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CARPENTRY AND JOINERY

PAPER 2 4011/2

Monday **12 MAY 2025** 10:15 A.M.–11:45 A.M.

Additional materials:

Answer booklet

Pen

Pencil

MINISTRY OF EDUCATION NATIONAL EXAMINATIONS

BAHAMAS GENERAL CERTIFICATE OF SECONDARY EDUCATION

INSTRUCTIONS AND INFORMATION FOR CANDIDATES

Do not open this booklet until you are told to do so.

Write your school number, candidate number, surname and initials on your answer booklet.

Read ALL instructions carefully before attempting the questions.

There are **SEVEN** questions: you must answer **FIVE**.

Questions must be answered in the answer booklet.

Diagrams and sketches should be used to illustrate your answers, if stated in the question.

INFORMATION FOR CANDIDATES:

The mark for each question is shown in brackets [] at the end of each question or part question.



This question paper consists of 10 printed pages and 2 blank pages.

- (c) Give **TWO** power sources used for operating stationary or portable power tools. [2]
- (d) **Figure 1** below shows a portable power tool commonly used in the Carpentry and Joinery workshop and on the construction site.



Figure 1

- (i) What is the correct name of this power tool? [1]
- (ii) How is the size of this tool determined? [2]
- (iii) List **THREE** specific safety rules that must be observed when using this portable power tool. [3]
- (iv) Name the **THREE** items of personal protective equipment that are used when operating this power tool in the Carpentry and Joinery workshop and on the building construction site. Briefly explain its function. [6]

TOTAL MARKS [20]

4. **Figure 2** shows a disassembled smoothing plane.

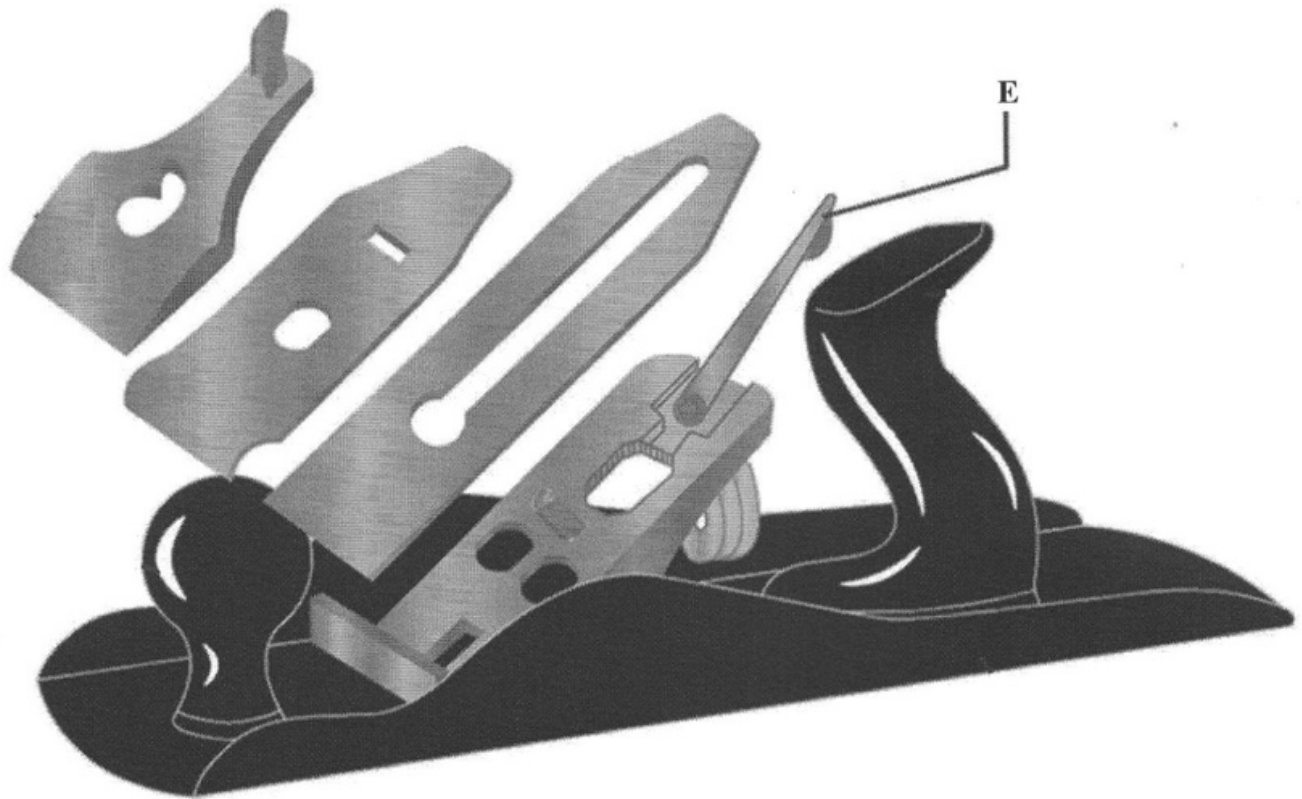


Figure 2

- (a) Briefly describe what the smoothing plane is used for. [2]
- (b) What is the function of the part labelled **E**? [1]
- (c) Briefly explain why it is important to lay this tool on its side when not in use. [2]
- (d) Name **TWO** tools that can be used in reconditioning the cutting edge of this tool. [2]
- (e) Name **TWO** other types of hand planes used in the Carpentry and Joinery workshops, and briefly explain their use. [4]
- (f) List the **SIX** steps to recondition a dull wood work smoothing plane cutting iron that may show signs of *dullness* of the cutting edge. [6]
- (g) With the aid of a neat sketch, show how the end grain of a piece of lumber should be planed to avoid splitting. [3]

TOTAL MARKS [20]

5. **Figure 3** below shows a diagram of a Hip Valley roof framing structure.

