

SHEET 1

PENANG SANGAM HIGH SCHOOL

YEAR 13

APPLIED TECHNOLOGY

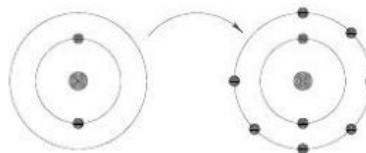
WORKSHEET – 2

MULTIPLE CHOICE QUESTION

(5 marks)

1. The most common cause of accidents in the workshop is
 - A. Lack of skills.
 - B. Defective tools.
 - C. Lack of equipment.
 - D. Failure to follow instructions.
2. The ability of a metal to undergo **all** kinds of deformation processes is known as
 - A. Ductility.
 - B. Elasticity.
 - C. Malleability.
 - D. Formability.
3. Which type of bonding is **best** described by the diagram given below?

- A. Ionic bonding
- B. Metallic bonding
- C. Covalent bonding
- D. Van der waals bonding
- E.



4. Brinell, Vickers and Rockwell tests are carried out on materials to determine their abilities to
 - A. Be drawn into thin wires.
 - B. Be shaped by compression forces.
 - C. Resist plastic deformation by penetration.
 - D. Resist the thermal and electrical conductivity.
5. The two materials which make up fibre glass are glass fibre and
 - A. Handle.
 - B. A catalyst.
 - C. Plastic resin.
 - D. Plastic filter.
 - E. Reinforcement.

SHEET 2

SHORT ANSWER QUESTIONS

(14 marks)

1. Sketch the Stress vs Strain Curve for copper.

(2 marks)

Engineering material terms (Timber)

2. Define the following terms:

- (i) Dressing.
- (ii) Seasoning.
- (iii) Conversion.
- (iv) Prevention.

(4 marks)

Engineering material terms (PVC, Metal and Tiles)

3. Define the following terms:

- (i) Dressing metal.
- (ii) Ceramic.
- (iii) Polymer.
- (iv) Composite.

(4 marks)

Design Terms

4. Define the following terms:

- (i) Unity.
- (ii) Utility.
- (iii) Variety.
- (iv) Proportion.

(4 marks)

THE END