QP CODE: 25805798

25805798

Reg No : .....

Name : .....

I M C A DEGREE EXAMINATION, DECEMBER 2025

Ninth Semester

INTEGRATED MCA

ELECTIVE - IMCA9E04D - INFORMATICS AND CYBER ETHICS

2020 Admission Onwards

DE81DA31

Time: 3 Hours Maximum: 75 Marks

Part A

*Answer any **ten** questions*

*Each question carries **3** marks*

1. What is the client-server model in computer networks?
2. What are the main components of the WWW?
3. What is the difference between a web browser and a web server?
4. What is Open Access (OA) publishing? Name any two Open Access publishing models.
5. How does educational software enhance the teaching and learning process?
6. Explain the difference between a guarantee and a warranty in technology purchases.
7. Define Intellectual Property Rights (IPR) and its purpose.
8. Define cyberspace and explain its significance in the digital world.
9. What are malware attacks?
10. How does cyber addiction affect mental health?
11. How does e-waste impact water and soil pollution?
12. What are the challenges of localization in software development?

(10×3=30 marks)

Part B

*Answer **all** questions*

*Each question carries **9** marks*

13. a) Compare and contrast IPv4 and IPv6 addressing in Internet communication.

OR

b) Describe a URL (Uniform Resource Locator) and Explain its components with examples.

14. a) Explain the different open access publishing models with examples.

OR

b) Describe a situation where you, as a student , would use the services provided by INFLIBNET, NPTEL, NICNET, or BRNET to enhance your learning activities. Provide specific examples.

15. a) Explain Free Software Movement and the main goals of the Free Software Movement.

OR

b) Discuss the role of IT in improving education in developing countries.

16. a) Explain IT applications in 1) public distribution system 2) Pension 3) banking 4) post

OR

b) Classify cybercrimes based on the target person, property, government.

17. a) What is Green Computing? Explain the objectives of green computing.

OR

b) Discuss e-Governance initiatives in India with suitable examples.

(5×9=45 marks)