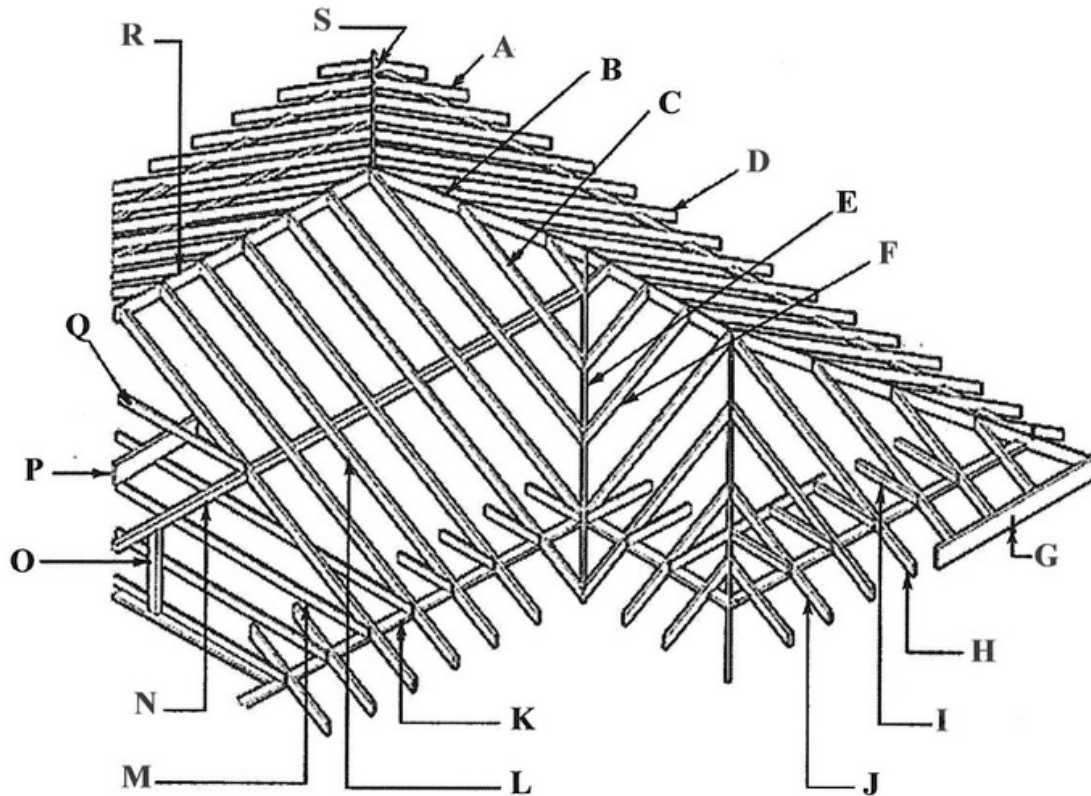


Figure 3

- (a) Briefly describe the function of the roof framing structure. [1]
- (b) Identify any **FIVE** parts labelled **A** through **S**, using the parts list provided. [5]

Table 1

PARTS LIST	
HIP CREEPER RAFTER	HIP RAFTER
FASCIA	CREEPER RAFTER
JACK RAFTER	BROKEN HIP RAFTER
JACK CEILING JOIST	CRIPPLE CREEPER RAFTER
CREEPER RAFTER	JACK RAFTER (CROWN END)
TOP PLATE	VALLEY RAFTER
COMMON RAFTER	VALLEY CREEPER RAFTER
CEILING JOIST	ROOF STRUT
UNDER-PURLIN	HANGING BEAM
RIDGE BOARD	COLLAR TIE

- (c) **Figure 4** shows a common rafter with **FIVE** different cuts. Identify the different cuts indicated by the letters in the **Table 2**. [5]

