

(6 pages)

Reg. No. :

Code No. : 30870

Sub. Code : GNCS 4 A/
GNSE 4 A

U.G. (CBCS) DEGREE EXAMINATION, APRIL 2014.

Fourth Semester

Computer Science

Non Major Elective — BASIC PROGRAMMING
DESIGN

(For those who joined in July 2012 onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. A _____ design notation used for making decision.
(a) Decision table (b) Pseudo code
(c) Flow chart (d) None of these
2. How many major symbols used in flowchart?
(a) 5 (b) 6
(c) 7 (d) 8

3. The fundamental feature of OOP is
(a) Abstraction (b) Encapsulation
(c) Inheritance (d) All of these
4. Which is structured programming language?
(a) Pascal (b) Basic
(c) Cobol (d) C++
5. Which of the programming languages now popularly used?
(a) Procedure oriented
(b) Object oriented
(c) Function oriented
(d) Structured
6. A good programming language should have the characteristic
(a) Platform independent
(b) Easy to under stand
(c) Easy to modify
(d) All of these

Page 2

Code No. : 30870



7. How many types of software are available?

- (a) 2 (b) 3
(c) 4 (d) 5

8. Which of the following is system software?

- (a) Compiler (b) Loader
(c) Linker (d) All of these

9. Which of the following OS follows GUI concept

- (a) DOS (b) Windows
(c) Linux (d) Unix

10. How many functions are done by operating system?

- (a) 4 (b) 5
(c) 6 (d) 7

SECTION B — ($5 \times 5 = 25$ marks)

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

11. (a) What is an flowchart? Discuss its uses.

Or

(b) Write a pseudocode to find biggest among three numbers.

Page 3 Code No. : 30870

12. (a) What is meant by debugging?

Or

(b) State the need of program testing.

13. (a) Compare various programming languages.

Or

(b) State the reason which generation of programming language is better one.

14. (a) Describe about shareware.

Or

(b) What is the relationship between hardware and software?

15. (a) Write short notes on any one of modern operating systems.

Or

(b) What is an operating system? List its types.

Page 4 Code No. : 30870

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SECTION C — (5 × 8 = 40 marks)

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

16. (a) What is program? Explain program development steps with suitable example.

Or

- (b) Draw a flowchart to check whether the given number is perfect or not. Also write down the algorithm for it.

17. (a) Explain various programming paradigms.

Or

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

18. (a) Write a detailed note on Computer languages.

Or

- (b) Discuss the features of good programming language.

19. (a) Write about Liveware, FreeWare and FirmWare.

Or

- (b) Explain the categories of software.

20. (a) Explain memory management in operating system.

Or

- (b) Explain processor management in operating system.

