

CBSE | DEPARTMENT OF SKILL EDUCATION

DESIGN (SUBJECT CODE - 830)

MARKING SCHEME 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. There is no negative marking.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.
7. **SECTION B – SUBJECTIVE TYPE QUESTIONS (26 MARKS):**
 - i. This section contains 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. No.	QUESTION	Source Material (NCERT/PSSCIVE/ CBSE Study Material)	Unit/ Chap. No.	Page no. of source material	Marks
Q. 1	Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)				
i.	a) Self doubt	NCERT	Unit 4	95	1
ii.	C) The arrangement of content (text, images, shapes) changes	NCERT	Unit 3	78	1
iii.	a) Presentation	NCERT	Unit 3	63	1
iv.	a) Dependent	NCERT	Unit 2	36	1
v.	d) All of the above	NCERT	Unit 2	38	1
vi.	b) Wage employed person	NCERT	Unit 4	91	1
Q. 2	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)				
i.	d) All of these	CBSE Study Material	Unit 1		1
ii.	a) Empathise	CBSE Study Material	Unit 1	28	1
iii.	b) COSHH assessments.	CBSE Study Material	Unit 3	125	1
iv.	c) Ideate	CBSE Study Material	Unit 1	35	1
v.	a) Gestalt Law of Continuity	CBSE Study Material	Unit 2	48	1
vi.	d) All of the above	CBSE Study Material	Unit 3	123	1

Q. 3	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)				
i.	b) Routers	CBSE Study Material	Unit 2	88	1
ii.	a) Ethnography	CBSE Study Material	Unit 1	30	1
iii.	a) Law of synchrony	CBSE Study Material	Unit 1	49	1
iv.	c) Law of closure	CBSE Study Material	Unit 1	45	1
v.	a) Plastic Injection Molding Process	CBSE Study Material	Unit 2	117	1
vi.	a) To monitor and protect the health of individual employees	CBSE Study Material	Unit 3	128	1
Q. 4	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)				
i.	d) All statements are correct	CBSE Study Material	Unit 1	12	1
ii.	a) health promotion	CBSE Study Material	Unit 3	130	1
iii.	b) Paulownia spp.	CBSE Study Material	Unit 2	83	1
iv.	c) Material Safety Data Sheet	CBSE Study Material	Unit 3	132	1
v.	b) Metals, ceramics and polymers	CBSE Study Material	Unit 2	68	1
vi.	a) Pit looms or frame looms	CBSE Study Material	Unit 2	72	1
Q. 5	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)				
i.	a) Dermatitis (skin disease)	CBSE Study Material	Unit 3	132	1
ii.	d) Innovation	CBSE Study Material	Unit 1	11	1
iii.	c) Timber	CBSE Study Material	Unit 2	83	1
iv.	d) Creative thinking	CBSE Study Material	Unit 1		1
v.	d) Prototype	CBSE Study Material	Unit 1	20	1
vi.	c) Spinning	CBSE Study Material	Unit 2	70	1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Q. No.	QUESTION	Source Material (NCERT/PSSCIVE/ CBSE Study Material)	Unit/ Chap. No.	Page no. of source material	Marks
Answer any 3 out of the given 5 questions on Employability Skills in 20 – 30 words each (2 x 3 = 6 marks)					
Q. 6	Honesty, passion, determination, and confidence.	NCERT	Unit 4	106	2
Q. 7	Obsessive-compulsive personality disorder: People with such a disorder strongly stick to rules and regulations. They feel extremely uncomfortable when unable to achieve perfection.	NCERT	Unit 2	37	2
Q. 8	An attitude is a way of thinking or feeling about something. It can be positive or negative, good or bad. We shall learn about positive attitudes of entrepreneurs.	NCERT	Unit 4	96	2

