

## **Hemoglobin**

1. Write short notes on: (i) Free haemoglobin (iii) Foetal haemoglobin (v) HbA1c (vii) Abnormal haemoglobins (ii) Haemoglobinopathies (iv) Thalassaemia (vi) Functions of haemoglobin (viii) Cooley's (or Mediterranean) anaemia
2. What will happen and why? (i) If iron in haem is present in ferric form? (ii) If HbF persists during adult life? (iii) If haemoglobin was dissolved in plasma? (iv) If glutamic acid in  $\beta$ -chain of HbA gets replaced by valine
3. Describe the factors controlling haemoglobin formation.