

CBSE | DEPARTMENT OF SKILL EDUCATION

DESIGN (SUBJECT CODE -830)

Blue-print for Sample Question Paper for Class XII (Session 2022-2023)

Max. Time: 2Hours

Max. Marks: 50

PART A - EMPLOYABILITY SKILLS (10 MARKS):

S. NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANSWER TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	
1	Self-Management Skills - IV	2	2	4
2	ICTSkills - IV	2	1	3
3	Entrepreneurial Skills - IV	2	2	4
TOTAL QUESTIONS		6	5	11
NO. OF QUESTIONS TO BE ANSWERED		Any 4	Any 3	07
TOTAL MARKS		1 x 4 = 4	2 x 3 = 6	10 MARKS

PART B - SUBJECT SPECIFIC SKILLS (40 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANSWER TYPE QUESTIONS	DESCRIPTIVE/ LONG ANS. TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	4 MARKS EACH	
1.	Design Thinking	10	2	1	14
2.	Design tools and techniques	8	2	2	11
3.	Occupational health and safety	6	2	2	10
TOTAL QUESTIONS		24	6	5	35
NO. OF QUESTIONS TO BE ANSWERED		20	Any 4	Any 3	27
TOTAL MARKS		1 x 20 = 20	2 x 4 = 8	4 x 3 = 12	40 MARKS

CBSE | DEPARTMENT OF SKILL EDUCATION

DESIGN (SUBJECT CODE -830)

Sample Question Paper for Class XII (Session 2022-2023)

Max. Time: 2 Hours

Max. Marks: 50

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of **21 questions** in two sections: Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. **Out of the given (5 + 16 =) 21 questions, a candidate has to answer (5 + 10 =) 15 questions in the allotted (maximum) time of 2 hours.**
5. All questions of a particular section must be attempted in the correct order.
6. **SECTION A - OBJECTIVE TYPE QUESTIONS (24 MARKS):**
 - i. This section has 05 questions.
 - ii. Marks allotted are mentioned against each question/part.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.
7. **SECTION B – SUBJECTIVE TYPE QUESTIONS (26 MARKS):**
 - i. This section has 16 questions.
 - ii. A candidate has to do 10 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.


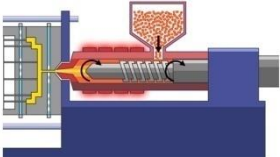
SECTION A: OBJECTIVE TYPE QUESTIONS

Q. 1	Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)	
i.	Harish has a rug business in India. He wants to start exporting rugs to Canada but does not know if they would sell there. The barrier he is facing is _____ a) Self doubt b) Lack of plan c) Selecting the right business idea d) Getting capital	1
ii.	What happens when you change the layout of a slide? a) The format of the text changes b) New slide is inserted c) The arrangement of content (text, images, shapes) changes d) The title gets aligned to the center of the slide	1
iii.	A _____ is a systematic display of information. It consists of a number of slides containing text, videos, images and graphs. a) Presentation b) Database c) Spreadsheet d) Word processing	1
iv.	This personality disorder is marked by an overreliance on other people to meet one's emotional and physical needs a) Dependent b) Obsessive c) Avoidant d) Borderline	1
v.	Mona is helping her sister to overcome a personality disorder. What should she do? a) Talk to her sister b) Engage her in hobbies c) Help her build confidence d) All of the above	1
vi.	Salman tries new ideas as a tailor in a garment factory. Salman is a/an _____ a) Entrepreneur b) Wage employed person c) Laborer d) Unskilled Worker	1

Q. 2	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	When Juicero launched its extravagant juicing machine, it was met with jabs and jeers because it charged a premium price for what anyone can do with their hands—squeeze fresh juice from a packet. It managed to raise \$120 million in investments but suspended sales 16 months after launching. Ultimately, the product brought very little value to juice-lovers because it solved a non-existent problem. Not every idea should be executed, and a well-framed	1

	<p>problem statement can help determine which ones should just stay in the sketchbook.</p> <p>Juicero as a product failed because:</p> <ul style="list-style-type: none"> a) It doesn't solve the purpose b) Company worked on the problem which does not even exist. c) Expensive product d) All of these 	
ii.	<p>Which step of the design process did company miss?</p> <ul style="list-style-type: none"> a) Empathise b) Define c) Ideate d) Test 	1
iii.	<p>_____ is the objectives of testing a prototype in design thinking.</p> <ul style="list-style-type: none"> a) To reveal new solutions to problems, or to find out whether or not the implemented solutions have been successful. b) If you don't understand the person who will be using the thing you're trying to create, it simply won't work. c) Both the above 	1
iv.	<p>With a solid understanding of your users and a clear problem statement in mind, it's time to start working on potential solutions. Which phase is this?</p> <ul style="list-style-type: none"> a) Prototype b) Testing c) Ideate d) Refine 	1
v.	<p>Points that are connected by straight or curving lines are seen in a way that follows the smoothest path.</p> <ul style="list-style-type: none"> a) Gestalt Law of Continuity b) Gestalt Law of Symmetry c) Gestalt Law of Closure d) Gestalt Law of Synchrony 	1
vi.	<p>Hema wants to buy a dress which she feels comfortable wearing in all the seasons. Which fabric she should consider for the dress?</p> <ul style="list-style-type: none"> a) Polyester b) Cotton c) Rayon d) Woolen 	1

