

2011



Roll No.

Answer Sheet No. \_\_\_\_\_

Sig. of Candidate. \_\_\_\_\_

Sig. of Invigilator. \_\_\_\_\_

## COMPUTER SCIENCE HSSC-II SECTION - A (Marks 15)

**Time allowed: 20 Minutes**

**NOTE:-** Section-A is compulsory . All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

**Q. 1** Circle the correct option i.e. A / B / C / D. Each part carries one mark.

- (i) Which key combination is used to RUN a program?  
A. Alt+F9      B. Ctrl+F9      C. Ctrl+S      D. Alt + F5
- (ii) The instructions that are given to the compiler before the beginning of the actual program are \_\_\_\_\_  
A. C statements      B. Linking instructions  
C. Preprocessor Directives      D. C instructions
- (iii) After evaluation of expression 5%2 the value is equal to \_\_\_\_\_  
A. 0      B. 1      C. 2      D. 4
- (iv) Arithmetic operations cannot be performed on \_\_\_\_\_  
A. Integer constant      B. Numeric constant  
C. String constant      D. Floating point constant
- (v) The first character of a variable name cannot be \_\_\_\_\_  
A. Digit      B. Under Score      C. Alphabets      D. Alphabetic character
- (vi) Which of the following loops is always executed at least once?  
A. For loop      B. While loop      C. Do-While loop      D. Counter loop
- (vii) Which of the following functions is used to write strings to a file?  
A. f print f ( )      B. Puts ( )      C. f puts ( )      D. print f
- (viii) Which format spicifier is used to assign signed decimal integer?  
A. %c      B. %s      C. %f      D. %d
- (ix) The switch statement is very similar to the \_\_\_\_\_.  
A. if-statement      B. Conditional operator  
C. if-else statement      D. else-if statements
- (x) All the information about one person or item is held in a \_\_\_\_\_.  
A. Field      B. File      C. Record      D. Database
- (xi) Which of the following objects is used to gather the selected information from a database?  
A. Form      B. Table      C. Query      D. Reports
- (xii) Which of the following Fields data types is **NOT** available is Access?  
A. Memo      B. Name      C. Currency      D. Text
- (xiii) Which of the following is a diagrammatic way of representing the relationship between the entities in a database?  
A. DFD      B. Flowchart      C. DBMS      D. ERD
- (xiv) Each entity in a database must have a unique key field known as the \_\_\_\_\_.  
A. Candidate key      B. Index key      C. Primary key      D. Secondary key
- (xv) The most common type of database management system available is \_\_\_\_\_  
A. MS.Excel      B. Relational database  
C. MS.Word      D. Power Point

**For Examiner's use only:**

**Total Marks:** 15

**Marks Obtained:**

2011



# COMPUTER SCIENCE HSSC-II

**Time allowed: 2:40 Hours**

**Total Marks Sections B and C: 60**

**NOTE:-** Answer any thirteen parts from Section 'B' and any three questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

## SECTION – B (Marks 39)

**Q. 2 Attempt any THIRTEEN parts. The answer to each part should not exceed 5 to 6 lines. (13 x 3 = 39)**

- (i) What do the following modes perform in C language: 03  
       "r+"                      "a"                      "r"
- (ii) Write down any three advantages of High level languages. 03
- (iii) Define Compiling. 03
- (iv) Differentiate between Preprocessor directives and Header files? 03
- (v) Distinguish between the source code and object code. 03
- (vi) Describe the rules for writing names of Variables. 03
- (vii) Which of the following are valid C variables: 03  
       a. age:                      b. int                      c. –on-off  
       d. This-1                  e. Two way                  f. a=cx
- (viii) Distinguish between if-else and Switch statements. 03
- (ix) a. Define Escape sequence. 01  
       b. What will be the output of the following statement:  

```
printf("I\nLove\nPakis tan");
```

02
- (x) a. What are Logical operators? 01  
       b. Find the values of:  
            $(x < y) \& \& (z == 5)$  where  $x=10, y=15, z=5$   
            $(x > y) | (z == 5)$  where  $x=0, y=15, z=5$  02
- (xi) Write a program that demonstrates the structure of function. 03
- (xii) State three ways of reading data from and writing data to files, along with standard functions as an example. 03
- (xiii) Write briefly about the do-while loop. 03
- (xiv) State three types of relationship between two attributes with the help of one example each. 03
- (xv) Write a program that prints squares of all numbers from 1 to 10. 03
- (xvi) a. Define Query. 01  
       b. Write a query to delete all the record from the table. 02
- (xvii) **STUDENT** (Student ID, student name, group). What is entity name, primary key and attributes in the above line. 1+1+1

## SECTION – C (Marks 21)

**Note:- Attempt any THREE questions. All questions carry equal marks. (3 x 7 = 21)**

- Q. 3** Write a program that passes an argument and prints its table but does not return any value? 07
- Q. 4** By using Switch statement write a program that determines whether a character entered was a vowel or a consonant. 07
- Q. 5** a. State three basic control structures with the help of examples. 02  
       b. Write a program that converts kilograms to pounds using while loop. Use Zero signals the end of input. 05
- Q. 6** a. Explain the problems organizations faced in traditional file approach method in processing information. 04  
       b. Define DBA. What are the tasks performed by DBA? 01+02