CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD

Technical and Vocational Education Examination

CONSTRUCTION PROCESSES 1

7495

JUNE 2020 **ADVANCED LEVEL**

Specialty	**WOOD CABINET MAKING - WCM (MEB)**
Centre No.	
Centre Name	
Candidate No.	
Candidate Name	

Mobile phones are **NOT** allowed in the examination room

7495 CONSTRUCTION PROCESSES 1: MULTIPLE CHOICE QUESTION PAPER

One and a half hours

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you start answering the questions in this paper. Make sure you have a soft HB pencil and an eraser for this examination.

1. USE A SOFT HB PENCIL THROUGHOUT THE EXAMINATION.
2. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Before the examination begins:

3. Check that this question booklet is headed **Advanced Level – 7495 CONSTRUCTION PROCESSES 1**
4. Insert the information required in the spaces above.
5. Insert the information required in the spaces provided on the answer sheet using your HB pencil: **Candidate Name, Exam Session, Subject Code, Centre Number and Candidate Number.** Take care that you do not crease or fold the answer sheet or make any marks on it other than those asked for in these instructions.
6. **Answer ALL questions**
7. Each question has FOUR suggested answers: **A, B, C** and **D**. Decide on which answer is correct. Find the number of the question on the Answer Sheet and draw a horizontal line across the letter to join the square brackets for the answer you have chosen.

   For example, if **C** is your correct answer, mark **C** as shown below:

   [A] [B] [~~C~~] [D]

8. Mark only one answer for each question. If you mark more than one answer, you will score a zero for that question. If you change your mind about an answer, erase the first mark carefully, then mark your new answer.
9. Avoid spending too much time on any one question. If you find a question difficult, move on to the next question. You can come back to this question later.
10. Do all rough work in this booklet, using, where necessary, the blank spaces in the question booklet.
11. Texts, notes and pre-prepared materials of any kind are also **NOT** allowed in the examination room.
12. **At the end of the examination, the invigilator shall collect the answer sheet first and then the question booklet after. DO NOT ATTEMPT TO LEAVE THE EXAMINATION HALL WITH IT.**

Turn Over

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1. Determine the number of supports required to ensure stability and proper support of work pieces during machining.
   A. Four supports on the table
   B. Five supports on the table
   C. Three supports on the table
   D. Six supports on the table

2. Complete the statement below with the correct answer: when a piece is fully supported during a machining process, movement is prevented in at least;
   A. Four points
   B. Five points
   C. Six points
   D. Seven points

3. Select the type of lubricants used in woodwork machines.
   A. Liquid, paste and solid
   B. Wax, liquid and solid
   C. Oil, liquid and solid
   D. Graphite, wax and solid

4. Select carefully the cheapest form of maintenance.
   A. Preventive maintenance
   B. Predictive maintenance
   C. Reactive maintenance
   D. Breakdown maintenances

5. Which of the documents below is not used when servicing machines?
   A. Machine register
   B. Maintenance timetable
   C. Lubrication and replacement schedule
   D. Servicing schedule time table

6. Precise the source of class C fire.
   A. Ordinary combustible substance
   B. Flammable or combustible liquids or gases
   C. Energized electrical equipment
   D. Combustible liquids

7. Identify the appropriate bit required to bore countersink holes from the bits shown in figure1
   A. W
   B. X
   C. Y
   D. Z

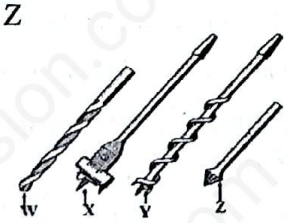


Figure 1

8. Outline the element that guides most the designer during furniture design.
   A. Form
   B. Function
   C. Beauty
   D. Aesthetic

9. Underline the factor that guides the cabinet-maker to design furniture that fit children or adults.
   A. Standard dimensions
   B. Human factors
   C. Function of furniture
   D. Where the furniture will be use

10. Mention the most common identification indicator of a dull machine cutter.
    A. Burn marks
    B. Plane makes
    C. Rough surfaces
    D. Nips

11. Match the appropriate term to scoring and fracturing processes of cutting materials.
    A. Wood
    B. Veneer
    C. Plastic
    D. Glass

