

CBSE | DEPARTMENT OF SKILL EDUCATION

DESIGN (SUBJECT CODE: 830)

CLASS XII (SESSION 2021-2022)
BLUE-PRINT FOR SAMPLE QUESTION PAPER FOR TERM -1

Max. Time Allowed: 60 Min. (1 Hr.)

Max. Marks: 25

PART A - EMPLOYABILITY SKILLS (05 MARKS):

UNIT NO.	NAME OF THE UNIT	NO. OF QUESTIONS (1 MARK EACH)
1	Communication Skills-IV	2
2	Self-Management Skills-IV	2
3	Information and Communication Technology Skills-IV	2
TOTAL QUESTIONS		6 Questions
NO. OF QUESTIONS TO BE ANSWERED		Any 5 Questions
TOTAL MARKS		1 x 5 = 5 marks

PART B - SUBJECT SPECIFIC SKILLS (20 MARKS):

UNIT NO.	NAME OF THE UNIT	NO. OF QUESTIONS (1 MARK EACH)
	Unit 1: Introduction to Design	
	Unit 2: Design Tools & Techniques	
TOTAL QUESTIONS		27 Questions
NO. OF QUESTIONS TO BE ANSWERED		20 Questions
TOTAL MARKS		1 x 20 = 20 marks

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Max. Time Allowed: 60 Minutes (1 Hr.)

Max. Marks: 25

General Instructions:

1. Please read the instructions carefully
2. This Question Paper is divided into 03 sections, viz., Section A, Section B and Section C.
3. Section A is of 05 marks and has 06 questions on Employability Skills.
4. Section B is of 15 marks and has 20 questions on Subject specific Skills.
5. Section C is of 05 marks and has 07 competency-based questions.
6. Do as per the instructions given in the respective sections.
7. Marks allotted are mentioned against each Section/question.
8. All questions must be attempted in the correct order

SECTION A

Answer any 5 questions out of the given 6 questions on Employability Skills (1 x 5 = 5 marks)

1.	To select consecutive multiple slides hold down the <ol style="list-style-type: none">a. Shift Key and select the slidesb. CTRL Key and select the slidesc. TAB Key and select the slidesd. ALT Key and select the slides	1
2.	_____ communication include tone of voice, body language, facial expression etc. <ol style="list-style-type: none">a. Non verbalb. Verbalc. Letterd. Notice	1
3.	This personality disorder is marked by an over-reliance on other people to meet one's emotional and physical needs <ol style="list-style-type: none">a. Dependentb. Obsessivec. Avoidantd. Borderline	1

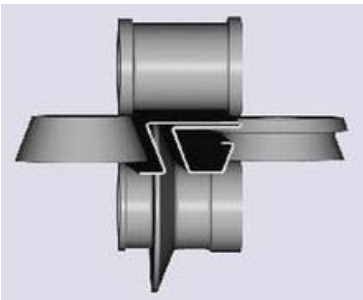
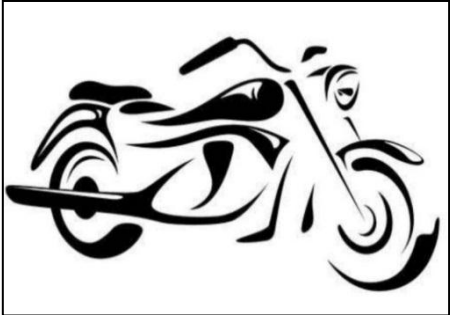
4.	The term HTTP stands for? a. Hypertext terminal tracing language b. Hypertext tracing protocol c. Hypertext transfer protocol d. Hypertext transfer program.	1
5.	Which of the following best describes time management? a. Work completed in a defined time period b. Planning the amount of time we spend on certain activities to increase productivity. c. Tracking of work output overtime d. Tracking of department tasks that need to be completed	1
6.	Groupthink is _____ a. Negotiation of a solution as part of the group b. Learning to compromise to fit within the group c. A meeting where everyone shares their ideas d. Social pressure put on individuals to think in a particular way	1

SECTION B

Answer any 15 questions out of the given 20 questions

(1 x 15 = 15 marks)

7.	Industrial cleaning process of fiber or fabric from dirt and grease is _____ process. a. Scouring b. Combing c. Carding d. Calendaring	1
8.	Floral woven pattern can be created by using _____ loom. a. Dobby loom b. Jacquard loom c. Pit loom d. d. Frame loom	1
9.	_____ is the numerical expression which defines the finesse of yarn. a. GSM b. PPI c. Yarn count. d. None of the above	1
10.	The life cycle of a product has four stages – a. Introduction, growth, maturity and decline. b. Define, Empathy, Ideate, Testing c. Simplicity, durability, aesthetic, reliability d. Discover, define, Dream, Design	1

11.	<p>Examples of non-ferrous metal are</p> <ul style="list-style-type: none"> a. Aluminium b. Copper c. Gold d. All of the above 	1
12.	<p>_____ is one of the principles of design thinking.</p> <ul style="list-style-type: none"> a. The tangibility rule b. Creative problem solving c. Implies intention, meaning, and purpose d. The dialogue between products, people, and contexts. 	1
13.	<p>Identify the picture and name the process demonstrated in the image given below</p>  <ul style="list-style-type: none"> a. Roll Bending b. Roll forming c. Flat Rolling d. Ring Rolling 	1
14.	<p>Match stick, paper and pulp industries depends majority on</p> <ul style="list-style-type: none"> a. Textile industry b. Forest industry c. Match industry d. Particle board industry 	1
15.	<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
16.	<p>Which of the following is not a soft wood?</p> <ul style="list-style-type: none"> a. Rose wood b. Pine wood c. Birch wood d. Cedar 	1
17.	<p>Stages of fabric formation</p> <ul style="list-style-type: none"> a. Yarn, weaving, finishing b. Fiber, yarn, fabric c. Fiber, weaving, dyeing d. Fiber, yarn, finishing 	1

