

Subject Code: R13104/R13**Set No - 4**

- 7.(a) Write notes on (i) applications of liquid crystals (ii) any one method of green synthesis (iii) fiber reinforced plastics
- (b) Discuss sacrificial anodic protection method.
- (c) Calculate the emf of the following cell: $\text{Zn (s)}/\text{Zn}^{2+} (0.1 \text{ M})// \text{Cu}^{2+} (1.50\text{M})/\text{Cu(s)}$ at 25°C . $E^\circ_{\text{Zn}^{2+}/\text{Zn (s)}} = -0.76 \text{ V}$ and $E^\circ_{\text{Cu}^{2+}/\text{Cu(s)}} = +0.34 \text{ V}$.

[10+3+7]