For Performance Measurement

ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Advanced Level

BUILDING TECHNOLOGY & DESIGN 6003/3

PAPER 3 Practical Test

SPECIMEN PAPER

Additional materials: **5 hours**
Answer paper,
A3 drawing paper,
Scientific calculator,
ICT software.

INSTRUCTIONS TO CANDIDATES

Answer the question on the answer paper provided.

This question paper consists of 3 printed pages and 1 blank page.

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1 **Figure 1** below is a plan of a church to be built. Study the plan and use it to answer the questions that follow.

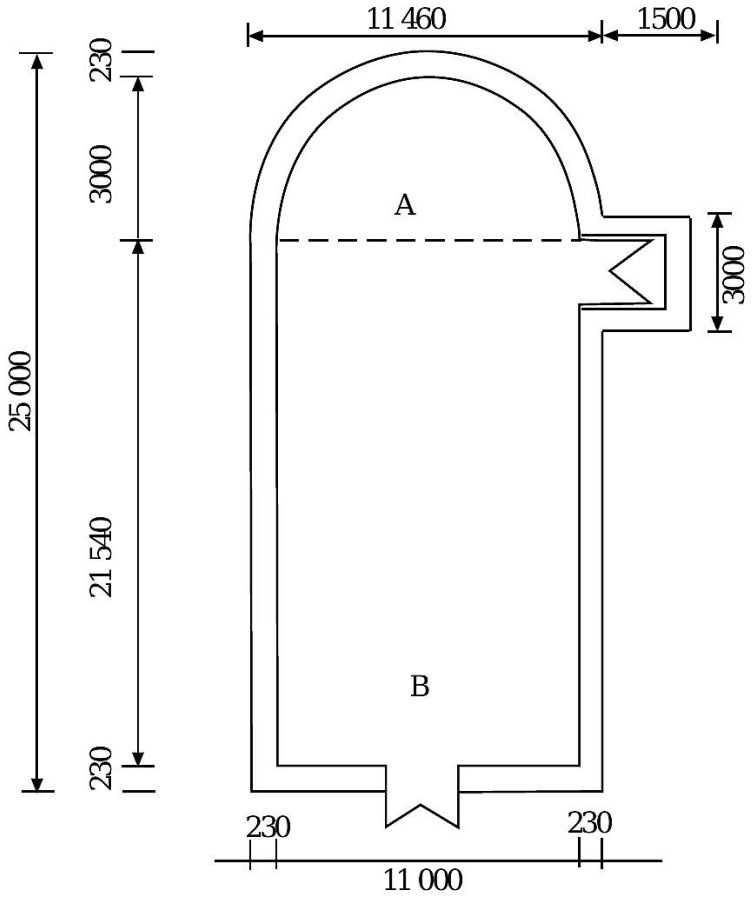


Fig. 1

(a) **(i)** Prepare a sequential outline of the processes involved in constructing the church. [10]

(ii) Design a gnatt chart works programme of the processes listed in **(i)**. [10]

(iii) Copy the drawing on an A3 paper and show possible site layout of the hutment at preliminary stage of construction. [18]

(iv) Compile a list of tools needed for setting out the building. [5]

(v) List and describe the methods to be used in setting out **Part A** and **Part B** of the building. [8]

(b) **(i)** Redraw the plan of the church in **Figure 1** and show positions of the following:

- datum peg,
- side and corner profiles,
- ranging lines,
- foundation boundaries.

[20]

(ii) Show on the drawing, how the accuracy of setting out is checked. [10]

(c) **(i)** Illustrate how ranging lines are transferred from profiles on to the base of the foundation. [9]

(ii) Show how the door frame shown in **Figure 1** can be secured into the walls of the building. [10]

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