Serial No. Of the Answer Book 203

Roll No. (in figure)_____

(in Words)_____

Superintendent Seal & Signature

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COMPUTER SCIENCE - II

Total Time: 3 Hours **Max: Marks: 75**

Note: There are THREE Sections of this Paper i.e. A,B and C, attempt each according to the given instructions.

Time: 20 Minutes SECTION-A **Marks: 15**

Note: Attempt all parts of Section – A. Section –A must be return to the superintendent after 20 minutes even if you have not attempted any question. Overwriting/ defacing/Cutting etc is prohibited in Section-A and no credit will be given to such answer.

I. **Write the correct option i.e. A/B/C/D in the empty boxes.**

i. Data about data is called _____.
(A) Meta date (B) Information (C) Record (D) None of these

ii. _____means accuracy and consistency of date contained in a database.
(A) Data independence (B) Security (C) Date sharing (D) Data ~~category~~ Integrity

iii. Tuples are _____ in RDMS.
(A) Attributes (B) Fields (C) Rows (D) None of these

iv. Employee manages employee is _____is relationship between instances of entity type employee.
(A) Unary (B) Binary (C) Terrary (D) None of these

v. _____is the example of one to many relationships.
(A) Driver and automobile (B) Ward and Patient
(C) Student and course (D) All of these

vi. _____ uniquely identify a record.
(A) Foreign key (B) Secondary key (C) Primary key (D) All of these

vii. _____is the example of RDBMS..
(A) MS.-access (B) MS-excel (C) MS (D) Paint brush

viii. The translater of C language is called _____.
(A) Compiler (B) Interpreter (C) Assembler (D) All of these

ix. _____ a C program.
(A) { (B) } (C) ; (D) ()

x. The exmple of integer constant is _____.
(A) '42' (B) "12" (C) 124 (D) 12.7

xi. For scanf ( )_____ header file must be included in a C program.
(A) Studio.h (B) Conio.h (C) math.h (D) string.h

xii. _____ symbol is called arithmetic sperator.
(A) == (B) + (C) < (D) &&

xiii. There are _____types of loop statements in C language..
(A) 2 (B) 3 (C) 4 (D) None of these

xiv. For finding square root _____ on is used in C..
(A) Sqr ( ) (B) Sqrt ( ) (C) Squaroot ( ) (D) None of these

xv. _____ function must be used in every C program
(A) Main ( ) (B) gets ( ) (C) Pow ( ) (D) Stract ( )

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COMPUTER SCIENCE - II

Note: Time allowed for section B and C is 2 hours and 40 minutes.

SECTION "B"

Marks: 36

II. Attempt any TEN Parts out of the following. Each Part carries equal marks.

i. What are the main characteristics of a DBMS?

ii. Define strong entity and weak entity.

iii. Differentiate between simple and composite attributes.

iv. Differentiate between logical and physical record.

v. Differentiate between entity integrity constraint and Domain integrity constraint.

vi. Define reserve words and write names of any 3 reserve words used in C.

vii. Write a program which will find area of a circle having the formula $A = \pi r^2$

viii. Write names and order of arithmetic operators used in C.

ix. Define if statement with the help of an example.

x. Explain for loop with the help of an example.

xi. Define function and explain its types.

xii. Write a function that calculates the square of a number entered from the key board.

SECTION "C"

Marks: 24

Note: Attempt any THREE questions of the following. Each question carries equal Marks.

III. (a) Explain association and explain its types.
(b) Define key and explain its types

IV. What is normalization and why it is applied? Explain Ist and 2nd normal form with the help of examples.

V. (a) Differentiate between variable and constant and write rules for naming variables.

(b) Write a program that will find the sum, difference, product and quotient of any two numbers.

VI. Define loop? Write syntax of for, while and do while loops