




ELIZADE UNIVERSITY, ILARA-MOKIN,
ONDO STATE, NIGERIA
DEPARTMENT OF
MECHANICAL, AUTOMOTIVE AND PRODUCTION
ENGINEERING

SECOND SEMESTER EXAMINATIONS

2016/2017 ACADEMIC SESSION

COURSE: MEE 306 – Workshop Practice (2 Units)
CLASS: 300 Level Mechanical & Automotive Engineering
TIME ALLOWED: 2 Hours
INSTRUCTIONS: Answer any four questions


HOD'S SIGNATURE

Date: July/August, 2017

Question 1

- What do you understand by workshop setting? (5 marks)
- List five important factors for installation of plant in workshop (5 marks)
- Discuss five criteria for good layout (10 marks)
- Having performed various workshop practices in the University workshop, sketch-out the plant layout. Advice where necessary for a better positioning (5 marks)

Question 2

- Write short note on three types of workshop layout (9 marks)
- Mention two basic types of chip in machining (4 marks)
- Enumerate three merits of a good layout (6 marks)
- Describe two types of metal removal processes (6 marks)

Question 3

- With a sketch diagram, what do you understand by a lathe machine? (7 marks)
- Lathe machine is considered as the father of all machines and the most important workshop tool. Discuss. (5 marks)
- Write short note on four parts of a lathe machine (8 marks)
- List five functions of cutting fluids in machining operations (5 marks)

Question 4

- (a) Discuss with sketches four important machining operations (12marks)
- (b) Differentiate between milling operations and turning operations (4marks)
- (c) Why is machining important in workshop practice? (5marks)
- (d) Mention two disadvantages of machining processes (4marks)

Question 5

- (a) What do you understand by CNC? (5marks)
- (b) Typical CNC system consists of six elements. Mention four of them (4marks)
- (c) Write short note on three advantages of CNC and two disadvantages (10marks)
- (d) Write short notes on two CNC machines feedback devices (6marks)

Question 6

- (a) What is workshop safety? (5marks)
- (b) Enumerate ten safety precautions in the workshop. (10marks)
- (c) What are the objectives of industrial safety? (4marks)
- (d) Describe three types /categories of hazards in the workshop (6marks)