

## P25/P27/HSC125/EE/20160525

Time : 3 Hours

Marks : 80

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### Instruction :

1. All Questions are Compulsory.
  2. Each Sub-question carry 5 marks.
  3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
  4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
  - a) What are Reticulocytes? Write its significances. 5
  - b) What are Amino Acids? Write the names of any three disorder of amino acid metabolism. 5
  - c) What is the Biochemistry of Sickle cell anemia? 5
  - d) Define the following terms : 5
    - i) Toxicology
    - ii) Anabolic steroids
  - e) Write a short note on Random Access Analyzer. 5
2. Solve any **four** sub-questions.
  - a) What are the Viruses? 5
  - b) Write the important of protein electrophoresis. 5
  - c) Write a short note on Mumps. 5
  - d) Define the following terms : 5
    - i) Chromosome
    - ii) Zygote
  - e) List the heavy metals which may pollute the surrounding. 5

3. Solve any **four** sub-questions.
- a) Write a short account on the Hemolysis. 5
  - b) Which tests are included in the arthritis profile? 5
  - c) What is toxic nodular goiter? 5
  - d) What is the main component of the innate immune system? 5
  - e) What are the main symptoms of alkaptonuria? 5
4. Solve any **four** sub-questions.
- a) How HIV is transmitted from person to person? 5
  - b) Define the term Hypertension? Which device is used to measure it. 5
  - c) Explain the lytic cycle in detail. 5
  - d) List the cardiac profile tests. 5
  - e) Write in short the use of : 5
    - i) Automated analyzers
    - ii) Immunoassay analyzers.