12. State the role of a fuse in a portable power drill.
    A. Protects it from excessive current flow
    B. Breaks to protect it from excessive current flow
    C. Reduces the current to the capacity of the tool
    D. Increases the current in case of low voltage

13. Pick a term that describes a process of bending the tip of nails when they project through the assembled pieces.
    A. Clenching
    B. Denting
    C. Punching
    D. Ranging

14. Give the significance of 3x16 as found on the packet of screws.
    A. Screw length and diameter
    B. Screw gauge and length
    C. Screw number and treads
    D. Screw shank and treads

15. Identify the fixing device in figure 2.
    A. Cup screw
    B. Hook screw
    C. Cup hook screw
    D. Shoulder hook screw


Figure 2

16. Give the correct name to the hardware fixed at the bottom of cabinet legs to prevent them from wobbling on none levels floors
    A. Glides
    B. Levelers
    C. Tracks
    D. Brackets

17. Underline the probable cause of most accidents in manufacturing companies.
    A. Carelessness and stress
    B. Wrong maintenance
    C. Laziness
    D. Untrained workers

18. Select the most appropriate protective equipment that limits hearing hazards in a heavy duty wood machine shop.
    A. Mask
    B. Goggles
    C. Respirator
    D. Muffs

19. Suggest the statement that best explains double insulation in portable power tools.
    A. The cables conducting electricity have two insulators
    B. The machine must be used with the main switch and the machine switch
    C. The cables are not in contact with any metallic body part.
    D. The switch of the tools is always positioned at the handle.

20. Give the name to the third prong in a power tool plug with three prongs, if the first two are the live and the neutral wires.
    A. Earth cable
    B. Isolation cable
    C. Insulation cable
    D. Plunge cable

21. Determine a type of motion not produced by the cutting tools of woodwork machines.
    A. Rotary motion
    B. Reciprocating motion
    C. Curvilinear motion
    D. Rectilinear motion

22. Trace a device that immediately covers the moving parts of a machine after an operation.
    A. Point of operation guards
    B. Enclosure guards
    C. Interlocking guards
    D. Automatic guards

23. Precise the category of guard to which the retractable guard that covers the saw blade on the portable circular saw belong.
    E. Point of operation guards
    F. Enclosure guards
    G. Interlocking guards
    H. Automatic guards

24. Indicate the easiest means of identifying and selecting tools for a given project.
    A. By determining the duration of the project
    B. By determining the construction processes of the project
    C. By determining where the project will be realized
    D. By determining the quality and function of the project

25. State the function of the tool represented in Figure 3.
    A. Used for measuring concave diameters
    B. Used for measuring convex diameters
    C. Used for transferring dimensions
    D. Used for drawing large arcs

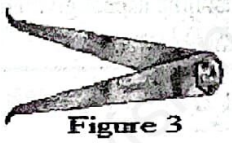


Figure 3

26. Give the name to the piece drawn in the squares shown in figure 4 when it is marked and cut out of 5mm plywood.
    A. Rod
    B. Stencil
    C. Template
    D. Patten

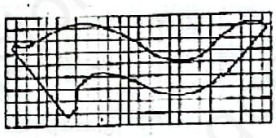


Figure 4

27. Detect what should be done to enlarge the piece in Figure 4 above and cut out for a bigger article of the same design.
    A. Increase the number of grids
    B. Increase the sizes of the grids
    C. Reduce the number of grids
    D. Stretch the design

28. Precise when the surface planer is said to be correctly set.
    A. When the In-feed table is leveled with the cutter block and cutting circle
    B. When the out-feed table is leveled with the cutter block
    C. When the out-feed table and the cutting circle are leveled but in-feed lower
    D. When the In-feed and the cutting circle are leveled and out-feed lower.

