

Roll No. of Candidate : \_\_\_\_\_

**COMPUTER SCIENCE** Intermediate Part-II, Class 12<sup>th</sup> (1<sup>st</sup> A 424- IV) Group: I Paper: II

**Time: 20 Minutes**

**OBJECTIVE** ..... Code: 8837 GUTJ-1-24

**Marks: 15**

**Note:** You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

**MS-ACCESS**

1. 1. An entity related to itself in an ERD model refers to relationship :  
(A) recursive (B) one to many (C) many to many (D) one to one
2. The graphical query tool is known as :  
(A) query grid (B) design grid (C) query form (D) design form
3. A virtual table that is constructed from other tables is called :  
(A) table (B) tuple (C) view (D) relation
4. The data that causes inconsistency lacks :  
(A) good data (B) data integrity (C) data redundancy (D) data anomaly
5. Referential integrity is applied on :  
(A) primary key (B) composite key (C) sort key (D) foreign key
6. Each separate piece of information stored in a record is called :  
(A) form (B) field (C) table (D) query

**C-LANGUAGE**

7. If  $x = 2$ ,  $y = 3$ , the expression  $(x > y) ? (x + y) : (x * y)$ ; will display output as :  
(A) 5 (B) 10 (C) 6 (D) 1
8. The keyword "break" cannot be used within :  
(A) do while (B) if - else (C) for (D) while
9. The programmer usually prepares the source code using :  
(A) compiler (B) text editor (C) debugger (D) linker
10. Memory is allocated to a local variable at the time of its :  
(A) declaration (B) destruction (C) definition (D) first reference
11. The character conversion may occur in :  
(A) text stream (B) binary stream (C) input stream (D) output stream
12. Escape Sequence used to insert a Tab in C-Language is :  
(A) \a (B) \b (C) \t (D) \n
13. Format specifier %5.3 for the value 4.1257, will produce the output :  
(A) 4.125 (B) 4.126 (C) □4.126 (D) □4.125
14. Conditional operator is an alternative of :  
(A) if (B) if - else (C) switch (D) for
15. The data type in C-language that can handle fractional values, is called :  
(A) long (B) char (C) float (D) int

**OR**

**VISUAL BASIC**

7. Data can be entered in a control when it has :  
(A) tab order (B) mask (C) focus (D) control
8. In Visual Basic, a form is another name for :  
(A) object (B) window (C) property (D) label
9. Which of the following is not a control?  
(A) textbox (B) close button (C) command button (D) option button
10. The property that changes text color is :  
(A) backcolor (B) textcolor (C) forecolor (D) fontcolor
11. Visual Basic is a product of :  
(A) Microsoft (B) IBM (C) Hewlet (D) Sun System
12. A control that provides an identifiable grouping for control is :  
(A) textbox (B) button (C) label (D) listbox
13. The output of compiler is :  
(A) source code (B) object code (C) linked code (D) program
14. A predefined screen that can be used as one of the building blocks of an application :  
(A) object (B) window (C) property (D) label
15. The code that is used in a sub procedure to stop execution of a program is :  
(A) exit (B) halt (C) end (D) end sub

Note: Section I is compulsory.

SECTION - IMS-ACCESS

12

**2. Write short answers to any SIX questions:**

- |  |   |
|--|---|
| i. Write down two advantages of database systems.  | vi. What is meant by "atomic values"?           |
| ii. In which condition, you need to create composite key in a relation? Justify your answer. | vii. What is database wizard?                   |
| iii. What is foreign key?  | viii. Why are we using Input Masks?             |
| iv. Differentiate between relation and relationship.   | ix. Differentiate between ListBox and ComboBox. |
| v. What is the main purpose of "Partitioned" data distribution strategy?                     |   |

C-LANGUAGE

12

**3. Write short answers to any SIX questions:**

- |   |  |
|---|--|
| i. Define variable initialization.  | v. What is meant by & in scanf function?   |
| ii. Write down the following statement in C-language.<br>"Age is between 18 years and 50 years" | vi. Find any two errors.<br>void main ();<br>{int a = 10;<br>printf("%s", b);<br>}   |
| iii. Find any two errors<br>integer x, y,<br>z = x + y;<br>printf("z = %d", z);                 | vii. Write the output of the following code<br>printf("\n Amir \t\t 78 \t\t 425");<br>printf("\n Tahir \t\t 23 \t\t 388"); |
| iv. Find output<br>int a = 5, b = 10;<br>int z = a + b * 2;<br>printf("Result = %d", z);        | viii. Describe the purpose of '\0' in strings.   |
|   | ix. What is a stream?  |

OR

VISUAL BASIC

12

**3. Write short answers to any SIX questions:**

- |   |  |
|---|--|
| i. Define a method in VB.                             | vi. How is a picture removed at runtime? |
| ii. What is the main advantage of using Visual Basic? | vii. What is ListIndex property?         |
| iii. Describe form window.                            | viii. Define WordWrap in VB.             |
| iv. Differentiate between menubar and toolbar.        | ix. What is FileListBox control?         |
| v. Write down any two forms events.                   |  |

C-LANGUAGE

12

**4. Write short answers to any SIX questions:**

- |   |  |
|---|--|
| i. Why break statement is used in a switch ( ) structure?   | v. Predict the output of the following code segment<br>int n;<br>for (n = 10; n >= 1; n--)<br>printf("%d", n); |
| ii. Predict the output of the following code segment<br>int a = 10, b = 5;<br>if (a > b)<br>printf("PUNJAB");<br>else<br>printf("KPK"); | vi. Define function.   |
| iii. Define nested loop. How does it work?  | vii. How is a function activated?  |
| iv. Convert the following code into while loop:<br>int i;<br>for (i = 1; i <= 5; i++)<br>{<br>printf("In Pakistan");<br>}               | viii. Write down the use of formal parameters.   |
|   | ix. Write down two importances of functions?   |

(Turn Over)

**VISUAL BASIC**

**4. Write short answers to any SIX questions:**

- |   |   |
|---|---|
| i. Define currency data type in VB.             | vi. Trace the output:<br>if(10 MOD 3 = 0) Then<br>print ("YES")<br>else<br>print ("NO")<br>End if |
| ii. Describe option explicit declaration in VB. | vii. How an AND operator is used in VB statement?   |
| iii. Write down the syntax of input box.        | viii. What is sentinel value?   |
| iv. How select.....Case help in coding?         | ix. Write down the syntax of For.....Next loop.   |
| v. What is default property of command button?  |   |

**SECTION - II**  
**MS-ACCESS**

**Note: Attempt any ONE question.**

5. Briefly describe four major components of database systems. (8)
6. Explain different types of Queries? (8)

**SECTION - III**

**Note: Attempt any TWO questions (either from "C-Language" or from "Visual Basic"):**

**C - LANGUAGE**

7. What are errors? Discuss different types of errors which may occur in C-Language program. (8)
8. Write a program in C-language that inputs a year and finds whether it is a leap year or not, using if-else structure. (8)
9. Write a program that displays first five odd numbers and their average using while loop. (8)

**OR**

**VISUAL BASIC**

7. Discuss any eight form objects in VB. (8)
8. Write a program in Visual Basic that inputs a year and finds whether it is a leap year or not, using If...Then...Else structure. (8)
9. Write a program in VB that displays first five odd numbers and their average using While Wend loop. (8)