(6 pages)   Reg. No. : _____

Code No. : 10472 E   Sub. Code : CNCS 32

U.G. (CBCS) DEGREE EXAMINATION, APRIL 2023

Third Semester

Computer Science – Non Major Elective

BASIC PROGRAMMING DESIGN

(For those who joined in July 2021 onwards)

Time : Three hours   Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. To give a set of instructions to a computer is called _____

    (a) Algorithm   (b) Flowchart
    (c) Program   (d) None

2. Diagrammatic representation of algorithm is called _____

    (a) program   (b) flowchart
    (c) both (a) and (b) (d) none

3. _____ is the process of executing a program with the intent of finding errors.

    (a) Program testing (b) Documentation
    (c) Compiling   (d) None

4. _____ programming is a type of programming that generally executes in sequential order.

    (a) Structured   (b) Unstructured
    (c) Both (a) and (b) (d) None

5. The components used in third generation of computers _____

    (a) Vaccum tube   (b) Capacitor
    (c) Transistor   (d) IC

6. Features of good programming language _____

    (a) Performance   (b) Cost
    (c) Reusability   (d) All the above

7. Physical components of a computer _____

    (a) Hardware   (b) Software
    (c) Both (a) and (b) (d) None

8. _____ is a type of computer program that is designed to run a computer's hardware and application programs.

    (a) Application software
    (b) System software
    (c) Both (a) and (b)
    (d) None

9. A _____ is a company that provides individuals and organizations access to the internet and other related services.

    (a) ISP   (b) WWW
    (c) URL   (d) None

10. Internet applications : _____

    (a) Email   (b) FTP
    (c) Telnet   (d) All the above

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).
Each answer should not exceed 250 words.

11. (a) Define algorithm. Write an algorithm for addition of two numbers.

    Or

    (b) List out any three advantages and disadvantages of decision table.

12. (a) What is program documentation?

    Or

    (b) Give a brief note on structured and unstructured programming.

13. (a) How do you classify the programming language?

    Or

    (b) Write short note on any three features of good programming language.

14. (a) Define the terms :

        (i)   fireware
        (ii) liveware
        (iii) freeware.

    Or

    (b) Define the terms :

        (i)   Public domain software
        (ii) Commercial software.

15. (a) List out the usage of www and web page.

    Or

    (b) How does modem use connected the Internet?

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).
Each answer should not exceed 600 words.

16. (a) Define computer program. How to develop a computer program?

Or

(b) Explain flowchart and its importance, symbols, guidelines, structures and limitations in detail.

17. (a) List out and explain the concepts available in object oriented programming.

Or

(b) Write short note on the following :

(i) Program testing and debugging

(ii) Characteristics of good programming.

18. (a) What are the different generations available in computer? Explain each one of them.

Or

(b) What is programming language? Explain the evolution of programming language in detail.

19. (a) Define software. Describe the relationship between hardware and software.

Or

(b) What are the different types of software categories available? Explain each one of them.

20. (a) Discuss in detail the E-mail.

Or

(b) Describe internet and virus in detail.

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