

CBSE | DEPARTMENT OF SKILL EDUCATION

DESIGN (SUBJECT CODE -830)

Blue-print for Sample Question Paper for Class XII (Session 2023-2024)

Max. Time: 2 Hours

Max. Marks: 50

PART A - EMPLOYABILITY SKILLS (10 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANSWER TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	
1	Communication Skill – IV	1	1	2
2	Self-Management Skills – IV	2	1	3
3	ICT Skills – IV	1	1	2
4	Entrepreneurial Skills – IV	1	1	2
5	Green Skills – IV	1	1	2
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.	Introduction to Design	9	2	1	12
2.	Design tools and techniques	5	1	1	7
3.	Occupational health and safety	5	1	1	7
4.	Practical Workshop	5	2	2	9
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

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Max. Time: 2 Hours

Max. Marks: 50


General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of **20 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 + 15 =) 20 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 15 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.

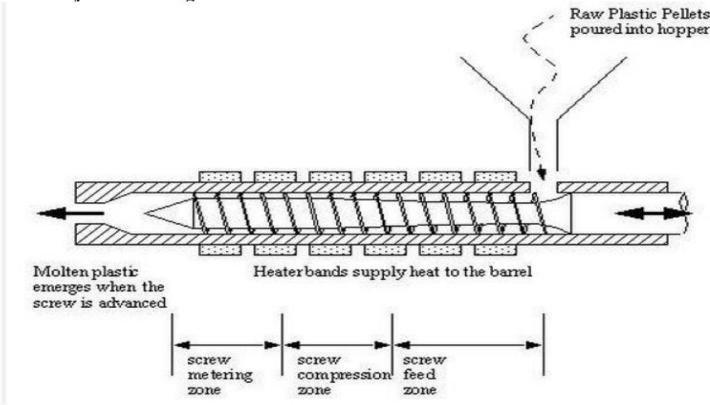
SECTION A: OBJECTIVE TYPE QUESTIONS

Q. 1	Answer any 4 out of the given 5 questions on Employability Skills (1 x 4 = 4 marks)	
i.	The communication which helps to understand others' thoughts and feelings: a) Verbal Communication b) Non-verbal Communication c) Visual Communication d) Written Communication	1
ii.	Having conscious knowledge of your own self, capabilities, feelings and one's own character is called as _____. a) Self- Awareness b) Self- Motivation c) Self- Regulation d) Self- Assessment	1
iii.	Which of the following is NOT a physical sign of stress? a) Dry mouth b) Guilt c) Fatigue d) Cold hands	1
iv.	This allows the user to change various settings in a computer: a) Search Box b) Taskbar c) Control Panel d) Recycle Bin	1
v.	Which of the following is the Managerial function of an entrepreneur? a) Idea discovery b) Planning c) Detailed investigation d) Assembling the requirements	1
vi.	One of the best solutions to get rid of non-biodegradable waste is: a) Burning b) Dumping c) Recycling d) Burying	1

Q. 2	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	A _____ is a scale down version of a product. a) empathize b) define c) ideate d) prototype	1
ii.	The fabrics made of warp and weft yarns are called_____. a) Knitted b) Woven c) Non- woven d) Felt	1
iii.	Write full form of term OHS? a) obesity hypoventilation and syndrome b) overhead hoist and shuttle c) occupational health and syndrome d) occupational health and safety.	1
iv.	Which is a raster editing software? a) Illustrator b) In-design c) Photoshop d) Cad-pro	1
v.	In which gestalt's law we automatically fill in gaps between elements to perceive a complete image? a) Law of proximity b) Law of closure c) Law of similarity d) Law of figure/ground	1
vi.	_____consists in imagining and creating objects meant for mass production which encompasses the physical aspects as well as the functionalities products should possess. a) Research b) Product design c) Casting d) Molding	1

