

ST. JOSEPH'S TECHNICAL INSTITUTE KISUBI



PAPER CODE TCWT 204	PROGRAMME NATIONAL CERTIFICATE IN WOODWORK TECHNOLOGY YEAR II	DATE MONDAY, 25 th JULY 2022
SERIES JULY 2022	PAPER NAME COMPUTER AIDED DESIGN DRAWING	TIME ALLOWED 3 HOURS
YOU SHOULD HAVE THE FOLLOWING FOR THIS EXAMINATION Computer with AutoCAD and Non-Programmable Electronic Calculator		

INSTRUCTIONS TO CANDIDATES

1. *This paper consists of **two** practical questions.*
2. *Answer **All** 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 will save all the work.*
6. *Do not move out of the examination room until your work has been transferred or picked.*

Question One

Fig. 1 shows the drawings of Church door design samples from four (4) different sources suitable for a new office building. As a Carpenter, your client is requesting for the scaled drawings of the doors. Study the figure carefully and answer the questions that follow if all dimensions are in millimetres (mm).



Fig. 1

- (a) Create a folder on the desktop in your name and registration number e.g., Fembe John-UBT004-2017-TC001. Open the AutoCAD application window and save the blank file in your registration number e.g., UBT004-2021-T-C-M-000 (03 marks)
- (b) With the use of AutoCAD application commands, reproduce the flush door as seen in Fig.1 to correct dimensions. (05 marks)
- (c) Make three more copies of the drawing in (b) and edit it to produce;
- (i) Glazed Panelled door (05 marks)
 - (ii) Semi Beaded Panelled door (10 marks)
 - (iii) Raised Panelled door (15 marks)
- (d) Show all the dimensions of the drawing using the following settings of the dimension style manager.
- Text height is 120.
 - Arrow head style is *Dot small blank* and the size is 100.
 - Primary units precision is zero.
 - Line -Extend beyond dim line is 100
 - Fixed length extension line is 100
- (10 marks)
- (e) Plot the drawing in pdf file and save it in the folder created in (a) using the title of drawing and your registration number e.g., Doors- UBT004-2021-T-C-M-000. (02 marks)

Question Two

The drawing in Fig.2 shows a Double Flying Shore truss of a client's renovation a storeyed house having a span of 8000mm. In order to generate the bills of quantities for the materials, a scaled drawing has been requested by the client. Study it carefully and answer the questions that follow.

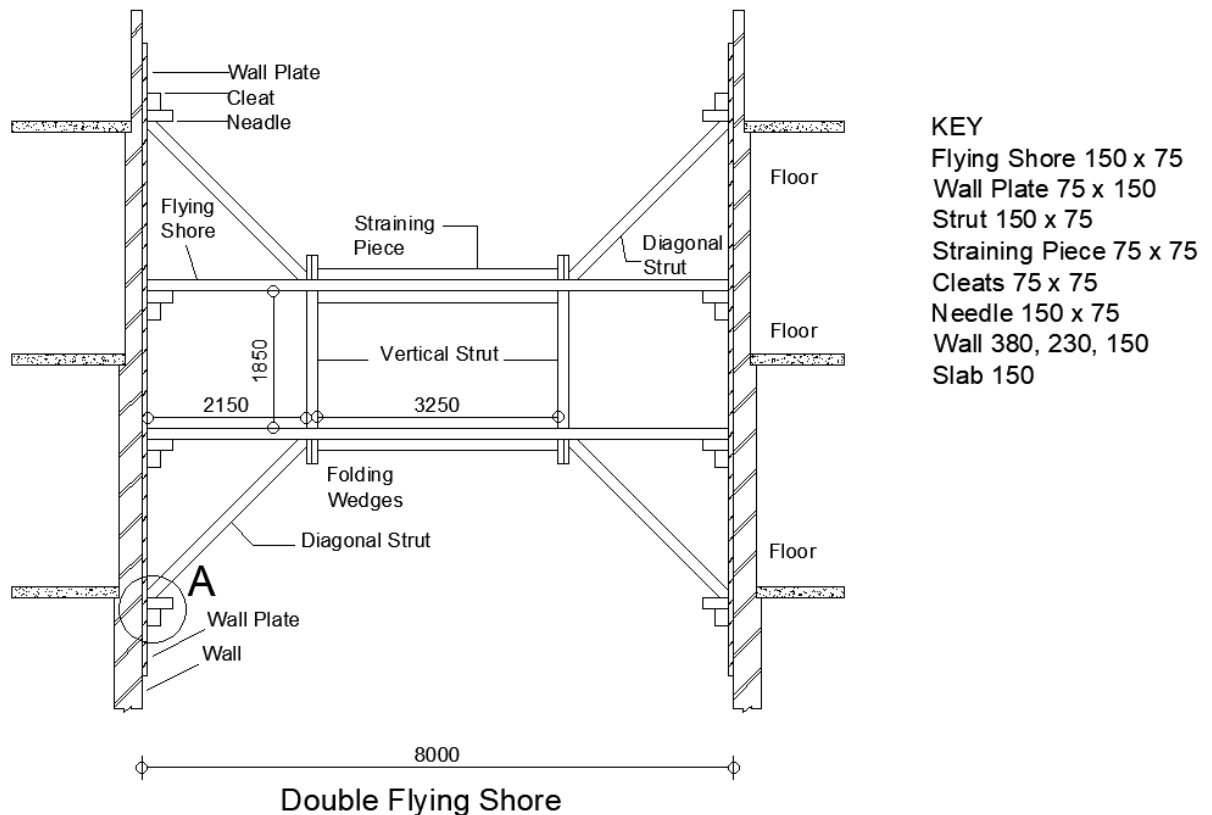


Fig. 2

- Create a folder on the desktop in your name and registration number e.g., Fembe John - UBT004-2021-T-C-M-000. Open the AutoCAD application and save the blank file in your name e.g., Fembe John. (03 marks)
- With the use of AutoCAD application commands, reproduce the double flying shore as seen in Fig. 2 to correct dimensions and draw details at "A". (30 marks)
- Write the double flying shore specification notes in the order indicated in the figure 2. (05 marks)
- Show all the dimensions of the drawing using the following settings of the dimension style manager.
 - Text height is 200
 - Arrow head style is **Dot blank** and the size is 150
 - Primary units precision is zero
 - Line -Extend beyond dim line is 150
 - Fixed length extension line is 150(10 marks)
- Plot the drawing in pdf file and save it in the folder created in 2(a) using the title of the drawing and your name. e.g., Double Flying Shore - Fembe John, drawing and your registration number e.g., Double Flying Shore - UBT004-2021-T-C-M-000. (02 marks)

END