

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF SCIENCE AND TECHNOLOGY EDUCATION
DEPARTMENT OF INDUSTRIAL AND TECHNOLOGY EDUCATION

Course Title: AUTOMOBILE WORKSHOP PRACTICE

Course Code: ITE 527

Course Unit: 2

TIME : TWO HOURS

Session: 2021/2022 SECOND SEMESTER EXAMINATION

Instruction: Answer Any Four Questions Only.

1a. What is engine reconditioning?

5 marks

1b Produce a neat sketch of the layout of a modern automobile workshop.

10 marks

2a. State the major purpose of grinding a faulty crankshaft during engine reconditioning operation.

5 marks

2b. With the aid of neat labeled diagram, explain how a faulty crankshaft can be grinded during engine reconditioning operation.

10 marks

3a. State the major purpose for reboring a faulty engine cylinder during engine reconditioning operation.

5 marks

3b. With the aid of neat labeled diagram, explain how a cylinder reboring operation can be carried out on a worn cylinder for a four cylinder in-line engine.

10 marks

4a. Why is cylinder honing necessary after cylinder reboring operation during engine reconditioning activities?

5 marks

4b. With the aid of neat labeled diagram, explain cylinder honing operation for a six-cylinder V-engine.

10 marks

5a. What is decarbonization and why is decarbonization necessary during overhauling of automobile engine.

5 marks

5b. List and explain the three methods of decarbonizing an automobile engine.

10 marks

6a. Outline any five (5) common symptoms necessitating overhaul of an automobile engine.

5 marks

~~Sketch and~~ briefly explain any five (5) critical uses of dial gauge indicators in automotive repair shop.

10 marks