EXODUS COLLEGE SCHOOL
TECHNICAL DRAWING
S.5 END OF TERM 2 2026
PAPER 3
3 HOURS

INSTRUCTIONS:

- This examination paper consists of two compulsory items.
- Respond to all items.
- Responses to Item 1 must be written in the answer booklet provided.
- Responses to Item 2 must be done on the drawing paper size A2 provided.

Item 1

A community hall constructed several years ago was supported by timber columns along its front veranda. During a recent inspection, it was discovered that some of the columns had been severely weakened by termite attack and prolonged exposure to moisture. The deterioration raised concerns about the safety and stability of the structure, especially during periods of high occupancy.

The management committee resolved to replace the damaged supports with stronger and more durable members. However, because the site experiences high moisture levels throughout the year, the committee ruled out the use of metallic pipe supports due to the likelihood of corrosion and the resulting maintenance costs. A suitable alternative was therefore required to provide long-term structural stability and safety.

Task

Make a write up of how this damage can be corrected

Item 2

Exodus College School has plans of constructing a canteen to serve the increasing number of students at school. The head teacher contacted the builder with a picture of a single pitched building in the figure below to construct the same design. He said one room 3mx2.5m for O'level section, the other 3.5m x 2.5m for A'level section and a shade which is 1.5 meters wide, to shield the students from the sun and rain when they visit it. The builder advised that to guide the construction the head teacher should get both scaled lay out of the rooms and a detailed drawing showing the foundation up to the roof.

Task

Design and produce the drawings required

