

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II **SESSION 2023/2024**

COURSE NAME

FURNITURE FINISHING AND

PACKAGING

COURSE CODE

BPP 31003

PROGRAMME CODE :

BPP

EXAMINATION DATE : JULY 2024

DURATION

3 HOURS

INSTRUCTIONS

1. ANSWER ALL QUESTIONS

2. THIS FINAL **EXAMINATION** IS

CONDUCTED VIA

☐ Open book

3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION

CONDUCTED VIA CLOSED BOOK

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES



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Q1 List THREE (3) sanding machines used in the wood furniture (a) manufacturing industry.

(3 marks)

(b) Explain TWO (2) purposes of selection correct sandpaper grit sizes for wooden furniture with examples.

(6 marks)

- List THREE (3) procedures in preparing a rubberwood surface for lacquering. (c) (3 marks)
- (d) Discuss TWO (2) types of film finishes used in woodworking.
- Discuss THREE (3) advantages of using epoxy as a finishing material in (e) furniture manufacturing, particularly for items requiring a durable surface.

(6 marks)

(4 marks)

- Q2Recently, EcoFurniture Sdn. Bhd has started using acacia wood for their dining tables due to its durability and attractive grain. However, they are facing challenges with the finishing process. Some issues include poor coverage and inconsistent application techniques, leading to subpar final products. They need to ensure high-quality finishes to meet international standards and maintain their reputation in the market.
 - (a) Identify TWO (2) commonly used finishes for wooden furniture.

(2 marks)

(b) Outline THREE (3) finishing procedures for an acacia wood dining table, specifying the type of finish and application techniques.

(12 marks)

Prepare **THREE** (3) steps required before applying finishes to furniture. (c)

(9 marks)

Determine THREE (3) issues of poor coverage during the finishing process at (d) EcoFurniture Sdn. Bhd.

(6 marks)



Q3 Elegant Woods Ltd., known for its high-quality chair. Recently, the company has encountered several complaints from customers about uneven finish coverage on their wooden furniture products. Customers have reported various issues, such as visible streaks, inconsistent color patches, and areas that appear to be missing a finish entirely. These issues not only compromise the aesthetic appeal of the chair but also affect its durability and overall quality. As a result, the company is keen to identify the underlying causes of these problems and implement effective solutions to ensure consistent and high-quality finishes on all their products.

Based on above scenario,

- (a) Determine **THREE** (3) problems of uneven finish coverage on the chair. (9 marks)
- (b) Propose **THREE** (3) approaches to prevent the issue as stated in **Q3(a)**.

(12 marks)

- Q4 ArtisanWood Exports is exploring different materials for packaging of their fragile carved teak dining tables for export. They need to choose between cardboard, plastic, and plywood to ensure the best protection during international shipping. Each material has its own strengths and wellness attributes that could impact the durability and safety of the packaging.
 - (a) Explain **THREE** (3) common issues faced during the packaging process. (6 marks)
 - (b) Describe **THREE** (3) functions of different types of packaging involved in shipping furniture.

 (6 marks)
 - (c) Illustrate with elaboration a comprehensive packaging strategy to ensure safe delivery of the products.

 (16 marks)

- END OF QUESTIONS -

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