color schemes from the color wheel:		
	a. Monochromatic color scheme (3 marks)		
	b. Analogous color scheme (3 marks)		
	c. Complementary color scheme (3 marks)		

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Q 26	Observe the geometric pattern shown below:	15	CO5
	a. Assess the pattern and identify repeating element(s). (3 marks)		
	b. Create four new patterns using any one element or combination of elements from		
	the above geometric pattern. (3*4 = 12 marks)		
	Section D		
	(2Qx10M=20 Marks)		
Q 27	As part of your course, you conducted a study on textures. Outline the following	10	CO3
	details about your study:		
	a. Aim of the study (3 marks)		
	b. Protocol or methodology of the study (4 marks)		
	c. Results of the study (3 marks)		
Q28	a. Identify and analyze the condition for the creation of a tessellation. (3 marks)	10	CO4
	b. Draw a tessellation using tessellating equilateral triangles and squares. Use two		
	different color to represent each shape. (7 marks)		