29. Identify from visual inspection, the saw teeth presented in Figure 5.
    A. Crosscut teeth
    B. Rip teeth
    C. Carbide teeth
    D. Combination teeth

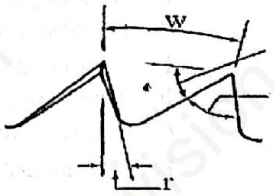


Figure 5

30. Give the most appropriate name to angle **r** in Figure 5 above.
    A. Sharpening angle
    B. Hook angle
    C. Clearance angle
    D. Cutting angle

31. Choose the name that best describes the distance W in Figure 5 above.
    A. Size of the gullet
    B. Pitch
    C. Teeth clearance
    D. Saw gap

32. Cite the correct machine aspect given by the formula $\frac{\pi \times \text{Diameter}}{\text{number of teeth}}$
    A. Pitch
    B. Teeth clearance
    C. Peripheral speed
    D. Feeding speed

33. The defect in Figure 6 below was seen at the end of the board after surfacing. State its cause.
    A. Cutters not uniformly projected
    B. In feed table too low
    C. Out feed table lower than the cutting circle
    D. Feeding speed too low

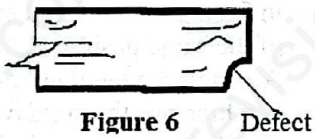


Figure 6

34. Give the term that designates the defect in figure 6 above.
    A. Curve
    B. Snip
    C. Torn grain
    D. Drop effect

35. Select an expression that describes batteries operated portable power tools.
    A. Charging tools
    B. Cordless tools
    C. Pneumatic tools
    D. Ballistic tools

36. Select a method NOT adopted for fitting of drawers to meet with the carcasses.
    A. Flush drawer
    B. Inset drawer
    C. Overlay drawer
    D. False front drawer

37. Choose the appropriate device required to shape the table leg in Figure 7 on the spindle moulder.
    A. Free hand
    B. Fixture
    C. Machine template
    D. Rod



Figure 7

38. Complete the statement with the correct answer. During implantation of machines, their positioning should be such that;
    A. there is little or no backward movement
    B. there is quick access to the frequently use machine
    C. they are in groups of operation
    D. they are in a straight line

39. Outline a document established by the method office required for the realization of a cabinet.
    A. Cost estimate
    B. Fabrication analysis
    C. Cutting list
    D. Bill of material

40. Pick carefully the main function of the method office in an enterprise.
    A. Decide on the form of objects
    B. Decide on the construction techniques
    C. Determine the time needed for each project
    D. Remunerate workers in the enterprise

41. Mention the document that provides details of a side-board to be constructed.
    A. Sketches
    B. Isometric projection
    C. Pictorial projection
    D. Working drawing

42. Give the correct name to the hinge shown in Figure 7
    A. Lift-off butt hinge
    B. Rising butt hinge
    C. Concealed hinge
    D. Loose butt hinge

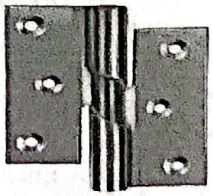


Figure 7

43. Precise the technical name to the part of a mortise lock in Figure 8.
    A. Canon
    B. Profiled cylinder
    C. Rim cylinder
    D. Key path

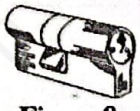
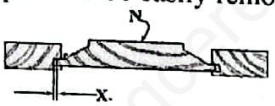


Figure 8

44. State the main reason of living the distance X during assembly (Figure 9).
    A. To permit the panel to move in the groove
    B. To allow air trapped in the groove during assembling to circulate
    C. To allow excess glue to circulate in the groove
    D. To permit the panel to be easily remove

Figure 9



45. Complete the statement with the appropriate term from below. Production of templates for a unique design in which you are specialized is called?
    A. Normalization
    B. Standardization
    C. Specialization
    D. Simplification

46. Indicate the maximum distance recommended between the shutter and the frame when hinging.
    A. 5 mm
    B. 1 mm
    C. 2 mm
    D. 15 mm

47. Choose a radial arm saw adjustment performed by the elevation crank.
    A. Raise and lower the blade
    B. Position the blade for miter cuts
    C. Position the blade for ripping
    D. Rotate the arm

48. Select a hardware that keeps the cabinet's shutter in a closed position.
    A. Handle
    B. Pull
    C. Knob
    D. Catch

49. Finish the statement below using the appropriate answer; hand saw are classified by;
    A. the sizes of the blades
    B. number of teeth within a given distance
    C. shape of the handle
    D. the material from which the blade is made

50. Outline an advantage of a well-organized work shop.
    A. It increases cost of production
    B. Reduces production time
    C. Increase quality of products
    D. Increase life span of machines

NOW GO BACK AND CHECK YOUR WORK