



SECOND SEMESTER EXAMINATIONS 2018/2019 ACADEMIC SESSION

COURSE: GNE 202 Workshop Practice and Manufacturing Technology (3 Units)
CLASS: 200 Level General Engineering

TIME ALLOWED: 3hrs

HOD'S SIGNATURE

INSTRUCTIONS: Answer any five questions

Date: July, 2019

Question 1

- 1a. Define the following terms; (i) Workbench (ii) Benchwork **4 marks**
b. Sketch and describe the following hand tools;
(a) Pincer (b) Mallet (c) G-Clamp (d) F-Clamp **8 marks**

Question 2

- 2a. List four (4) Classifications of carpentry **4 marks**
b. List out adhesive materials used in carpentry **4 marks**
c. Sketch and describe the following joints made in carpentry shop;
(i) Lap joint (ii) Mortise and Tenon joint (iii) Groove and Tongue joint (iv) Dovetail joint **4 marks**

Question 3

- 3a. Define the following terms;
(i) Welding
(ii) Arc Welding
(iii) Weld-ability of a metal **3 marks**
b. Explain the three (3) Classifications of Welding **3 marks**
c. What are the factors affecting the weld-ability of a metal? **3 marks**
d. List at least three (3) disadvantages of welded joint **3 marks**

Question 4

- 4a. What is the function of the following parts on the lathe machine?
(i) Tail stock spindle (ii) Spindle speed display (iii) Carriage or saddle (iv) Tool post
(v) Tool holder (vi) Compound slide hand wheel **6 marks**
b. Explain with the aid of diagram 4 different tools used on the lathe machine. **6 marks**

Question 5

- 5a. List three common causes of accident in the workshop. **3 marks**
- b. What is the purpose of a system of safety colors and safety signs? **3 marks**
- c. Briefly explain the following common types of accident **6 marks**
(i) Near Accident (ii) Trivial (iii) Minor Accident (iv) Serious Accident

Question 6

- 6a. What are the main advantages of using power tools? **4 marks**
- b. Name eight types of file. **8 marks**

Question 7

- 7a. What do you understand by the term plant layout? **4 marks**
- b. What are the major objectives of plant layout? **4 marks**
- c. What are the common advantages of a good plant layout? **4 marks**