Unit 10

Answers: Metallurgy

Quick checks

1 b

2 c

3 c

4 b

5 c

6 b

1 a. b

1 b. c

1 c. a

1 d. d

1 e. c

1 f. b

1 g. **d**

2 a.

2 b.

2 c.

2 d.

2 e.

2 f.

2 g.

3 i.

Roasting	Calcination

3 ii.

Cast iron	Steel

3 iii.

Dilute sulphuric acid	Dilute nitric acid

4 a.

1.

2.

3.

4.

5.

4 b.

4 c.

- **Zone of combustion (1,300–1,500 °C):**
- **Zone of fusion (1,200–1,300 °C):**
- **Zone of slag formation (700–1,000 °C):**
- **Zone of reduction (400–700 °C):**

4 d.

- **Iron:**
- **Copper:**
- **Aluminium:**
- **Silver:**
- **Gold:**

4 e.

4 f.

5 a.

0.2 g

2.24 L

5 b.

The aluminium gives more: 3.36 L against 2.24 L

5 c.

4.48 L at STP

5 d.

$$\rho = \frac{23.3}{1.30} = 17.9\ ^{3}$$

It is not pure gold