Version No.			

ROLL NUMBER						

Answer Sheet No._____

Sign. of Candidate _____

Sign. of Invigilator _____

COMPUTER SCIENCE HSSC–I (2nd Set)

SECTION – A (Marks 15)

Time allowed: 20 Minutes

Section – A is compulsory. All parts of this section are to be answered on this page and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. **Do not use lead pencil.**

Q.1 Fill the relevant bubble for each part. Each part carries one mark.

(1) Which pointing device is popular with ATM machines?

A. Touch Pad ◯ B. Trackball ◯

C. Touch Screen ◯ D. Light Pen ◯

(2) Which device reads the information of owner from Credit Card?

A. Bar Code Reader ◯ B. Magnetic Card Reader ◯

C. Optical Scanner ◯ D. Handheld Scanner ◯

(3) What is the full form of WAP?

A. Wireless Access Place ◯ B. Wireless Access Protocol ◯

C. Wireless Access Point ◯ D. Wireless Access Portion ◯

(4) Which one of the following Orbits is at the distance of 22,000 miles from the surface of the Earth?

A. GEO ◯ B. MEO ◯

C. LEO ◯ D. HEO ◯

(5) Which one of the following is an example of One-to-Many relationship?

A. Class → Teacher ◯

B. College Campus → Teacher ◯

C. College→ Principal ◯

D. Country→ Capital ◯

(6) Which device use spindle to hold the disk(s)?

A. Compact Disk ◯ B. Floppy Disk ◯

C. Hard Disk ◯ D. DRAM ◯

(7) Which device have instructions to load operating system from hard disk to RAM?

A. RAM ◯ B. Cache ◯

C. ROM ◯ D. Register ◯

(8) Which theoretical foundation of a data base determines that how data is stored, organized, and manipulated?

A. Database Model ◯ B. Database Structure ◯
C. Database Design ◯ D. Database Architecture ◯

(9) Which component generates a signal to execute an instruction?

A. ALU ◯ B. Decoder ◯
C. Cache ◯ D. Timing & Control Logic ◯

(10) Which one of the following is uni-directional bus?

A. Data ◯ B. Network ◯
C. Address ◯ D. System ◯

(11) Which one of the following is Data Transfer Instruction?

A. STORE ◯ B. LOOP ◯
C. SHIFT ◯ D. JMP ◯

(12) For which purpose Class C is used?

A. Small size network ◯ B. Multicasting ◯
C. Large size network ◯ D. Broadcasting ◯

(13) Which one of the following Network devices is used to forward data packets across similar or different networks?

A. Server ◯ B. Router ◯
C. Modem ◯ D. Gateway ◯

(14) Which datatype is most suitable for storing address of Employee?

A. Short Text ◯ B. Long Text ◯
C. Yes/No ◯ D. Date/Time ◯

(15) Which one of the following port is not replaced by USB port?

A. Serial ◯ B. Firewire ◯
C. Parallel ◯ D. PS/2 ◯

Federal Board HSSC-I Examination
Computer Science Model Question Paper
(Curriculum 2009)

Time allowed: 2.40 hours Total Marks: 60

Note: Answer any twelve parts from Section 'B' and attempt any three questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks 36)

Q.2 Attempt any **TWELVE** parts from the following. All parts carry equal marks. (12×3=36)

i. Why **LCD** is better than **CRT** monitors? Justify your answer with three reasons.

ii. Write down one example of each Productivity Software, Open-Source Software and Device Driver.

iii. Which pointing device is available in laptop? How it differs from a mouse? Give two reasons.

iv. What are the two basic components of CPU? Illustrate with diagram.

v. What is Memory Word? How size of Memory word affects the speed of computer?

vi. Write down the purpose of **EPROM** and **EEPROM**.

vii. Which port is **plug and play**? Why is it called plug and play**?** Give two reasons.

viii. Write down the functions of **Memory Address Register** and **Program Counter**? How are they linked?

ix. Complete the following grid according to the criteria given.

Criteria	OSI	TCP/IP
Developed by		
No of Layers		
Model Type		

x. Write down any three differences between **CISC** and **RISC**.

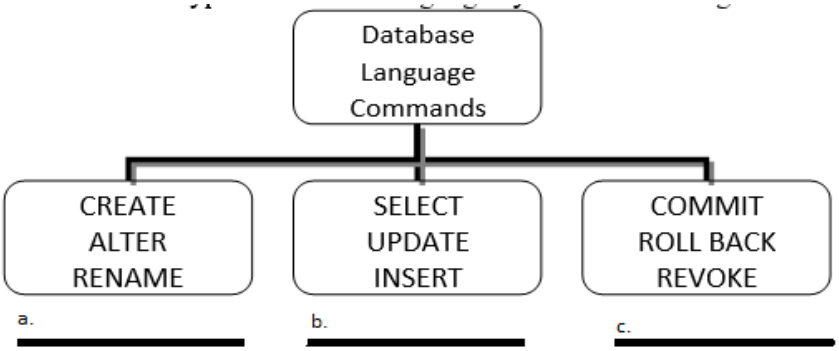
xi. Write down three applications of **Virtual Private Network?**

xii. What are three components required for **Mobile Communication Network**.

xiii. What is **Wireless Network**? Give one advantage and one disadvantage.

xiv. In an organization, an employee assigned a single login and he work under only one department. Draw ER diagram of given scenario.

xv. Determine the type of database language by the commands given of each type:



xvi. Select the suitable datatypes for respective fields.

Book Id	Book Title	Publish Date	Available	Price	Remarks
3625	Network Fundamentals	26-Feb-2018	Yes	800$	Book covers the topics….
3626	Oracle SQL	16-June-2005	No	900$	Book covers the topics….
3627	Introduction to Computer	12-Dec-2011	Yes	745$	Book covers the topics….

SECTION – C (Marks 24)

Note: Attempt any **TWO** questions. All questions carry equal marks. (2 × 12 = 24)

Q.3 a. Describe instructions with its parts. Briefly explain three types of instructions with example. (4)

b. Read the given description carefully and complete the following grid: (4)

1	2	3
Description	**Name of Storage Device**	**Category of Storage: Primary/Secondary**
Volatile memory that is used as cache memory and does not need to be recharged		
Volatile memory that uses laser beam to read/write data and have smaller and very densely packed bumps due to which it has largest storage capacity		
Non-volatile memory that uses electric current to rewrite data and work like flash memory		
Non-volatile memory in which data is accessed sequentially and mostly used for backing purpose		

Q.4 a. Describe the following classification of computers with their applications in daily life:

i. Supercomputer ii. Mainframe Computer

iii. Mobile Computing (2+2+2)

b. Discuss the **Ring** and **Mesh** topologies, with respect to advantages and disadvantages. Illustrate with the help of diagram. (3+3)

Q.5 a. What is Primary Key, Foreign Key, Alternate and Candidate Key? (4)

b. Also identifies above mentioned keys in the following ER-diagram. Mention the cardinality and modality of given entities in the diagram. (4+4)