



UGANDA BUSINESS AND TECHNICAL EXAMINATIONS BOARD

PAPER CODE TCWT 204	PROGRAMME 'NATIONAL CERTIFICATE IN WOOD TECHNOLOGY YEAR II	DATE THURSDAY, 29 TH NOVEMBER 2018
SERIES NOV/DEC 2018	PAPER NAME COMPUTER AIDED DESIGN DRAWING	TIME ALLOWED 3 HOURS

YOU SHOULD HAVE THE FOLLOWING FOR THIS EXAMINATION

A Computer with AutoCAD and CD burning software installed

Non-Programmable Electronic Calculator

Printer

Printing Papers, A4 size

INSTRUCTIONS TO CANDIDATES

1. This paper consists of **three** practical questions.
2. Answer only **two** questions.
3. All questions carry equal marks.
4. Do not write anywhere on this question paper.
5. Create a folder on the desktop in your name and registration number where you should save all your work before being picked by the Lab. Technician/Examiner at the end of the examination. Both questions **MUST** be saved in this folder.
6. Do not leave the examination room until you are instructed to do so.

Question One

Fig.1 shows the elevation of a side board designed for the living room in a residential house. With all units in millimeters, study it carefully and answer the questions that follow.

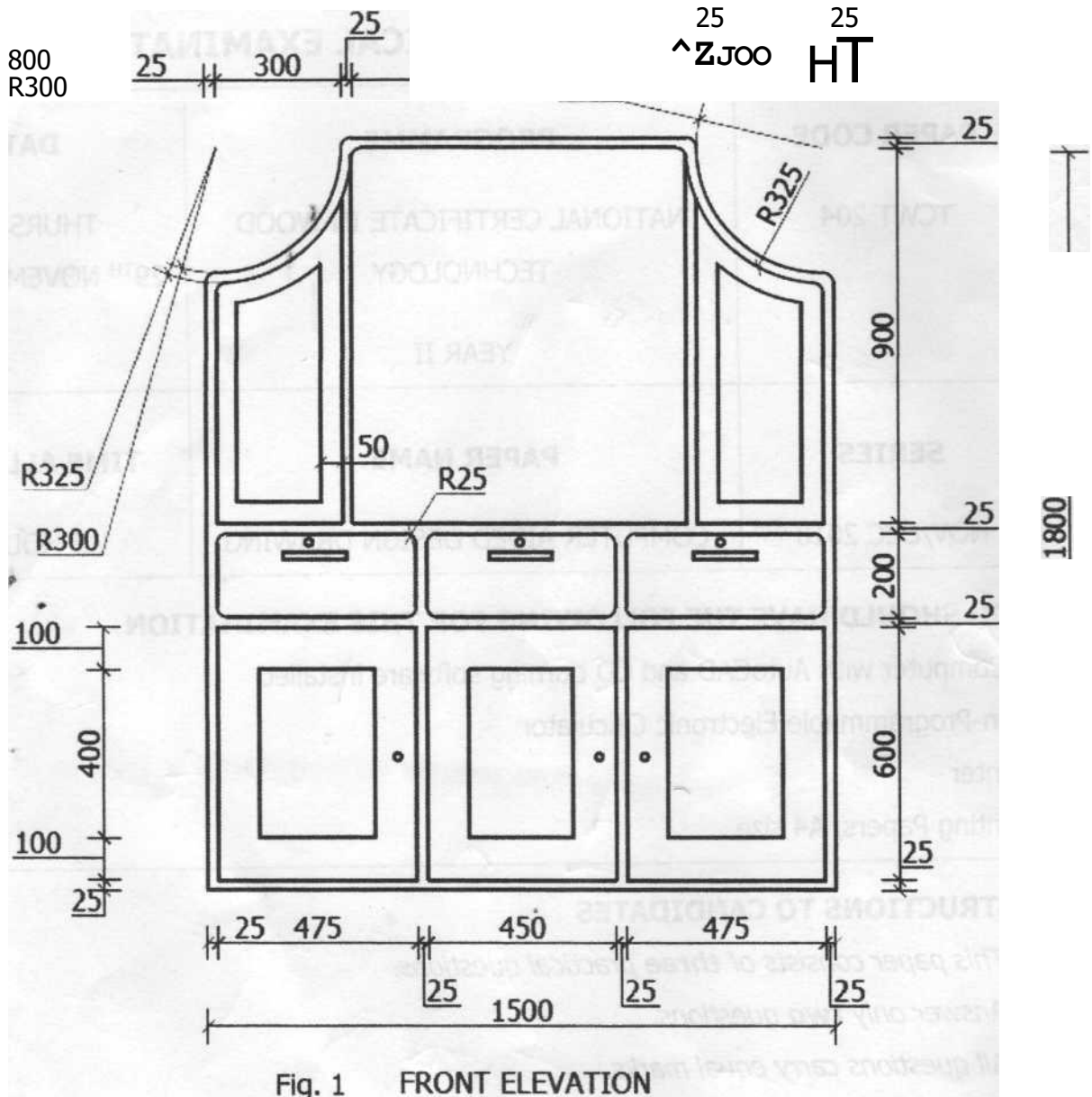


Fig. 1 FRONT ELEVATION

- Open the AutoCAD application and save the blank file in the folder created on the desktop using your registration number as the File name e.g. UBT002-2017-TC001. (02 marks)
- With the use of AutoCAD application commands, reproduce the side board as seen in Fig. 1. (34 marks)
- Show all the dimensions of the drawing using the following settings of the dimension style manager:
 - Text height is 80.
 - Arrowhead style is *oblique* and the size is 50.

