

BA SANGAM COLLEGE
YEAR 12
APPLIED TECHNOLOGY
WORKSHEET 5

(Attempt the questions at the back of your exercise book)

QUESTION 1

SMALL ENGINES

(10 marks)

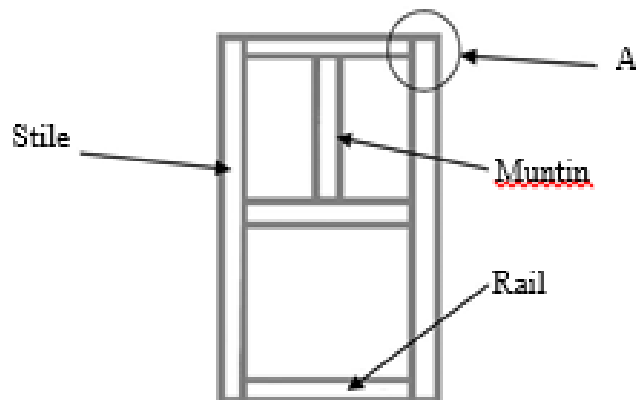
- (a) Study the diagram of the parts of a two-stroke engine given below and answer the questions that follow.



- (i) Name the parts labeled A, B and C. **(3 marks)**
- (ii) Name the parts that provide the following functions in a two- stroke engine:
- I. Surrounds and protects all other parts of the engine.
 - II. Traps dirt and sediment from the gas before it is delivered to the carburetor.
 - III. Ignites the air and fuel mixture. **(3 marks)**
- (b) (i) Make a freehand sketch to show the exhaust and intake ports of a two stroke engine. **(2 marks)**
- (ii) Explain how a two- stroke engine is lubricated and cooled. **(2 marks)**

QUESTION 2**BASIC HOME IMPROVEMENT****(10 marks)**

- (a) Plumbing is the systems of pipes, tubing and plumbing for drinking water systems and the drainage of waste.
- (i) Explain the purpose of water meters installed by the water authority. **(1 mark)**
 - (ii) Name two causes of water leakages in a water tap. **(2 marks)**
 - (iii) State two advantages of direct water supply systems. **(2 marks)**
- (b) Generally the Electrical wires that supply power comprise of active, neutral and earth wires.
- (i) State the colour codes of the active and earth electrical wires used in house wiring. **(2 marks)**
 - (ii) State the purpose of the neutral wire in an electrical circuit. **(1 mark)**
- (c) Study the diagram of a panel door given below and the questions that follow:



- (i) Name a suitable joint to hold the stile and rail at the corner labeled A. **(1 mark)**
- (ii) State the purpose of the Muntin in a paneled door. **(1 mark)**