



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL

B.Sc. General Part-II Examination, 2022

COMPUTER SCIENCE

PAPER-V

Time Allotted: 2 Hours

Full Marks: 50

*The figures in the margin indicate full marks.
All symbols are of usual significance.*

GROUP-A

(COMPUTER ORGANIZATION)

1. Answer any *five* questions: 5×5 = 25
- (a) What is meant by an instruction cycle? Describe its phases briefly.
 - (b) What does memory hierarchy mean? What is its significance?
 - (c) Explain the synchronous and asynchronous I/O technique.
 - (d) With the help of a block Schematic, explain the basic organizational units of a digital computer.
 - (e) Explain the characteristics of RISC and CISC systems.
 - (f) How Floating point numbers are represented in computer system. Explain with example.
 - (g) Explain DMA method of data transfer in detail.
 - (h) Explain various types of buses in a computer system.

GROUP-B

(SYSTEM ANALYSIS AND DESIGN)

2. Answer any *five* questions : 5×5 = 25
- (a) Explain Classical waterfall model.
 - (b) Explain the role of System Analyst.
 - (c) Explain different data gathering techniques.
 - (d) Explain different types of module coupling.
 - (e) What is the purpose of testing? Discuss Alpha and Beta Testing.
 - (f) Write short note on system maintenance.
 - (g) Explain black-box testing methods.
 - (h) Write short notes on DFD.

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