#### NATIONAL BUSINESS AND TECHNICAL EXAMINATIONS BOARD NATIONAL CERTIFICATE EXAMINATION GENERAL WOOD WORK MAY/JUNE 2006

Section B – Essay – General Wood Work Attempt FOUR Questions only. All questions carry equal marks

1a. State THREE reasons for staining timber.

Three reasons for staining timber:

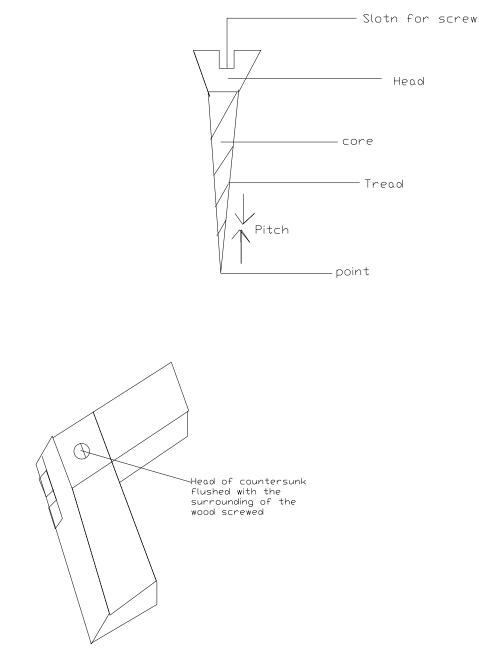
- (i) Timber is stained to imitate other timber used for the same project
- (ii) Staining of timber is done to give timber a different colour
- (iii) Staining of timber is done when uniform colour is desired on a job and also to conceal the colour of the timber.
- 1b. List SIX important points to be kept in mind when using stains.
- 1b Important points to be kept in mind include:
  - (i) Purpose of using the stains
  - (ii) Types of stain to be used
  - (iii) Colour of the tiomber to be stained
  - (iv) Method of appreciation
  - (v) Result expected from staining the wood
  - (vi) Appearance of the stained wood.
- 1c. What are the safety precautions to be observed when using chemical stains
- 1c. The safety precautions to be observed when using chemical stains are as follows:
  - (i) Adherence to manufacturer's instruction
  - (ii) Protective hand gloves should be used.
  - (iii) Protective air mute should be applied
  - (iv) Protective clothing is necessary.
- 2a. State FIVE conditions that would lead to the breakage of bend saw blade.
- 2a. The Five conditions that would lead to the breakage of a band saw are as follow:
  - (i) When the tension or the tightness of the blade is too much
  - (ii) When the blade is not well jointed by welding
  - (iii) When the blade is over used and as a result, it is dull or not sharp
  - (iv) When the thickness of the stuff being sawn is too much comparatively to the size of the blade.

# For other subjects, go to http://www.myschoolgist.com.ng/NABTEB

- 2b. List FIVE cutting operations which could be carried out on a band saw.
- 2b (i) Curve cutting
  - (ii) Concave cutting
  - (iii) Straight cutting
  - (iv) Template cutting
  - (v) For conversion of timber.
- 3a What is adhesive?
- 3a. Adhesive is a substance available in powder or liquid form used for bonding two surfaces together. It could be wood to wood, iron to wood, leather to wood etc.
- 3b. Differentiate between the following principles of glue;
  - (i) Cohesion
  - (ii) Adhesion
  - (i) Cohesion refers to the entity or whole chemical of the glue to cure why:
  - (ii) Adhesion is the ability of the specific glue to cure. These two terms are relative.
- 3c. State FIVE properties required in a wood glue.
- 3c. Five properties required in a wood glue:
  - (i) water resistance
  - (ii) resistance to bacteria
  - (iii) stain free
  - (iv) easy appreciability
  - (v) Ability to withstand degree of heat.
- 4a. Name THREE types of screws used in the wood workshop
- 4a (i) Countersunk screw
  - (ii) Round head screw
  - (iii) raised head screw
- 4b. Sketch ONE of the screws in a above and label its parts.

2

#### 4b. <u>Countersunk Screw (labeled sketch)</u>



- 5a. Sketch neatly the following woodwork joints:
  - (i) bare faced mortise and tenon joint.
  - (ii) Stub mortise and tenon joint
  - (iii) Mitre mortise and tenon joint.

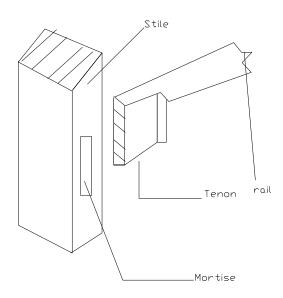
For other subjects, go to http://www.myschoolgist.com.ng/NABTEB

3

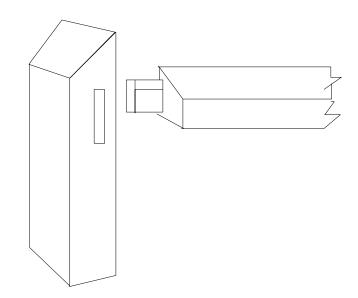
5(a)i.

ii.

Bare faced mortise and tenon joint.

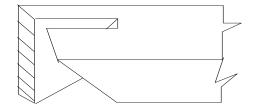


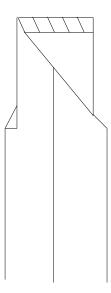
Stub montise and tenon.



4

iii.Mitred mortise and tenon.





5

- 5b. State where each of the joints sketched in 5(a) above is used in the construction of framework.
- 5b (i) Bare faced mortise and tenon joint is used in stool and cupboard construction.
  - (ii) Stub mortise and tenon joint is used in the construction of door frames i.e. flush door.
  - (iii) Mitre mortise and tenon joint is employed in solid or strong frame construction.

For other subjects, go to http://www.myschoolgist.com.ng/NABTEB