

**Foundation of Information Technology**  
**Sample Question Paper**  
**(Code : 165)**  
**Class X**  
**TERM-I (2010-11)**

**Time: 3hours**

**M.M.: 80**

**SECTION A**

1. Fill in the blanks: [10]
  - 1.1 Internet is a network of \_\_\_\_\_.
  - 1.2 Primary key is used to \_\_\_\_\_ identify the records in a table.
  - 1.3 In a text type data field, we can put maximum \_\_\_\_\_ characters.
  - 1.4 The address or location of the document on the world wide web is called its \_\_\_\_\_.
  - 1.5 \_\_\_\_\_ allows customers to conduct financial transactions on a secure website.
  - 1.6 Web pages on a site are linked together through a system of \_\_\_\_\_.
  - 1.7 \_\_\_\_\_ is the smallest part of a table in which one data item can be kept.
  - 1.8 \_\_\_\_\_ is a software used to view web pages.
  - 1.9 \_\_\_\_\_ is a collection of related information.
  - 1.10 \_\_\_\_\_ is a field when used as a primary key , numbers each record sequentially.
2. State True and False: [10]
  - 2.1 A Database can have only one table.
  - 2.2 Memo data type allows you to store character type values in the table.
  - 2.3 TCP helps in converting the digital signal to analog signal and vice versa.
  - 2.4 A Primary Key value can be NULL.
  - 2.5 Chat Rooms are actual rooms where chat session takes place.
  - 2.6 IP address is given to every computer for its unique identification.
  - 2.7 If a piece of data is stored in two places in the database, then storage space is wasted and changing the data in one place will not cause data inconsistency.
  - 2.8 Downloading of files means transferring files from host computer to the Internet.
  - 2.9 The Datasheet view displays the data in a table in a tabular format.
  - 2.10 Altavista is used for searching for available Internet connection.

3. Read the following paragraph. Find six network and communication related abbreviations and give their expanded form along with a single line definition of each of them: [10]

RBI is planning to expand its connectivity with all major banks of India. The plan includes providing TCP connectivity through HTTP for easy access points and seeks help from some ISPs to join hands in this venture. Also, there is a plan to setup IIS and SMTP servers. Some banks will go for ADSL line while others will use Leased line connectivity to access these services. RBI is also taking help of IIT professors in this venture.

4. Answer the following Questions: [2 X 8 = 16]

- 4.1. Sharvan Joshi is a student of Political Science and is a keen researcher of Political issues related to various countries and states. He wants to share his research and his own opinion on these issues on day -to-day basis with everyone one World Wide Web. He is also interested in collecting views of others to enhance his research and knowledge related to his area of interest. He belongs to a middle class family and can't afford his own website. Also being a non-technical person he can't create a dynamic website to deal with day-to-day inputs.
- Suggest an easy way for Shravan to achieve the same.
  - Also name two popularly used free services that can help Shravan in this regard.
- 4.2. As life gets busier, it becomes difficult for everyone to keep a track with school & college friends, old colleagues, old neighbours and favourite teachers. It is important to keep in touch with all your near and dear ones. At times, people sitting miles away doing similar kind of activity or solving similar kind of problems can help you to achieve goals faster by sharing their experiences. Similarly people belonging to different socio-economic background can change your perspective and can enhance your understanding of various cultures.
- Suggest the real time tools that are suitable for the above-mentioned activities.
  - What is the generic name used for such tools?
- 4.3. Laleema Chakradhar wants a broadband connection for accessing her mails and staying informed about the latest happenings in the field of Biotechnology. Can you suggest two Internet Service Providers of India to be approached for the same?
- 4.4. Identify domain name(s) and URL(s) from the following list:
- yoga@yoga.com
  - doYogaEveryday.com
  - www.doYogaEveryday.com/old/index.html
  - www.PerformingArts\_schools.org/backlink.htm
  - 192.168.0.1
  - http://cbse.nic.in
- 4.5. Anila works in a Multinational Company and needs to work online from home also. She therefore requires fast Internet connection. Which type of Internet connection in your view would be best suited for her. Apart from browsing on the internet she will be



requiring uploading / downloading of files to / from remote sites. Which protocol will help her to perform this activity?

