



## Computer Science Objective-Model Paper

### Intermediate Part – II (12<sup>th</sup> Class) Examination

**Total marks: 43**

**Time Allowed: 20 minutes**

1. Select the correct option:

1. C language developed by
  - a. Peter Norton
  - b. Floyd
  - c. Catherine Ricardo
  - d. Dennis Ritchie

2. printf() function prints:
  - a. character
  - b. string
  - c. any number
  - d. all of them

3. The library function sqrt( ), return the square root of  $x = 1024$ 
  - a. 512
  - b. 256
  - c. 32
  - d. 64

4. Which programming structure makes a comparison?
  - a. Sequence
  - b. Relation
  - c. Repetition
  - d. Decision

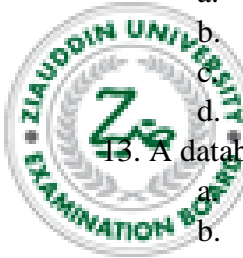
5. Which is used to associate entities with one another?
  - a. Entity
  - b. Relationship
  - c. Identifier
  - d. Attributes

6. Go to statement cannot work properly without
  - a. label
  - b. operator
  - c. none
  - d. condition

7. A report may be based on a :
  - a. Both a and b
  - b. Table
  - c. None
  - d. Query



8. Which is needed to add, edit or delete records from a table?
- Datasheet view
  - Design view
  - Edit view
  - Record view
9. A data base consists of various components called:
- Tools
  - Objects
  - Entities
  - Properties
10. A record is a complete set of \_\_\_\_\_ field
- distinct
  - designed
  - all of them
  - related
11. The type of files from functional point of view include:
- None of these
  - a and b
  - Data file
  - Program file
12. Anything about which you store information in the database is known as:
- Inherent
  - File
  - Entity
  - Relation
13. A database containing all students in a class would store basic data of students in:
- Cell
  - File
  - Record
  - Field
14. Which of the following may be a temporary file?
- Transaction file
  - Back up file
  - Master file
  - None
15. C is \_\_\_\_\_ level language
- high
  - medium
  - a and b
  - low
16. Which of the following is an example of a database?
- Accounts & inventory system
  - Library management system
  - College management system
  - All



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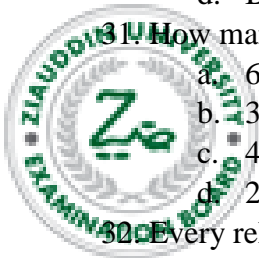
17. SQL can be used to:
- Modify database data only
  - All
  - Query database only
  - Create database structures only
18. Which of the following activities involved in data processing?
- All
  - Managing output
  - Data capturing
  - Data manipulation
19. The high-level languages are \_\_\_\_\_
- expensive
  - machine dependent
  - more easier to learn
  - not machine dependent
20. The types of files from usage point of view include
- back up file
  - transaction file
  - master file
  - all of them
21. An example of a query is:
- Search for a specific record
  - Both a and c are correct
  - Selection of all records that match a set of criteria
  - Importing of a spreadsheet file into the database
22. Each set of related items in a table is called:
- Record
  - Field
  - Query
  - Table
23. The loop statements in a language are
- 2
  - 4
  - 5
  - 3
24. They include <conio.h> is not begin without a sign of
- \$
  - !=
  - #
  - @
25. A character constant is a single character, enclosed in
- double quotation mark
  - single quotation mark
  - Left and right braces
  - left and right parenthesis
26. Comments or remarks can be placed anywhere within a program as long as they are placed within Delimiters.
- by braces and asterisks { \* comments \* }
  - by asterisks \* comments \*



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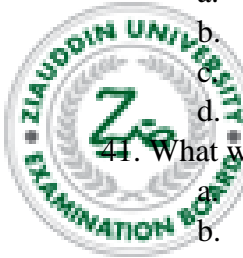
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- c. by parenthesis and asterisks ( \* comments \* )
  - d. by slashes and asterisks /\* comments \*/
27. The operator that is used in decision making is
- a. increment operator
  - b. condition operator
  - c. decrement operator
  - d. none
28. Which object of database is used to retrieve data from database?
- a. Forms
  - b. Queries
  - c. Reports
  - d. Tables
29. The entity integrity rule states that:
- a. Primary key must have only one attribute
  - b. None
  - c. No primary key attribute can be null
  - d. Each entity must have a primary key
30. Another term for a conditional operator is:
- a. Ternary
  - b. Byte
  - c. Iteration
  - d. Binary
31. How many types of loop structure are available in C?
- a. 6
  - b. 3
  - c. 4
  - d. 2
32. Every relation should have :
- a. Candidate key
  - b. Mutually exclusiveness
  - c. Secondary key
  - d. Primary key
33. \_\_\_\_\_ is a constraint on primary values that states that no attribute of a primary key should contain nulls?
- a. acronyms
  - b. referential integrity
  - c. normalization
  - d. entity integrity
34. Which are basic data distribution strategies?
- a. Centralized
  - b. Partitioned
  - c. Replication
  - d. All
35. \_\_\_\_\_ is the process of converting complex data structures into simple and stable data structures??
- a. mutually exclusive data
  - b. normalization
  - c. homonyms
  - d. database integrity



