



- (b) What do you mean by setting of cement?
- (c) Write four properties of ceramics.
- (d) How urea is manufactured?
- (e) What are primary and secondary batteries? Give examples of each.
- (f) How fire retardant paint works?

3. Answer the following questions (*any five*): 3x5 = 15

- (a) Explain the procedure adopted for the manufacture of glass.
- (b) Discuss how advanced ceramics are classified depending upon composition?
- (c) What are straight, complex and mixed fertilizers?
- (d) Discuss the composition of paint.
- (e) Write about the anodizing process
- (f) Explain the working of a lead acid battery.

4. Answer the following questions:

(a) Discuss the working of solar cell. What are the advantages of a solar cell? 3+2 = 5

(b) Discuss different type metallic coating and their effect on the end product. 3+2 = 5

(c) Write short notes on following (*any two*): 2.5x2 = 5

- (i) Carbon nanotube
- (ii) Annealing
- (iii) Solid state battery