

Roll.No.

25UACT1002

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN  
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)  
Chromepet, Chennai - 600 044.

B.C.A. - END SEMESTER EXAMINATIONS - NOVEMBER 2025  
SEMESTER - I

**25UACT1002 - Information Technology Informatics**

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

### Section B

Answer any **SIX** questions ( $6 \times 5 = 30$  Marks)

1. Describe the evolution of IT from the pre-computer era to the Internet age.
2. Explain the role of microprocessors in the development of personal computers.
3. Prepare an algorithm and flowchart to find the largest of three numbers.
4. Differentiate between structured programming and modular programming in C with examples.
5. Explain the process of Agile Model in an application.
6. Differentiate between IaaS, PaaS and SaaS with real-world examples.
7. Justify the selection of a star topology over a bus topology in a corporate environment.
8. Discover the potential benefits and risks in integrating AI and ML in healthcare systems.

### Section C

Answer any **THREE** questions ( $3 \times 10 = 30$  Marks)

9. Illustrate the phases of the Software Development Life Cycle (SDLC) with suitable examples.
10. Design a simple relational database schema for a library management system using SQL.
11. Apply HTML forms and input types to design a user registration page.
12. Analyze the role of each layer of the OSI model in the transmission of an email from sender to receiver.
13. Evaluate the benefits and limitations of ChatGPT in educational applications.

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