4.6. Differentiate between container and empty elements of HTML.

4.7. Which of the following is not an example of a database?

- Cross n Knot Game
- Employee Payroll Management
- Numeric Calculator
- Customer Management System

4.8. Identify the errors and write the corrected HTML statements:

- `<BODY BACKGROUND="Red">`
- `<FONT TYPE="Arial">`

5 Do as directed: [12]

5.1 Pronita is a programmer in an institution and is asked to handle the records containing personal information of the teachers teaching in the institution. Suggest five fieldnames, which you think must be present in the table called TeacherInfo. [5]

5.2 Look at the table called "Item" given below and answer the question.

ItemId	Item Name	ItemStock	ItemDOP	Quantity Purchased
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1. Suggest the data types of all the fields [5]

2. Which two fields can act as the Primary Key from the above table? [1]

6 Look at the table structures shown below and do as directed: [6]

6.1 Identify the column (s) out of the given three, which should not be present in each of the following tables : [1 x 3 = 3]

1. **Table 1: Stock**

Item No.	Date Of Birth	Item Quantity
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2. **Table 2: Book**

Admno	Price	Accssn No
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3. **Table 4: Student**

FNo	Design Cat	Phone Number
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6.2 Sanchita is working for a nationalized bank and is in the process of creation a table to store the details of customers of the bank. Find out, which of the following Fields of table Bank can be selected as Primary Key, Candidate Key and Alternate Key. [3]

**Bank**

AccountNo	CustomerName	Dateofbirth	PANNumber	OpeningBalance

**SECTION B**

7 Multiple Choice Questions (Choose most appropriate option) [16]

7.1 IP stands for

- a) Internet Protocol
- b) Intranet Protocol
- c) Internet Provider
- d) Internet Package

7.2 Which of these services will not be provided by a typical Internet service provider (ISP)?

- a) An email address
- b) Modem
- c) A connection to the Internet
- d) Technical help

7.3 HTML is a

- a) Package
- b) Software
- c) Language
- d) None of these

7.4 An IP address is a string of \_\_\_\_\_ numbers separated by periods

- a) 3
- b) 4
- c) 2
- d) 5

7.5 Which of the following statements about search engine is true ?

- a) Search engines discriminate between good and bad sites
- b) Search engines have fixed hours when we can use them
- c) Search engines are waste of time as they do not provide relevant information
- d) Search engine is a program designed to search for information on the web using keywords

- 7.6 Digital information is converted into analog information by the modem at
- a) destination computer
  - b) source computer
  - c) both source and destination computer
  - d) neither source nor destination computer
- 7.7 Google Chrome is a
- a) Web Brower
  - b) News Website
  - c) Graphing Package
  - d) Word Processor
- 7.8 A domain name ending with org. belongs to
- a) An educational institution
  - b) An organization
  - c) A site that is highly organized
  - d) A commercial website
- 7.9 What can you do with the Internet?
- a) Exchange information with friends and colleagues
  - b) Access pictures, sounds, video clips and other media elements
  - c) Find diverse perspective on issues from a global audience
  - d) All of the above
- 7.10 Which of the following sites would you most probably buy books from?
- a) www.yahoomail.com
  - b) www.sun.com
  - c) www.msn.com
  - d) www.amazon.com
- 7.11 Which of these is not a part of URL ?
- a) IP address
  - b) Port Number
  - c) Domain Name
  - d) None of these

- 7.12 Out of the following which one is most appropriate data field in context of employee table if only one of these is required?
- a) Age in years
  - b) Date of Birth
  - c) Age in days
  - d) Age in months
- 7.13 Which is not true for a database file
- a) Each record may contain several fields
  - b) Fields are organized in columns
  - c) Data types have to be declared in advance
  - d) Each field may contain several records
- 7.14 What data type should you choose for a zip code field in a table?
- a) Text
  - b) Number
  - c) Memo
  - d) All of above
- 7.15 Which of the following fields would not make a suitable primary key
- a) A customers account number
  - b) A date field
  - c) An AutoNumber field
  - d) A students admission number
- 7.16 What is the purpose of the description column in Table Design View?
- a) To describe the data that should be entered in each field
  - b) To define the data type applied to each field within the table
  - c) To enter lookup data that the field should refer to.
  - d) None of the above