18.	<p>Human centric design is the process of creating products with</p> <ul style="list-style-type: none"> a. Human psychology and user perception in mind b. Aesthetic importance in mind c. Affordability in mind d. Costing in mind 	1										
19.	<p>Match List 1 with list 2 and select the correct answer using the code given below the Lists :</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 50%;">List 1</td> <td style="text-align: center; width: 50%;">List 2</td> </tr> <tr> <td>A. Powerloom</td> <td>i. Vacuum Forming</td> </tr> <tr> <td>B. Woodworking</td> <td>ii. Rolling</td> </tr> <tr> <td>C. Metalworking</td> <td>iii. Jointers</td> </tr> <tr> <td>D. Plastic</td> <td>iv. Battening</td> </tr> </table> <ul style="list-style-type: none"> a. A-ii, B-iv, C-i, D-iii b. A-i, B-ii, C-iv, D-iii, c. A-iv, B-iii, C-ii, D-i d. A-iii, B-i, C-iii, D-iv 	List 1	List 2	A. Powerloom	i. Vacuum Forming	B. Woodworking	ii. Rolling	C. Metalworking	iii. Jointers	D. Plastic	iv. Battening	1
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C. Metalworking	iii. Jointers											
D. Plastic	iv. Battening											
20.	<p>PET or PETE is also known as</p> <ul style="list-style-type: none"> a. Acrylonitrile butadiene styrene b. Polyvinyl chloride c. Polyethylene Terephthalate d. Polyether ether ketone 	1										
21.	<p>Glasses do not have a crystalline structure, but they belong to the ____ group because they share similar properties</p> <ul style="list-style-type: none"> a. Metal b. Ceramics c. Polymers d. Elastomers 	1										
22.	<p>Linen is obtained from _____ plant</p> <ul style="list-style-type: none"> a. Jute b. Flax c. Hemp d. Pina 	1										
23.	<p>Which of the following is not true for cold working of metals?</p> <ul style="list-style-type: none"> a. Residual stresses are set up in the metal. b. Stress required to cause deformation is less than the hot working of metals. c. It reduces the corrosion resistance of the metal. d. Distortion of grains takes place in most of the cold working processes 	1										
24.	<p>Ethnography is a research tool used for _____ people.</p> <ul style="list-style-type: none"> a. Observing b. Interviewing c. Enquiring d. Discussing 	1										

25.	<p>What happens in the test stage of design thinking?</p> <ol style="list-style-type: none"> You conduct a written test of your design team. You allow consumers to test a product or service. You engage in internal testing with employees. You test products designed by competitors. 	1
26.	<p>Which process is used to manufacture plastic pipes?</p> <ol style="list-style-type: none"> Injection Moulding Extrusion Moulding Blow moulding Vacuum forming 	1

SECTION C
(COMPETENCY BASED QUESTIONS)

Answer any 5 questions out of the given 7 questions

(1 x 5 = 5 marks)

27.	<p>Rahul gets an opportunity to design mask for specially-abled children. They are deaf and use hearing aid. Rahul designs beautiful mask with good colour combination and cartoon printed on it, but design will not serve the purpose because it was like normal mask with ear looping elastic. Which stage did Rahul go wrong in design</p> <ol style="list-style-type: none"> Empathize Prototype Ideate Test 	1
28.	<p>Designer Sheetal works only with natural fabric for clothing collection. One of the vendor supplies fabric swatches for her next collection. How can Sheetal identify easily if the fabric is natural or synthetic Fabric?</p> <ol style="list-style-type: none"> Microscope test Burning test Chemical test Tactile testing. 	1
29.	<p>Which fiber is most suitable for children's clothing due to its high absorbency and comfort properties?</p> <ol style="list-style-type: none"> Nylon Cotton Polyester Microfiber 	1

<p>30.</p>	<p>The site wants to adapt design thinking process to attract more customers. What tool would be the quickest way to get a feedback from the users of the site for the initial empathize stage?</p> <ul style="list-style-type: none"> a. Ethnographic focus groups b. Data tracking c. Detailed interviews over a phone call d. Pop-up survey on how to make the experience enjoyable 	<p>1</p>
<p>31.</p>	<p>You are conducting user research for a project to design a coffee sipper, which of the following details you would not take off users.</p> <ul style="list-style-type: none"> a. Daily coffee intake b. Hand measurement c. Disability while standing d. Economic background 	<p>1</p>
<p>32.</p>	<p>Following is an extract from a case study:</p> <p>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.</p> <p>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 problem statement can help determine which ones should just stay in the sketchbook.</p> <p>Which step of the design process did the company miss?</p> <ul style="list-style-type: none"> a. Empathise b. Define c. Ideate d. Test 	<p>1</p>
<p>33.</p>	<p>Read the following statements and find out which of these is correct objective of testing a prototype:</p> <ul style="list-style-type: none"> i. To reveal new solutions to problems, or to find out whether the implemented solutions have been successful. ii. If you don't understand the person who will be using the thing you're trying to create, it simply won't work. iii. The objective of a testing a prototype is taking feedback from users after the product is launched iv. Testing prototyping applied by companies for their financial growth is exponential. <ul style="list-style-type: none"> a. Statement i and ii are correct b. Statement iii and iv are correct c. Statement iv is correct d. Statement iii is correct 	<p>1</p>