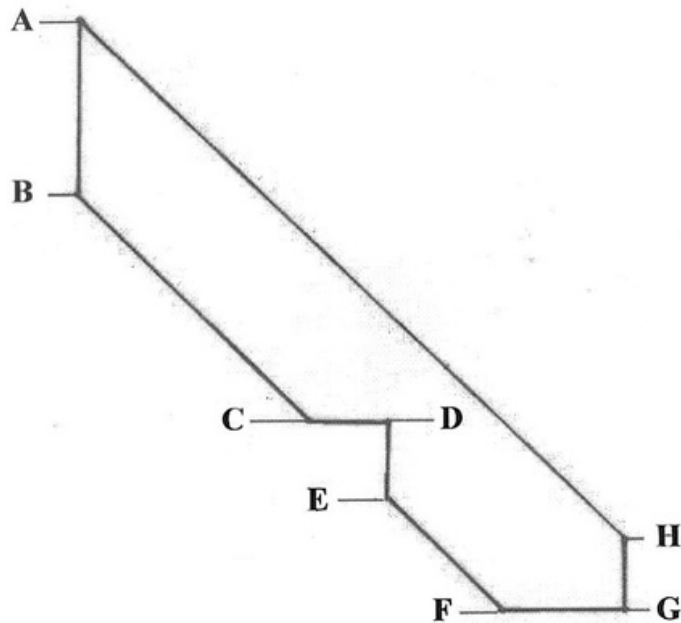


Figure 4

Table 2

TYPES OF CUTS
A – B
C – D
D – E
F – G
H – G

- (d) What is the correct name of cuts **C – D – E**? [1]
- (e) Name **TWO** types of fasteners used to secure the common rafter to the wall plate of a building. [2]
- (f) What is the name of the metal fastener that joins a building's wall plate to its reinforced concrete perimeter beam? Briefly explain why it is used. [2]



- (g) Using the formula in **Table 3**, Calculate the number of ceiling joists needed for the project shown below it. [2]

Table 3

$$N = 1 + \frac{(L-w)}{s} w$$

Where:

<i>N</i>	The number of ceiling joists needed.	
<i>L</i>	The length of ceiling/wall.	(Ninety-six inches or Eight feet) 96" or 8'-0"
<i>w</i>	The actual thickness of ceiling joist.	(Two inches) 2"
<i>s</i>	The on-centre spacing of the ceiling joists.	(Sixteen inches) 16"

- (h) A roof has a dimension of 75'-0" wide × 150'-0" long. Calculate the amount of plywood that is required to cover the roof, assuming that each plywood sheet covers 32 square feet of roof area. [2]

TOTAL MARKS [20]

6. (a) All timber used for construction purposes must be seasoned. Explain what is meant by the term 'seasoning timber'. [3]
- (b) Name the **THREE** main methods of seasoning timber. [3]
- (c) Briefly describe the combined seasoning process. [2]
- (d) Choose **ONE** of the methods of seasoning and give **ONE** advantage and **ONE** disadvantage of that method. [2]
- (e) The diagram in **Figure 5** below shows a commonly used method of seasoning timber. [2]

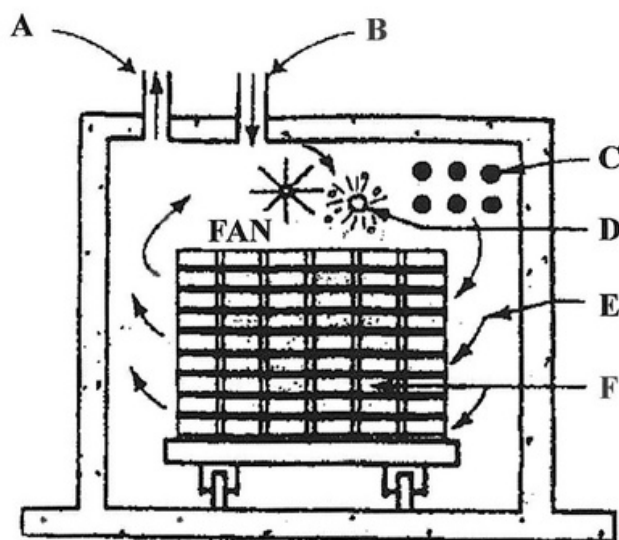


Figure 5

- Identify any **FOUR** parts labelled A through F. [4]
- (f) During seasoning some defects may occur in the timber. Name **TWO** types of timber defects that may usually occur. [2]
- (g) Moisture content (MC) in lumber is given as a percentage of the dry weight of the timber. Using the formula in **Table 4**, calculate the moisture content of a sample piece of timber which weighs 30 grams before drying. After oven drying the same piece of timber weighs 25 grams. [2]

Table 4

Formula for Calculating Moisture Content	
$MC = \frac{\text{Initial Weight} - \text{Dry Weight}}{\text{Dry Weight}} \times 100\%$	

- (h) Briefly explain the term Equilibrium Moisture Content when referring to timber (EMC). [2]

TOTAL MARKS [20]

7. (a) Provide **FOUR** reasons why surface preparation is necessary prior to applying furniture finishes. [4]
- (b) List **FIVE** types of finishes that could be applied to indoor furniture. [5]
- (c) Give **FIVE** steps that would be required to prepare a wooden surface to receive a natural finish. [5]
- (d) What **TWO** safety measures must be followed before applying finish material to any wooden furniture? [2]
- (e) List **FOUR** methods that can be used to apply finishing material to the surfaces of a wooden project. [4]

TOTAL MARKS [20]



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Tick questions answered ✓		Marks
1.		
2.		
3.		
4.		
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6.		
7.		
Total Marks		