Q. 3	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	Which of the following tool should a carpenter use to make intricate circles, patterns or designs in timber?	1

	<ul style="list-style-type: none"> a) Shapers b) Routers c) Table saws d) Chisel mortisers and chains 	
ii.	<p>A social research technique based on studying people's behaviour in everyday contexts, rather than under controlled conditions</p> <ul style="list-style-type: none"> A. Ethnography B. Card Sorting C. Survey D. Contextual Enquiry 	1
iii.	<p>The elements moving in the same direction are perceived as more related than the same elements moving in different directions</p> <ul style="list-style-type: none"> a) Law of synchrony b) Order and symmetry c) Simplicity d) None of the above 	1
iv.	<p>Which Gestalt principle is followed in this design</p> <ul style="list-style-type: none"> a) Law of synchrony b) Law of figure and ground c) Law of closure d) Law of proximity 	1
v.	<p>Identify the picture and name the process demonstrated given below.</p> <ul style="list-style-type: none"> a) Plastic Injection Molding Process b) Plastic Extrusion Molding Process c) Extrusion blow molding process d) Ejection Blow molding process 	1
vi.	<p>Health surveillance means</p> <ul style="list-style-type: none"> a) To monitor and protect the health of individual employees b) Health and safety for small and medium woodworking shops c) Ensure sanitary facilities for the workers to encourage personal hygiene. 	1

Q. 4	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	<p>Read the following statements about design thinking and find out which of these is correct</p> <ul style="list-style-type: none"> I. Design thinking is useful to define problems 	1

	<p>II. Design thinking is useful to solve problems</p> <p>III. Design thinking involves taking feedback from users after product is launched.</p> <p>IV. When design thinking is applied by companies, their financial growth is exponential.</p> <p>a) Statement I and iii are correct</p> <p>b) Statement I, ii and iv are correct</p> <p>c) Statement ii and iv are correct</p> <p>d) All statements are correct</p>	
ii.	<p>Approach to encourage and facilitate employees to enhance healthy lifestyle is called</p> <p>a) health promotion</p> <p>b) safety promotion</p> <p>c) wellness promotion</p> <p>d) none of above</p>	1
iii.	<p>The most commonly used tree species for furniture production is</p> <p>a) Pine</p> <p>b) Paulownia spp.</p> <p>c) Rosewood</p> <p>d) All the above</p>	1
iv.	<p>What safety hazard is known to cause serious lung issues for mill workers?</p> <p>a) Cotton dust</p> <p>b) Fires</p> <p>c) Dangerous machines</p> <p>d) Explosions</p>	1
v.	<p>Materials come under three basic categories:</p> <p>a) Metals & non-metals, Glasses</p> <p>b) Metals, ceramics and polymers</p> <p>c) Ceramics, Glasses, Hybrid composite materials</p>	1
vi.	<p>Hand weaving is done on _____ generally located in weavers' homes.</p> <p>a) pit looms or frame looms</p> <p>b) Power loom</p> <p>c) Water jet loom</p> <p>d) Rapier loom</p>	1

Q. 5	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	<p>The process of taking up includes:</p> <p>a) The filling yarn is inserted through the shed</p> <p>b) The yarns are passed through the eyeholes of the heddles.</p> <p>c) Newly constructed fabric must be wound on a cloth beam</p>	1
ii.	<p>Design thinking typically helps in _____</p> <p>a) Data analytic</p> <p>b) Financial planning</p> <p>c) Operational efficiency</p> <p>d) Innovation</p>	1

iii.	Paulownia and Populus are one of the major species of _____ a) Particle Board b) Plywood c) Timber d) Fiber Board	1
iv.	A method for generating ideas to solve a design problem, which usually involves a group: a) Visual thinking b) Observational skill c) Brainstorming d) Creative thinking	1
v.	Engineering of a product comes into play in a) Empathize b) Define c) Ideate d) Prototype	1
vi.	The twisting together of drawn-out strands of fibers to form yarn is a) Knitting b) Knotting c) Spinning d) Weaving	1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills (2 x 3 = 6 marks)

Answer each question in 20 – 30 words.

Q. 6	Explain any two values which make an entrepreneur.	2
Q. 7	What is obsessive compulsive personality disorder?	2
Q. 8	What do you understand by attitude?	2
Q. 9	Write four steps to insert a text box in a slide.	2
Q. 10	List any two points of importance of self motivation.	2

Answer any 4 out of the given 6 questions in 20 – 30 words each (2 x 4 = 8 marks)

Q. 11	What are fiber board industries?	2
Q. 12	Define Ideation in design.	2
Q. 13	What is the role of PPE in workplace safety?	2
Q. 14	Explain Gestalt's Law of Continuity.	2
Q. 15	Write 2 advantages of hot & cold working process in metal manufacturing industry.	2
Q. 16	What is empathy mapping and how it is used?	2

Answer any 3 out of the given 5 questions in 50– 80 words each (4 x 3 = 12 marks)

Q. 17	What safety procedures should you follow when using woodworking machines?	4
Q. 18	Explain all the steps wood goes through to become a beautiful and comfortable piece of furniture.	4
Q. 19	What are the essential requirements of a good product design?	4
Q. 20	What's the difference between Solution-Based and Problem-Based Thinking?	4
Q. 21	Explain the risk assessment in manufacturing industry.	4