

COLLGE OF ENGINEERING ROORKEE

Department of Computer Science and Engineering PRINCIPLES OF PROGRAMMING LANGUAGES (BOCS-505A)

Session 2021-22

QUESTION BANK

1. What is the only language that a computer understands directly? CO1
 - a. English, as spoken in Boston, Mass.
 - b. BASIC, the Beginners' All-purpose Symbolic Instruction Code
 - c. Machine language, different for every type of CPU

2. What are the three main types of computer programming languages? CO1
 - a. machine language, assembly language, high level language
 - b. imperative language, functional language, declarative language
 - c. COBOL Fortran-77, C++

3. From the point of view of the programmer what are the major advantages of using a high-level language rather than internal machine code or assembler language? CO1
 - (a) Program portability (b) Easy development
 - (c) Efficiency

4. Which of the following is the functionality of 'Data Abstraction'? CO4
 - (a) Reduce Complexity (b) Binds together code and data (c) Parallelism
 - (d) None of the mentioned

5. Which of the following mechanisms is/are provided by Object Oriented Language to Implement Object Oriented Model? CO4
 - a. Encapsulation
 - b. Polymorphism
 - c. Inheritance
 - d. All of the mentioned

6. Which of these is the functionality of 'Encapsulation'? CO4
- a. Binds together code and data
 - b. Using single interface for general class of actions.
 - c. Reduce Complexity
 - d. All of the mentioned
7. What is 'Basis of Encapsulation'? CO4
- a. object
 - b. method
 - c. class
 - d. all of the mentioned
8. How will a class protect the code inside it? CO4
- (a) Using Access specifiers
 - (b) Abstraction
 - (c) Use of Inheritance
 - (d) All of the mentioned
9. In repeat-until loop 'UNTIL Option>0 and Option<8 AND INT(Option) = Option', INT function is classified as CO5
- a. option
 - b. function
 - c. format option
 - d. format function
10. A program which interprets each line of high level program at time of execution is called CO1
- (a) instructor
 - (b) interpreter
 - (c) translator
 - (d) executor
11. Which of the following supports the concept of hierarchical classification? CO4
- (a) Polymorphism
 - (b) Encapsulation
 - (c) Abstraction
 - (d) Inheritance
12. Which Keyword from the following is used to inherit properties from one class into another? CO4
- a. extends
 - b. native

13. Loop statement which is repeated to some given number of times is classified as CO5
- c. (a) FOR loop (b) GO loop
- d. (c) REPEAT loop (d) GO REPEAT loop
14. Which of the following concept is often expressed by the phrase, 'One interface, multiple methods'? CO4
- (a) Abstraction (b) Polymorphism (c) Inheritance
15. In high-level language Pascal, area is calculated as CO5
- (a) $100 \text{ Area} = \text{Width} * \text{Length}$ (b) $100 \text{ Area} = \text{Width} * \text{Length}$ (c) $\text{Area} = \text{Width} * \text{Length};$ (d) $\text{length } 100: \text{area} * 20 \text{width}$
16. An assembler translates CO1
- a. machine code into assembly code (b) assembly code into machine code
- (c) processing time into manual time (d) routine into subroutine
17. Name given by a programmer to some data is classified as CO2
- (a) identifier (b) identification (c) exponent (d) mantissa
18. When variable used in program is whole number, variable is stored as CO2
- (a) fixed string (b) integers (c) negative whole numbers (d) positive whole numbers
19. Programming language which is used for scientific purposes and work is to be done in batches is CO1
- (a) PASCAL (b) FORTRAN (c) LOGO (d) COMAL
20. To made program more easier to understand, programmers can CO5
- (a) add comments to it (b) declare variable names
- (c) use secure data (d) both a and b
21. In line '300 IF NAMEINR="****" THEN Average= Total Mark/N' of BASICprogram, " is classified as CO5

- (a) rational string (b) string variable (c) irrational string (d) string constant
22. Group of all special characters such as digits and letters are classified as CO2
- (a) strings (b) negative numbers (c) odd numbers (d) even numbers
23. The memory allocation scheme subjected to "external" fragmentation is CO3
- a) Segmentation b) Swapping c) Paging
24. Which is the simplest form of allocation, which is done during translation and remains fixed throughout the execution. CO3
- a) Stack Storage Management b) Static Storage Management c) Heap Storage Management
25. Also known as code segment made with the help of constant and executable code CO3
- a) Static Part b) Dynamic Part c) Heap
26. Major elements that requires Storage: CO3
- a) Code Segment b) Reference Count c) Dangling Reference
- d) System Run time Program e) both a and d

Question No.	Answer Key
1	c
2	a
3	b
4	a
5	d
6	a
7	a
8	a
9	c
10	c
11	d
12	a
13	a
14	b
15	c
16	b
17	a
18	b
19	a
20	a
21	d
22	a
23	a
24	b
25	a
26	e