

QUESTION ONE

- a) State FOUR objectives/aims of ideal building drainage system
(4 Marks)
- b) List any FOUR basic plumbing tools and their functions
(4 Marks)
- c) Explain any FOUR conditions which necessitates the construction of a manhole in a sewerage system
(4 Marks)
- d) Distinguish between welding and soldering
(4 Marks)
- e) List any FOUR types of pipe fittings used in water supply systems
(4 Marks)

QUESTION TWO

- a) List any FOUR types of pipes used in water supply systems and state any ONE advantage for each type listed.
(8 Marks)
- b) With the aid of a neat sketch, compare and contrast between direct and indirect cold water supply system
(7 Marks)

QUESTION THREE

- a) State any FIVE safety procedures in arc welding.
(5 Marks)
- b) With the aid of a neat arc welding circuit, explain the principle of arc welding
(10 marks)

QUESTION FOUR

- a) State any FIVE safety procedures in Oxy-Acetylene gas welding.
(5 Marks)
- b) Explain how you can set the following flame types in Oxy-Acetylene gas welding
 - i. Neutral flame
 - ii. Carburizing
 - iii. Oxidizing.(6 Marks)
- c) With the aid of neat sketches show any TWO types of welded joints
(4 Marks)