



UNIVERSITY OF EDUCATION, WINNEBA
INSTITUTE FOR TEACHER EDUCATION AND CONTINUING
PROFESSIONAL DEVELOPMENT (ITECPD)
END OF SECOND SEMESTER EXAMINATIONS, OCTOBER, 2024



COURSE CODE: JBH 241

COURSE TITLE: DESIGN AND REALISATION II

TIME ALLOWED: 2 HRS

STUDENT'S INDEX NUMBER:



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- This paper is made up of ONE SECTION.
- The Section is made up of five essay type questions.
- Answer any THREE questions in your answer booklet.
- Each question carries equal marks. You are expected to start each question on a new page.
- You are expected to hand over your answer booklet to the invigilator before you leave the examination hall.

Instruction: Answer any three (3) questions in the answer booklet provided.

Q1

- A. The head of a basic school has asked you as a career technology student to design a unit that can be used to store science equipment at his school. Using two-point perspective draw the final work. (12 marks)
- B. Explain any two (2) reasons for drawing a final solution in an exploded view. (4 marks)

C. Discuss the importance of preparing a cutting list.

(4 marks)

Q2

An office girl who cleans the headmaster's office has to re-arrange the files on the table. She spends a lot of time on it affecting her academic work.

A. Sketch the final idea in an oblique drawing.

(8 marks)

B. Use thick and thin lines techniques to make it stands clearly.

(4 marks)

C. Present detail drawing of any two parts.

(8 marks)

Q3

A. Sketch to show difference between isometric and oblique drawing. (6 marks)

B. Draw the cabinet in figure 1 below, in 2-point perspective and use thin and thick lines technique to render it. (14 marks)

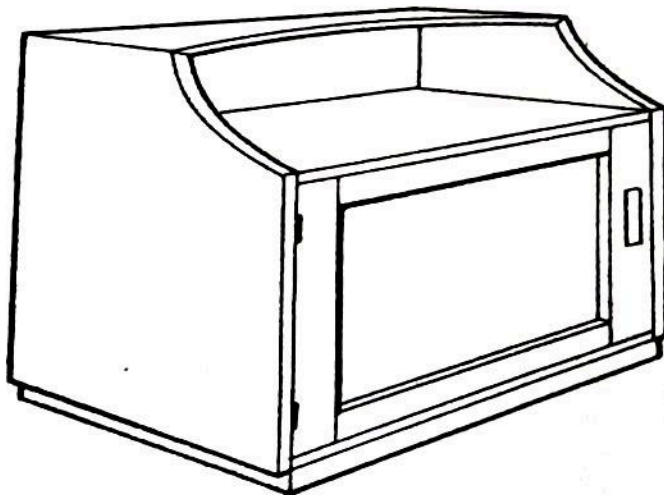


Figure 1: Wooden cabinet

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Q4

- A. State any **two (2)** reasons for using exploded views in design and realisation **(4 marks)**
- B. Identify the difference between detailed drawing and exploded view. **(4 marks)**
- C. Write any **two (2)** merits of a model in realising an artifact. **(4 marks)**
- D. Make a neat sketch of spirit level and use tonal shading to render it. **(4 marks)**
- E. (e) Briefly explain the following:
- (i) Mock up **(2 marks)**
 - (ii) Model **(2 marks)**

Q5

Your college has task you to produce an artifact that can be used to collect a refuse.

- A. Draw the artifact in an isometric drawing. **(8 marks)**
- B. Draw the artifact in a third angle projection. **(8 marks)**
- C. State **two (2)** materials you will use to realise the artifact and give two reasons for your choice of the materials. **(4 marks)**



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