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36. Which form of dependency is removed in 3NF?
- Non-functional
  - Transitive
  - Associative
  - Functional
37. Which instructions are correct to declare the types of variables example.
- `int k; float m; char n;`
  - `int integer; h:float; s char;`
  - `int hint; a float; m character;`
  - `int t; float c; chr h;`
38. Every statement in C/C++ program should end with
- full stop (.)
  - Comma (,)
  - Semicolon (;)
  - colon (:)
39. Which one is escape sequence?
- “\n”
  - “\t”
  - “ %f ”
  - i++
40. The `gets()` and `puts()` functions offer simple alternatives to use of
- `scanf()` and `printf()`
  - `sqrt()` and `pow(a,n)`
  - `abs()` and `ceil()`
  - `exp()`, `toascii()`
41. What will be the output of this solving  $4 \% 7$
- (0) Zero
  - (1) One
  - (4) four
  - (5) Five.
42. These operators are referred to as logical
- `<=`, `>=`
  - `&&`, `||`
  - `+=`, `=`
  - `/`, `%`
43. A relational operator (`>=`)
- combine values
  - distinguish different type of variables
  - Compare values
  - distribute values



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## Computer Science Subjective-Model Paper

### Intermediate Part – II (12<sup>th</sup> Class) Examination

Total marks: 24

Time: 3:00 hours

## SECTION I

2. Answer any eight (08) parts from the followings:

08×3=24

- i) What is an IDE? Which two short-keys are used to compile the program?
- ii) Define include and header files.
- iii) Define VB applications can be viewed in three distinct states?
- iv) State in few lines of event-driven programming?
- v) Write a program in VB that generates odd-numbers from 1 to 19?
- vi) What are the basic data types of VB?
- vii) The AddItem and RemoveItem, where are these methods used to manipulate?
- viii) Define If..Then...Else Statement.
- ix) Determine which of the following are valid or invalid identifier, integer constant, character constant, float (real), constant, string and separate them. If invalid give reason?
  - a. **record1**
  - b. **\$tax**
  - c. **name and address**
  - d. **27,822**
  - e. **0.576**
  - f. **1527**
  - g. **2e-8**
  - h. **1,232.5**
  - i. **5.234**
  - j. **„ a “**
  - k. **“Pak”**
- x) What is the difference between Escape sequences and format specifiers?
- xi) Write a Program in „C“ language to use all arithmetic assignment operators.
- xii) Name the five basic data types of C-language? Write typical memory requirements and data types range?

## SECTION II

4. Answer anytwo (02) parts from the followings:

06×3=18

- i) Write the few names of properties and methods that are commonly applying to most objects?
- ii) Write VB code, the output should be „Pakistan Zindabad“ displayed on the PictureBox and operated by pressing Command Button?
- iii) What are the differences between GotFocus and LostFocus events? Give any one SetFocus example?
- iv) What are programming languages? Explain its **errors** types?
- v) How many types are **Loops** in C-programming language? Show **syntax** of each loop?
- vi) Write a „C“ program to generate the following shape?

1. 666666
2. 55555
3. 4444
4. 333
5. 22
6. 1



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vii) Write C Program to arrange any ten numbers in **ascending order** by using an array.

viii) Convert the following program segment of if-else statement into **Switch –**

**Case** Statement.

```
Scanf("%d",&condition);
if(condition==1) printf(" Red colour");
else if(condition==2) printf(" Black Colour");
else if(condition==3) printf(" White Colour");
else printf(" No Colour")
```

# **Computer Science Subjective-Model Paper**

## **Intermediate Part – II (12<sup>th</sup> Class) Examination**

**Total marks: 15**

**Time: 1:30 hours**

### **(Practical Part)**

**Note: Attempt any three questions from the followings.**

**05x3=15**

- i) Draw a class “BASE” and inherit a class ‘DRIVE CLASS’ with it, define object of drive class and take input and show data through that object.
- ii) Draw ‘BASE’ and ‘DRIVE’ classes and show concept of overloading and overriding.
- iii) Write a program to display the address and the value of a variable using pointer
- iv) Write a program that send address of two variables as arguments to a function in pointers and double their values in function using pointers.
- v) Develop a program to write and read a text file.



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