

(6 pages)

Reg. No. :

Code No. : 21005

Sub. Code : GNCS 4 A/
GNSE 4 A

U.G. (CBCS) DEGREE EXAMINATION,
APRIL 2015.

Fourth Semester

Computer Science

Non-Major Elective — BASIC PROGRAMMING
DESIGN

(For those who joined in July 2012 and afterwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. A _____ is a step by step procedure to solve a problem
- (a) commands (b) algorithm
(c) program (d) instruction

2. A _____ is a pictorial representation of a problem
- (a) Flowchart (b) Algorithm
(c) Chart (d) HIPO chart
3. The process of checking error is called
- (a) Testing (b) Debugging
(c) Compiling (d) Linking
4. Which of the following is Object oriented programming language?
- (a) C++ (b) JAVA
(c) Eiffel (d) All of these
5. Now a days we use which language?
- (a) High level (b) Machine
(c) Assembly (d) None of these
6. How many types of computer languages are available?
- (a) 2 (b) 3
(c) 4 (d) 5
7. Which of the following is utility program
- (a) Calculator (b) MS-Word
(c) MS-Excel (d) MS-Powerpoint



8. The major component of computer is
(a) Memory (b) I/O devices
(c) CPU (d) All of the above

9. DOS stands for
(a) Disk Operating System
(b) Device Operating system
(c) Disk Online System
(d) Device Online System

10. _____ is an interface between user and computer hardware
(a) Operating system
(b) Compiler
(c) System software
(d) Utility program

SECTION B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) How to develop program?

Or

- (b) Write an algorithm to find biggest among three numbers

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12. (a) What is the need of program documentation?

Or

- (b) Compare structured programming and object oriented programming.

13. (a) Discuss the features of good programming languages.

Or

- (b) Discuss the evolution of programming languages.

14. (a) Define software. Compare software and hardware.

Or

- (b) Describe public domain software.

15. (a) Define operating system. List its uses.

Or

- (b) Write down the features of Windows XP.

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SECTION C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Write a note on decision table and pseudo code.

Or

- (b) Draw a flowchart to find the sum of N numbers. Also write down the algorithm and pseudocode for it.

17. (a) Explain program testing and debugging techniques.

Or

- (b) Explain various programming paradigms.

18. (a) Discuss the classification of programming languages.

Or

- (b) Discuss the generation of programming languages.

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19. (a) Explain any two categories of software.

Or

- (b) Describe Firmware, Liveware and Freeware.

20. (a) Describe the evolution of operating system.

Or

- (b) Explain the functions of operating systems.

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