COMPETITIVE ENTRANCE EXAMINATION INTO HTTTC BAMBILI	
CYCLE: 1 <sup>ST</sup> CYCLE  LEVEL: 1 <sup>ST</sup> YEAR  OPTION: WOODWORK	Session: 2013
DURATION: 3hrs	

- In your answer booklet, write only the letter of the answer chosen against the question number.
- This question paper must be submitted together with the answer booklet.
- Each question carries one (1) mark
- 1. Suggest one of the reasons for which a sanding bed must be installed on the direction of arrow stamped on is back.
  - a) To indicate the direction of rotation of the standing equipment
  - b) Because it indicates the sharpness direction of the course of his grift
  - c) To indicate the direction of the sanding action
  - d) To indicate the direction of maintenance if a ruptured sanding belt
- 2. Determine the function of the primer in a complete paint treatment.
  - a) It provides a strong bond for the following coats to prevent it from soaking into the wood
  - b) It ensures glossary appearance especially if applied with a brush
  - c) The primer conforms with all types of material
  - d) It ensures deep penetration of the final coat of polish
- 3. Identify a factor that influence the choice of wood finishing
  - a) Degree of gloss required for the given article
  - b) Degree of manufacture of the finish after application
  - c) The effect of the finish to sound transmission
  - d) Poor finishing
- 4. Write the purpose for which you will recommend additives to the finishing products in the workshop:
  - a) They are used to plasticize the wood
  - b) To hide dents on poorly surfaced wood

- c) To thin or give color to finishes
- d) To retard the speed of wood stains and pigment
- 5. Propose the cause and practical solution to maintain a spay equipment when fluid stops flowing from the pressure gun:
  - a) Clogged air vent, clean gun and tightened connection for painting
  - b) Lack of air pressure in cup, clean air holes and inspect gaskets for replacement
  - c) Poor seating of the seedless, need to be removed for cleaning or replacement for vanishing
  - d) Leaking gun connection which simply need to be tightened
- 6. Simulated distressing is an art in the reservation process that describes the decision to:
  - a) Highlight areas of furniture with strong heat to change its color contrast\
  - b) Completely replace a damaged part of a cabinet
  - c) Render old furniture or fabric newer than its original state
  - d) Render new furniture or fabric warm appearance
- 7. Express the meaning of the term SOLUTE
  - a) Substance that can dissolve another substance
  - b) A blend of substance
  - c) A solution in which no other substance can be dissolved
  - d) A substance dissolved in a substance to form a solution
- 8. Identify a factor to bear in mind in the selection of wood dye
  - a) Chemical reactivity
  - b) Non grain
  - c) Adhesion of the substance
  - d) Film forming quality

- 9. Recommend a good method of applying wood finish on small elements of furniture units:
  - a) Stripping
  - b) Dipping
  - c) Deeping
  - d) Rubbing
- 10.State the characteristics considered to determine the sale of a portable belt sanding
  - a) The capacity of the electric motor
  - b) The width of the belt
  - c) The drive pulley
  - d) The manufacturer recommendation
- 11. Identify the part of a tree that distinguishes hardwood from the softwood species.
  - a) Not
  - b) Knot
  - c) Nod
  - d) Naught
- 12. Choose the formula for calculating periphery speed of a given woodworking machine:
  - a)  $\frac{\pi D}{1000} x Rev/min$
  - b)  $\pi DxRev/minx100$
  - c)  $\pi x Rev/min x 1000$
  - d)  $\frac{\pi rx(\frac{Rev}{\min})}{1000}x100$
- 13. Identify the part of a saw beside indicated letter "a" on figure 1.
  - a) The cutting distant

- b) The tough gauged
- c) The pitch
- d) The Gullet
- 14. Express the meaning of "Thermoplastic material"
  - a) Materials or substance that becomes soft and pliable when heated
  - b) Material that will not soften in spite of the heat specified
  - c) Resin material that can be cured after setting
  - d) Volatile material used to regulate the consistency of other material
- 15. Specify the role of wood calls known as Parenchymes rays, to a beaking tree
  - a) It transmits sap from the roots to the rest of the tree
  - b) It passes the food stuff of the tree called sap from leaves to the tree trunk
  - c) It enhances the growth of annual growth sings
  - d) It is formed of partly substance which store reserve food for the formation of parts of the tree
- 16. Identify the part of a rim lock that keeps the door shutter to a closed position
  - a) Lock belt
  - b) Latch
  - c) Lower
  - d) Cylinder
- 17. A feather is particularly adopted in classical wood joints construction. Establish its role to the joint
  - a) To ease squaring of complicated firming joint
  - b) To facilitate the assembly of mitre dowel joints
  - c) To reinforce joints otherwise called a tongue
  - d) A joint consolidation assistant otherwise known as dowels

- 18.A feather is particularly adopted in classical wood joints construction. Establish its role to the joint
  - a) To ease squaring of complicated framing joint
  - b) To facilitate the assembly of mitre dowel joints
  - c) To reinforce joints otherwise called a tongue
  - d) A joint consolidation assistant otherwise known as dowels
- 19.Dado finishing in living rooms, otherwise known as wainscot is recently gaining popularity. Besides the atheistic presentation establish its technical value.
  - a) To protect the lower part of the wall in the room
  - b) To support furniture and picture frames
  - c) To act as a rest for flower ports
  - d) To minimize the cost of plastering
- 20. Hand saws like machine tools have a principle to determine the size. Express how to determine the size of a particular handsaw.
  - a) By the length of the saw blade measured in millimeters
  - b) By its weight, size and angle of teeth measure in degrees per 25mm
  - c) By the number of points per 25mm along the length of the blade
  - d) It is easier to determine its size from appearance
- 21. The success of an enterprise depends on its organizational structure, identify two services of the commercial department
  - a) Production and purchase
  - b) Finishing and sales
  - c) Marketing and advertisement
  - d) Control of mass production and quality
- 22. Express the meaning of "Breakeven points" as a business strategy
  - a) The point in business where profit cover cost

- b) A period of breakdown in business, popularly known as bad market
- c) A point where cost owner shadow gain
- d) A time when the enterprise require more equipment as it develops
- 23. Predict the type of energy source referred to as Oleo Pneumatic
  - a) Power supply in the workshop by standby generator
  - b) Power supply whose main source of energy is oil
  - c) Power supply by rechargeable batteries
  - d) Muscular energy
- 24. Qualify the long lasting ability of wood without sustaining damage or wear
  - a) Durability
  - b) Resistance
  - c) Hardness
  - d) Toughness
- 25. State the role of the riving knife and indicate the machine on which its applies:
  - a) To expand the kerfs of the cutting tool on the dimension a saw bench
  - b) To ease trimming of veneer on the horizontal band saw mill
  - c) To support stock during massive cross cutting on a radial arm saw
  - d) It facilitates ascribing on the spindle moulder in the absence of tenoning machine.