Q. 9	Open the Insert tab. In Text group click the Text Box command. Click on the slide and drag the cursor until text box takes the desired width. Then release the mouse.	NCERT	Unit 3	69	2
Q. 10	1. It increases individual's energy and activity. 2. It directs an individual towards specific goals.	NCERT	Unit 2	24	2
Answer any 4 out of the given 6 questions in 20 – 30 words each (2 x 4 = 8 marks)					
Q. 11	Fiber board is constituted using sheet materials of widely varying diversities manufactured from refined or partially refined wood fibers or other vegetable fibers.	CBSE Study Material	Unit 2	83	2
Q. 12	This manufacturing unit involves machineries having higher rotary and travelling speeds. These speeds can cause noise pollution resulting in headache and dizziness. Continuous inhalation of cotton dust result in lung diseases and their symptoms involve tightening of chest, coughing and shortness of breath.	CBSE Study Material	Unit 3	35	2
Q. 13	PPE is equipment that will protect the user against the risk of accidents or of adverse effects on health.	CBSE Study Material	Unit 3	132	2
Q. 14	The Gestalt Principle of Continuity states that we are more likely to see continuous and smooth flowing lines rather than broken or jagged ones. This is because once our eyes begin to follow something; they will continue to travel in that direction until it encounters another item or object.	CBSE Study Material	Unit 1	48	2
Q. 15	The advantages of cold working are: 1. No heating is required 2. Better surface finish is obtained The advantages of hot working are: 1. No strain hardening 2. Lesser forces are required for deformation	CBSE Study Material	Unit 2	99	2
Q. 16	An empathy map is a collaborative tool teams can use to gain a deeper insight into their customers. Much like a user persona, an empathy map can represent a group of users, such as a customer segment.	CBSE Study Material	Unit 1	34	2

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

<p>Q. 17</p>	<ul style="list-style-type: none"> -Always wear safety glasses or goggles, or face shield. -Wear hearing protection that is suitable for the level and frequency of the noise you are exposed to in the woodworking shop. -Inspect regularly. Regularly inspect machines to make sure that they are in good condition. -Wear gloves. - Be aware of your surroundings. - Use the right tools. - Follow instructions. 	<p>CBSE Study Material</p>	<p>Unit 3</p>	<p>123</p>	<p>4</p>
<p>Q. 18</p>	<p>Stage 1 – furniture design - Before producers start producing furniture, they must be designed. Designers have many ideas for furniture in various styles.</p> <p>Stage 2 – Selection of materials for the production of furniture - The furniture production process begins with the preparation of the right material.</p> <p>Stage 3- Shearing and transport - In the next stage, the trees of selected species are cut out.</p> <p>Stage 4 – Drying - The process of drying wood is extremely important, because it has a big impact on the quality of manufactured furniture.</p> <p>Stage 6 – Execution of individual pieces of furniture - The next stage in creating furniture is to make all the elements of a particular piece of furniture in accordance with the design.</p> <p>Stage 7 – Grinding - Each cut part after the finished stage goes to the appropriate departments. It's polished there.</p> <p>Stage 8 – Painting and varnishing - The next stage of furniture production is giving it a final look. To give the wood shine and make it resistant to water, each piece of furniture overlaps with the preservative layer.</p> <p>Stage 9 – Packaging and transporting items to the store. Finished furniture elements are packed and prepared for transport.</p> <p>Stage 10 – Assembly of furniture. The packaging in which the furniture is located is accompanied by instructions.</p>	<p>CBSE Study Material</p>	<p>Unit 2</p>	<p>89</p>	<p>4</p>

Q. 19	<p>1. Function. The product must be designed in such a way that it optimally performs the main task or function for which it is purchased by a buyer.</p> <p>2. Repairability.</p> <p>3. Reliability.</p> <p>4. Aesthetics.</p> <p>5. Durability.</p> <p>6. Producibility.</p> <p>7. Simplicity.</p> <p>8. Compact</p>	CBSE Study Material	Unit 1	66	4
Q. 20	<p>Solution-based thinking focuses on finding solutions; coming up with something constructive to effectively tackle a certain problem. This is the opposite of problem-based thinking, which tends to fixate on obstacles and limitations. Focusing too much on a problem makes you feel powerless, whereas focusing on solutions makes you feel empowered. Choose solution-oriented thinking to feel happier and more capable of changing the situations in your life. Some focus on the problem or the reason why a problem emerged (problem focused thinking). Others prefer to think about possible solutions that help them to solve a problem (solution focused thinking).</p>	CBSE Study Material	Unit 1	12	4
Q. 21	<p>A risk assessment is a process of determining potential workplace safety and health hazards through collected information or workplace inspection, investigating incidents, and implementing controls for the hazards, prioritizing the most severe hazards first. Much of safety risk management quality revolves around the ability to adequately assess various safety elements such as: Risk control adequacy Likelihood of hazard or mishap occurring Severity of mishap What kinds of measures are needed to reduce exposure?</p> <p>The ability to control these elements will depend on the ability to assess them. Poor assessments lead to poor controls. Assessments include: Risk analysis and A risk matrix.</p>	CBSE Study Material	Unit 3	137	4