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Reg. No. : .....

Code No. : 41400 E      Sub. Code : SNCS 3 B

U.G. (CBCS) DEGREE EXAMINATION,  
APRIL 2019.

Third Semester

Computer Science – Non Major Elective

BASIC PROGRAMMING DESIGN

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Flow lines in a flowchart are used to connect
- (a) Two terminals
  - (b) Two connectors
  - (c) Two input/output
  - (d) All of these

2. The diamond – shape symbol in the flowchart signifies.
- (a) Processing
  - (b) Connectors
  - (c) Decision
  - (d) None of these
3. Logical error occurs due to
- (a) Incorrect syntax
  - (b) Incorrect logic
  - (c) Wrong inputs
  - (d) None of these
4. White box testing is also known as
- (a) Glass box testing
  - (b) Functional testing
  - (c) Clear box testing
  - (d) Both (a) and (c)
5. COBOL and BASIC are the example of \_\_\_\_\_ generation languages.
- (a) First
  - (b) Second
  - (c) Third
  - (d) Fourth

6. The language that truly implements all the object-oriented features is  
(a) C                              (b) PROLOG  
(c) PASCAL                        (d) JAVA
7. The assembly language program is translated into machine code by a separate program called  
(a) Assembler  
(b) Interpreter  
(c) Compiler  
(d) Disassembler
8. Linux operating system is a type of \_\_\_\_\_ software.  
(a) Shareware  
(b) Freeware  
(c) Commercial  
(d) Proprietary
9. What would you use for immediate, real - time communication with a friend?  
(a) E-mail  
(b) IRC  
(c) Usenet  
(d) A mailing list

10. Which of the following is a search engine?  
(a) Macromedia flash  
(b) Google  
(c) Netscape  
(d) Librarians' index to the internet

PART B — (5 × 5 = 25 marks)

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

11. (a) Define an algorithm. List the properties of a good algorithm.

Or

- (b) What benefits do decision tables offer over flowcharts?

12. (a) Discuss briefly the two types of errors. Explain the various approaches, which should be followed to correct these errors.

Or

- (b) Define procedural programming.

13. (a) Write a short note on the following.

(i) Loader

(ii) Linker

Or

- (b) Briefly describe the classification of programming languages.

14. (a) What do you understand by the term 'software'?

Or

(b) Write short notes on the following :

(i) Freeware

(ii) Shareware

15. (a) Give the full forms of the following :

(i) HTTP

(ii) TCP/IP

(iii) VOIP

(iv) SMTP

(v) POP

Or

(b) What is telnet? How does it work?

PART C — (5 × 8 = 40 marks)

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

16. (a) Discuss the structure of a flowchart? What guidelines should be followed while making a flowchart?

Or

(b) Explain program development cycle with the help of a block diagram.

17. (a) Explain the characteristics of a good program.

Or

(b) Discuss the various aspects of object-oriented programming paradigm.

18. (a) Explain in detail any six popular high-level language.

Or

(b) Explain the features of a good programming languages.

19. (a) What is a firmware? What is its importance in a computer system?

Or

(b) Explain the working of a linker and a loader in the execution of a software program.

20. (a) What is e-mail? Explain its working with the help of an example.

Or

(b) What are search engines? How do they help the users in using information on the Internet?