

Code No. : 10517 E      Sub. Code : CNCS 32/  
CNSE 32

U.G. (CBCS) DEGREE EXAMINATION,  
APRIL, 2024

Third Semester

Computer Science/ Software Engineering  
Non Major Elective — BASIC PROGRAMMING  
DESIGN

(For those who joined in July 2021-2022)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. Step by step procedure to solve the problem is called \_\_\_\_\_
- (a) program                      (b) flow chart  
(c) algorithm                    (d) none

7. Example for hardware \_\_\_\_\_
- (a) CPU                            (b) Keyboard  
(c) Mouse                        (d) all the above

8. \_\_\_\_\_ is a computer software that performs a specific function directly for an end user.
- (a) application software  
(b) system software  
(c) both (a) and (b)  
(d) none

9. \_\_\_\_\_ is an interconnected system of public web page accessible through the internet.
- (a) ISP                              (b) WWW  
(c) Both (a) and (b)          (d) None

10. A \_\_\_\_\_ is a computer program that can copy itself and infect a computer without permission or knowledge of the user.
- (a) Antivirus                      (b) Virus  
(c) Both (a) and (b)          (d) None

2. In a flowchart, the symbol used for start and end is \_\_\_\_\_
- (a) diamond                      (b) oval  
(c) rectangle                    (d) none
3. Bug means \_\_\_\_\_
- (a) error                            (b) code  
(c) both (a) and (b)          (d) none
4. \_\_\_\_\_ programming is a type of programming that generally converts large or complex programs into more manageable and small pieces of code.
- (a) unstructured                (b) structured  
(c) both (a) and (b)          (d) none
5. The components used in first generation computer \_\_\_\_\_
- (a) IC                                (b) Diode  
(c) VLSI                            (d) Vacuum tube
6. Features of good programming language \_\_\_\_\_
- (a) portability                    (b) maintainability  
(c) ease to use                    (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) What are the different symbols used in flow chart?  
Or  
(b) Define flow chart. Give a brief note on its importance and limitations.
12. (a) List out the characteristics of good programming.  
Or  
(b) Differentiate structured versus unstructured programming.
13. (a) Give a brief note on evolution of programming language.  
Or  
(b) Write short note on classification of programming language.
14. (a) Describe the relationship between hardware and software.  
Or  
(b) What do you mean by shareware and proprietary software?

15. (a) List out the usage of website and URL.

Or

(b) How to use antivirus software?

PART C -- (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Discuss in detail about decision table.

Or

(b) How to develop computer program? Explain program development cycle in detail.

17. (a) What do you mean by testing and debugging? Explain testing approaches in detail.

Or

(b) Explain program documentation in detail.

18. (a) List out and explain any eight features of good programming language.

Or

(b) Explain first, second, third, fourth and fifth generation in detail.

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19. (a) Discuss in detail about application software and system software.

Or

(b) Write short note on the following :

(i) Firmware

(ii) Liveware

(iii) Freeware

(iv) Public domain software

(v) Commercial software

20. (a) Describe evolution of internet and search engine in detail.

Or

(b) How to get connected to Internet? Explain.

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