Coimisiún na Scrúduithe Stáit

State Examinations Commission

## JUNIOR CERTIFICATE 2008

## MARKING SCHEME

# MATERIALS TECHNOLOGY WOOD 

## HIGHER LEVEL

## SECTION A

Mark for best 16 answers. Disallow marks for any questions/parts of questions in excess of 16 as per instructions to Assistant Examiners


| $8 . \quad$ (i) | Name of seasoning method ... <br> Natural/Air Seasoning | 3 marks |
| :---: | :---: | :---: |
| (ii) | One disadvantage of this seasoning... <br> Slow, weather dependent, no control over MC boards prone to insect/fungi attack ... | 2 marks |
| 9. | Two conditions for dry rot ... <br> Warmth, Moisture, Oxygen, Food, No Ventilation | 3 marks <br> 2 marks |
| $10 . \quad$ (i) | Conversion method ... <br> Radial, Quarter, Rift Sawing | 3 marks |
| (ii) | Feature... <br> Silver Grain, Silver fleck, Quarter grain, Fiddleback | 2 marks |
| $11 . \quad$ (i) | Adhesive for veneers... <br> Casein, PVA, Formaldehydes <br> Scotch glue (animal or pearl glue) <br> Rubber-based (contact or impact adhesive) | $1 \times 3$ marks |
| (ii) | Reason... <br> Instant bond, strong, suitable for timber... | $1 \times 2$ marks |
| 12. | Two safety precautions using a chisel ... <br> Secure workpiece, sharp chisel, hands behind cutting edge... | $1 \times 3$ marks <br> $1 \times 2$ marks |
| 13. (i) | Direction of pulley.. <br> Clockwise | 3 marks |
| (ii) | Speed of pulley C ... <br> 90rpm | 2 marks |
| $14 . \quad$ (i) | Two reasons to apply finish... <br> Protect, enhance, toughen... | 3 marks 2 marks |
| $15 . \quad$ (i) | Bridle Joint... <br> Tenon <br> Cheeks | 3 marks 2 marks |



## Running total of allowed questions for this section to be recorded and shown as indicated at the marking conference.

## SECTION B

Mark for best 3 answers. Check all stationary and indicate running total and disallowed marks as indicated at the marking conference.


| QUESTION | ANSWER | MARKS |
| :---: | :---: | :---: |
| 2. <br> (i) | Explanation of steps in design process... <br> Sketches/Working Drawings - <br> Dimensioned drawings and sketches to include plan, elevation and end elevation and/or a pictorial view of the proposed artefact. Appropriate detailing and a materials list should be included. <br> Evaluation - <br> Review of project in relation to the given brief. Assessing of artefact with respect to function, appearance, proportion, shape, safety, problems encountered, modifications etc. | 5 marks <br> 5 marks |
| (ii) | Design solution for storage of household items ... <br> Basic unit/box without any design features (sketch only) <br> Fair attempt to accommodate items in an attractive, compact unit. (Must include notes) Good, well balanced, well sketched design, showing some innovation, must incorporate notes |  |
| (iii) | Two specific requirements ... <br> Any two relevant requirements to the design. Access, safety, appearance, function, cost, stability, size, shape, proportion, ease of use... | $2 \times 3$ marks |
| (iv) | Suitable material for the manufacture of the unit ... <br> Mark for any suitable material (Including manufactured boards) <br> Reasons ... <br> Reasons appropriate to selected material: Appearance, cost, durability, workability... | 3 marks $2 \times 3 \text { marks }$ |



| QUESTION | ANSWER | MARKS |
| :--- | :--- | :--- | :--- |
| (A). (i) | Development of letter holder... |  |




