



FEDERAL UNIVERSITY OYE-EKITI
FACULTY OF ENGINEERING
2018/2019 SESSION FIRST SEMESTER EXAMINATION
WORKSHOP TECHNOLOGY MEE 201

Answer any Three Questions

Time: 2 hours

QUESTION ONE

- (a) Explain with five reasons why industrial safety is very important in mechanical workshop (4marks)
- (b) Describe any three of the following hand tools with sketch diagram (6marks)
- | | | | |
|------------|----------|-----------------|------------|
| i. Hacksaw | ii. File | iii. Bench vice | iv. Hammer |
|------------|----------|-----------------|------------|
- (c) With a sketch diagram, describe any three of the following measuring tools? (6marks)
- | |
|---------------------------|
| i. Vernier caliper |
| ii. Inside caliper |
| iii. Outside caliper |
| iv. Engineer's protractor |
| v. Outside micrometer |
- (d) State four uses of metal cutting fluids (4marks)

QUESTION TWO

- a. What is workshop Technology (4marks)
- b. Write short notes on the following production processes: i. Job production ii. Batch production and iii. Mass production (6marks)
- c. Briefly explain three methods of joining metal, stating one of its advantages and disadvantages (9marks)
- d. Sketch FUYOE University main workshop, and identify how various machines are installed (6marks)

QUESTION THREE

- a. Lathe machine is believed to be the mother of all machines. Discuss (5marks)
- b. Sketch a lathe machine, and label five principal parts. (7marks)
- c. Write short notes on four components of a lathe machine (8marks)
- d. What is the significance of sheet metal in the workshop (5marks)

QUESTION FOUR

- a. Describe three advantages of a good workshop layout (6marks)
- b. Write short notes on two types of workshop layout (4marks)
- c. Differentiate between a lathe machine and a milling machine (5marks)
- d. In a tabular form, enumerate five differences between hard wood and soft wood (10marks)

FEDERAL UNIVERSITY (Y.E.F.U)
FACULTY OF ENGINEERING
2017/2018 SESSION FIRST SEMESTER EXAMINATION
WORKSHOP TECHNOLOGY I (MEE 201)

Answer any Three Questions

Time: 1½ Hours

Unit: I

QUESTION ONE

- Why is safety important in a workshop? (5marks)
- Explain five safety measures required in working with any of the following machines:
(i) Lathe machine (ii) Grinding machine (iii) Milling machine (5marks)
- Define a lathe machine (5marks)
- Identify five components of a lathe machine (5marks)

QUESTION TWO

- Describe any four of the marking out tools (4marks)
- Describe any three of the following hand tools with sketch diagram (6marks)

- Hack saw
- File
- Bench vice
- Hammer

- With a sketch diagram, describe any three of the following measuring tools (6marks)

- Vernier caliper
- Inside calliper
- Outside caliper
- Engineer's protractor
- Outside micrometer

- State four uses of metal cutting fluids (4marks)

QUESTION THREE

- Write short notes on the following methods by which parts may be joined: (9 marks)

- Mechanical fasteners
- Adhesive bonding
- Welding

- State four advantages of using adhesives instead of mechanical or heat joining methods (4marks)
- Describe the processes undertaken in carrying out the MEE 201 practical work you were involved. (7marks)

QUESTION FOUR

- In a tabular form, enumerate five differences between hard wood and soft wood (10marks)
- State five other materials used in carpentry shop besides timber (5marks)
- State five uses of wood (5marks)