Q. 3	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	UCD in design stand for: - a) Under construction daily b) User centric design c) Ultrasonic Coagulation Device	1
ii.	This state Gained immense popularity for carving inlaying ivory which is now replaced with plastic to cut down on the cost. a) Saharanpur b) Hoshiarpur c) Kashmir d) Gujrat	1
iii.	When the newest version of ILO updated? a) 2005 b) 2006 c) 2008 d) 2009	1
iv.	_____ is the use of natural products and energy in a way that does not harm the environment. a) Agriculture b) sustainability c) organic d) economic	1
v.	This Research tool involves 5 to 10 participants and chaired by an impartial moderator. a) Focus Group b) Card Sorting c) Ethnography – Contextual Enquiry d) Shadowing	1
vi.	Identify the picture and name the process:  a) Ring rolling b) Roll bending c) Extrusion d) Straight bending	1

Q. 4	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	<p>It helps the designers in building understanding and gaining knowledge about the product domain, business needs, stakeholders including the end user need, their context, their aspirations and their experiences that helps us creating user models such as personas, user needs and how they would like to fulfill their needs, articulating business goals that may affect features and functions, understanding technical constraints and limitations.</p> <p>a) Testing b) Research c) Prototype d) Deliver</p>	1
ii.	<p>Process exploit fluidity of metal in liquid state as it takes shape and solidifies in a mold.</p> <p>a) Casting b) Deformation c) Joining d) machining</p>	1
iii.	<p>_____ covers any injury, damage or disorder of joints, tissue in upper limb, lower limbs or back.</p> <p>a) Asthma b) Drowsiness c) Musculoskeletal disorder d) Carcinogenic</p>	1
iv.	<p>Which attribute or quality of a product you will design for visually impaired person?</p>	1
v.	<p>MSDS stands for: -</p> <p>a) Material safety data sheet b) Material safe delete sheet c) Material safety document sheet d) Material safety drawing sheet</p>	1
vi.	<p>The _____ phase of design thinking is getting to know the user and understanding their wants, needs and objectives.</p> <p>a) Test b) prototype c) Empathize d) define</p>	1

Q. 5	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	<p>These are four principles of Design Thinking. One of these is: while technology and Social circumstances may change, basic human needs remain unchanged. Which Principle is this?</p> <p>a) The Human rule b) The redesign rule c) The ambiguity rule d) The tangibility rule</p>	1
ii.	<p>Identify the following picture:</p>  <p>a) injection molding process b) plastic extrusion molding process c) extrusion blow molding d) blow molding process</p>	1
iii.	<p>The substances used in ply board that may cause respiratory problem including asthma are:</p> <p>a) formaldehyde and resin b) styrene vapors c) dust particles d) plastic fumes</p>	1
iv.	<p>Which software do you use to make design documents?</p> <p>a) Photoshop b) Pro 100 c) Illustrator d) InDesign</p>	1
v.	<p>This thinking focus on finding solutions, coming up with something constructive to tackle the problem:</p> <p>a) Problem based b) Solution based c) Wicked problem d) Creativity</p>	1

vi.	_____ design is the design of user interface for machines such as computer, mobile, home appliances with the focus on maximizing usability. a) Interface design b) Functional design c) Structural design d) Architectural design	1
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SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 4 questions on Employability Skills (2 x 3 = 6 marks)

Answer each question in 20 – 30 words.

Q. 6	Write the steps to print a spreadsheet.	2
Q. 7	Explain any two qualities of an entrepreneur.	2
Q. 8	Write any two benefits of green job.	2
Q. 9	How will you minimize waste and pollution from the environment?	2

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

Q. 10	Write the benefits of design thinking at work.	2
Q. 11	Explain basic motions of loom.	2
Q. 12	Write the most common cause of injuries and illness in iron and steel industry.	2
Q. 13	Write a report on any one architecture monument of national repute.	2
Q. 14	Write the various tools of empathize phase.	2
Q. 15	Critique the design of display and control of computer.	2

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

Q. 16	Explain the five phases of design thinking.	4
Q. 17	What is Risk Matrix? Explain risk matrix grid with the help of diagram.	4
Q. 18	What are the different stages of furniture production? Explain in detail.	4
Q. 19	List down the various tools used in In-Design software with its diagram.	4
Q. 20	What do understand by Sustainable design? How can you follow sustainability in product design?	4