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## UPHOLSTERY

### SCHEME OF THE EXAMINATION

There will be three papers, Papers 1, 2 and 3, all of which must be taken.

Papers 1 and 2 shall be a composite paper to be taken at one sitting.

Paper 1: will consist of forty multiple-choice objective questions all of which are to be answered in 1 hour for 40 marks.

Paper 2: will consist of four short-structured questions. Candidates will be required to answer any three questions in 1 hour for 60 marks.

Paper 3: will be a practical test of 2 hours duration. It will consist of one question for 100 marks.

A list of material for the test shall be made available to schools not less than two weeks before the paper is taken for material procurement and relevant preparations.

### ALTERNATIVE TO PRACTICAL TEST

The Council may consider testing candidates' ability in practical work as prescribed in the syllabus in the event that materials for the actual practical test cannot be acquired. For this alternative test there will be one question to be answered in 2 hours for 100 marks.

### DETAILED SYLLABUS

S/NO.	TOPIC	CONTENT
1	Introduction to upholstery.	(a) Description of upholstery and upholstery articles; (b) Characteristics of upholstery workshops and articles; (c) Origin and styles of upholster.
2	Upholstery workshop safety.	(a) Safety: rules, regulations and precautions regarding clothing, habits, tools and materials, safety signs and posters; (b) Machine shop safety; (c) Safe use of machines, tools and devices; (d) Safe storage of tools, materials and equipment (e) Accident: meaning, causes and management techniques; (f) Fire: meaning, types, sources, equipment and methods of handling; (g) First aid: meaning, equipment and administration.

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3	Upholstery tools and machines.	<p>(a) Hand tools: types (e.g. hammers, needles, pair of scissors/shears, etc), identification, uses and maintenance;</p> <p>(b) Power tools: definition, types (staplers, buttoning machine, electrical cutter, glue gun, etc);</p> <p>(c) Machines: types (e.g. sewing machine, foam cutter, industrial machine), identification, parts, description, uses and specific maintenance</p>
4	Upholstery materials.	<p>(a) Description;</p> <p>(b) Classification (e.g. platform, padding/stuffing, covering, fasteners and fittings, etc);</p> <p>(c) Uses.</p>
5	Upholstery design and drawing.	<p>(a) Drawing principles;</p> <p>(b) Drawing instruments: types and uses;</p> <p>(c) Lines: types and uses;</p> <p>(d) Construction of plane figures and solids (e.g. triangles, ellipses, pyramids, shaped blocks);</p> <p>(e) Methods of presenting drawings (e.g. freehand sketching, orthographic projections, pictorial drawing, etc);</p> <p>(f) Design fundamentals (e.g. appearance, functionality, etc);</p> <p>(g) Design stages: problem identification, alternative solutions, selection of best alternative, production of:</p>
		working drawings, cutting list, estimates, workshop rod, template, etc.
6	Upholstery construction and repair.	<p>(a) Types of upholstery construction: half upholstery, full upholstery;</p> <p>(b) Parts of upholstery works: frame, padding, covering (Identification, selection of materials);</p> <p>(c) Upholstery construction (Principles, processes, joints, standard sizes, parts relationships, setting out, cutting out, sewing, fixing, finishing, decorating);</p> <p>(d) Repair of faults in upholstery work:</p> <ul style="list-style-type: none"> <li>- Types (e.g. stains, tears breakages, etc).</li> <li>- Sources</li> <li>- Identification</li> <li>- Estimation</li> <li>- Repair.</li> </ul>
7	Maintenance and repair of upholstery tools and machines.	<p>(a) Types of maintenance (routine, preventive, corrective, diagnostic, etc);</p> <p>(b) Maintenance activities (cleaning, oiling, greasing, changing of parts, etc);</p> <p>(c) Importance of maintenance and repairs;</p> <p>(d) Tools, machines, equipment and materials;</p> <p>(e) Housekeeping;</p> <p>(f) Maintenance records.</p>

8	Upholstery workshop management.	(a) Workshop environment: building, utilities, storage, facilities, etc. (b) Workshop layout: types, facilities conveniences, etc. (c) Workshop personnel and their functions. (d) Tools, equipment and materials' control: procurement, storage, issuing. (e) Workshop records (e.g. job card, tool card, stock cards, etc).
9	Introduction to entrepreneurship.	(a) Entrepreneurship: meaning and purposes; (b) Characteristics of entrepreneurs; (c) Business organization: types and their characteristics, forming a business organization; (d) Sources of capital; (e) Careers and job opportunities; (f) Feasibility studies: meaning, content

## TOOLS, EQUIPMENT AND MACHINES

### Hand Tools

- |    |                           |         |
|----|---------------------------|---------|
| 1. | Hammers                   | (30 No) |
| 2. | Pair of pincer            | (30 No) |
| 3. | Pair of scissors (225 mm) | (30 No) |
| 4. | Needles                   | (30 No) |
| 5. | Staplers                  | (30 No) |
| 6. | Ripping tools             | (30 No) |
| 7. | Webbing stretchers        | (30 No) |

### Equipment

- |                       |     |
|-----------------------|-----|
| Drawing sets          | (30 |
| Tee squares           | “   |
| Drawing boards        | “   |
| Set squares           | “   |
| Drawing curves        | “   |
| Mechanical sharpeners | “   |
| Drawing templates     | “   |

### Power Tools

- |    |                      |         |
|----|----------------------|---------|
| 1. | Jig saws.            | (5 No.) |
| 2. | Electric staplers.   | “       |
| 3. | Glue guns.           | “       |
| 4. | Electric cutters.    | “       |
| 5. | Power screw drivers. | “       |
| 6. | Pressing irons.      | “       |
| 7. | Drills.              | “       |
| 8. | Routers.             | “       |

### Machines

- |    |                        |        |
|----|------------------------|--------|
| 1. | Manual sewing machines | (5 No) |
| 2. | Drilling machine       | (2 No) |
| 3. | Band saw               | (2 No) |
| 4. | Circular saw           | (2 No) |
| 5. | Ironing machine        | (2 No) |
| 6. | Buttoning machine      | (5 No) |

7. Electric sewing machines (2 No)

### List Of Materials

1. 450 x380mm latex foam
2. 750 x 560 mm soft synthetic leather
3. 4000mm o3 cord
4. 1 small roll matching colour sewing thread
5. 470 x 400mm calico
6. 6mm upholstery staples
7. 450 x 380mm 18mm plywood

### Special Tools

1. Manual Sewing Machine
2. Portable Power Drill with appropriate bit
3. Staple Gun.

### **SUGGESTED READING LIST**

<b>S/NO.</b>	<b>AUTHOR</b>	<b>TITLE</b>	<b>PUBLISHER</b>
1	C. Howes F. A. M. U.	Practical upholstery	Evans Brother Ltd.
2	John A. Walton	Woodwork in theory and practice metric Edition	Australasian Publishing Company
3	E. A. Nnenji	Principles of Woodwork design and drawing	Aranke Woods Lagos
4.	H. C. Kazanas, Roy S. Klein and John R. Lindbeck.	Technology of Industrial materials	Chas A. Benneth Co. Inc.
5	Henry Sisk	Principles of Management	
6	Koontz and O'Donald	Principles of Management	
7	William F. Tierney	Modern upholstery methods.	Mcknight and Mcknight.
8	Argent Jeanne	Upholstgery, Step-by-step guide	Hamlyn, 1974
9	Groneman, Christ H.	General Woodworking	McGraw Hill
10	Tinelif e Books	The art of woodworking-building Cha	St. Mary Press
11	Tavntone books	Modern furniture projects. The best tine woodworking	Tavntone books

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