



**UNIVERSITY OF NORTH BENGAL**

B.Sc. General Part-II Examination, 2020

**COMPUTER SCIENCE**

**PAPER-V (Revised New Syllabus)**

Time Allotted: 1 Hour

Full Marks: 25

*The figures in the margin indicate full marks.*

**Answer Question No. 8 and any two questions, taking at least one from each group**

**GROUP-A**

1. Discuss in detail the basic building blocks of a computer system with the help of a suitable diagram. 10
2. What do you understand by Addressing modes? Discuss with examples any four different types of addressing mode. 10
3. What are Primary memories? Discuss memory hierarchy with a suitable diagram. 10
4. Write short notes on any **two** of the following: 5×2 = 10
  - (i) Interrupt
  - (ii) CPU registers
  - (iii) Visual Display Unit
  - (iv) Instruction Formats.

**GROUP-B**

5. Explain the concept of Cohesion and Coupling in software development. High cohesion and low coupling is desired in software – Justify it. 10
6. Discuss these testing methods – Module testing, System testing,  $\alpha$ -testing and  $\beta$ -testing. 10
7. Discuss the responsibilities of a system analyst in system analysis and design. 10
8. Write short note on any **one** of the following: 5×1 = 5
  - (i) Software Verification versus Validation
  - (ii) Feasibility studies in Software design
  - (iii) Phases of Waterfall model
  - (iv) Data gathering techniques.

—×—