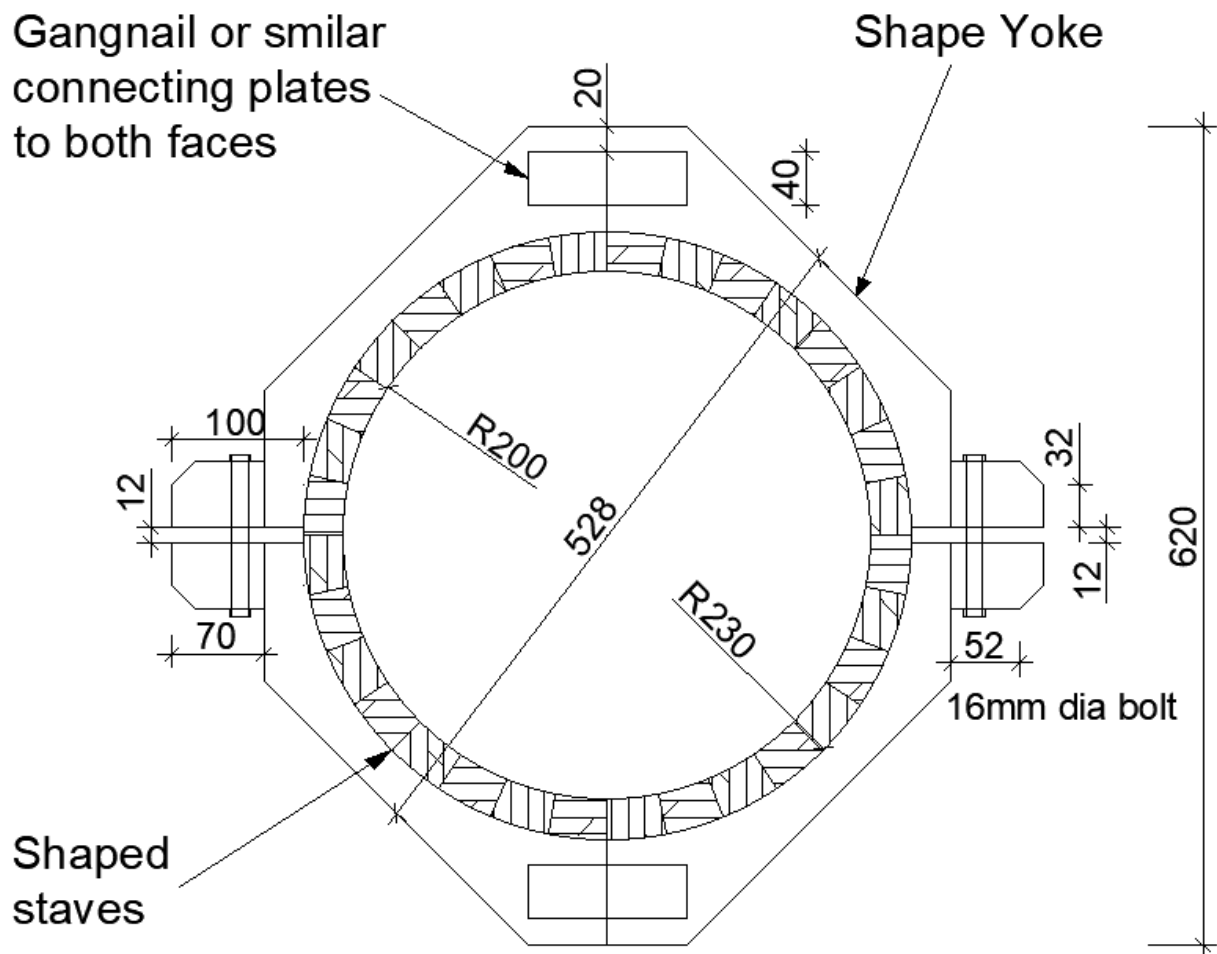
in Fig. 2 labelling all the parts.

(34 marks)

- (c) Show all the dimensions of the drawing using the following settings in the dimension style manager:
- (i) Text height is 80.
 - (ii) Arrowhead style is oblique and the size is 50.
 - (iii) Primary units precision is zero.
 - (iv) Line - Extend beyond dim line is 50.
- Fixed length extension line is 50. (10 marks)
- (d) Plot the drawing as »a PDF file and save it in the folder created on the desktop using the name of the drawing and your name as the file name e.g. Timber floor-Wabeya Chris. (02 marks)
- (e) Print a copy of your work. (02 marks)

Question Three

The drawing in Fig. 3 shows the cross-section of a circular timber formwork column of radius 200mm. With all units in millimeters, study it carefully and answer the questions that follow.



- (a) Open the AutoCAD application and save the blank file in the folder created on the desktop using your name and registration number as the file name e.g. Wabeya Chris-UBT002-2017-TC001. (02 marks)
- (b) With the use of AutoCAD application commands, reproduce the circular column formwork in Fig. 3 and label it as shown. (34 marks)
- (c) Show all the dimensions of the drawing using the following settings of the dimension style manager:
- (i) Text height is 10.
 - (ii) Arrowhead style is oblique and the size is 50.
 - (iii) Primary units precision is zero.
 - (iv) Line - Extend beyond dim line as 50.
- Fixed length extension line is 50. (10 marks)
- (d) Plot the drawing as a PDF file and save it in the folder created on the desktop using the name of the drawing and your name as the file name e.g. Circular column form work-Wabeya Chris. (02 marks)
- (e) Print a copy of your work. (02 marks)

END