

COMPUTER SCIENCE (E)
(FOUNDATION OF INFORMATION TECHNOLOGY)
SUBJECT CODE - 34
CLASS-X

General Instruction:

1. The unit specified for each term shall be accessed through **Formative Assessment (FA)** and **Summative Assessments (SA)**

(Formative Assessments are based on on hands of skills, oral, projects, practicals and assignments. **Summative Assessments** will be in the form of a test at the end of the term.)

2. There will be 2 Formative Assessments (FA 1 & FA2) in the first term (TERM I) & 2 Formative Assessments (FA3 & FA4) in the second term (TERM II) will carry 10% WEIGHTAGE.

3. Each of the summative Assessments (SA 1) in the first term (TERM I) & Summative Assessments (SA2) in the second term (TERM II) will carry 30% WEIGHTAGE

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WEIGHTAGE DISTRIBUTION OF FORMATIVE & SUMMATIVE ASSESSMENT

TERM	TYPES OF ASSESSMENT	PERCENTAGE OF WEIGHTAGE IN ACADEMIC SESSION	TERM-WISE WEIGHTAGE	TOTAL
TERM I (50%)	FA1	5%	FA1+FA2=10%	FA1+FA2+
	FA2	5%		
TERM II (50%)	SA1	40%	SA1=40%	FA3+FA4=20%
	FA3	5%	FA3+FA4=10%	SA1+SA2=80%
	FA4	5%		
	SA2	40%	SA 2=40%	20%+80%=100%

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WEIGHTAGE DISTRIBUTION OF FORMATIVE & SUMMATIVE ASSESSMENT (TERM I)

TERM	TYPES OF ASSESSMENT	PERCENTAGE OF WEIGHTAGE IN ACADEMIC SESSION	TERM-WISE WEIGHTAGE	TOTAL
TERM I (50%)	FA1	10%	FA1+FA2=20%	FA1+FA2=20%
	FA2	10%		
	SA1	80%	SA1=80%	20%+80%=100%

WEIGHTAGE DISTRIBUTION OF FORMATIVE & SUMMATIVE ASSESSMENT (TERM II)

TERM	TYPES OF ASSESSMENT	PERCENTAGE OF WEIGHTAGE IN ACADEMIC SESSION	TERM-WISE WEIGHTAGE	TOTAL
TERM II (50%)	FA3	10%	FA3+FA4=20%	FA3+FA4=20%
	FA4	10%		
	SA2	80%	SA2=80%	20%+80%=100%

TERM I (THEORY)

UNIT	CHAPTERS	
UNIT I : Basic of Information Technology	CHAPTER 1: Introduction to the Internet	
	CHAPTER 2: Internet Services	
UNIT II : Information Processing Tools & I T Application	CHAPTER 3: Inserting Images & Creating Tables in HTML 5	
	CHAPTER 4: Links & Frames in HTML 5	
	CHAPTER 5: XML	
	CHAPTER 6: Introduction to JavaScript	

Unit I : Basic of Information Technology

Introduction to the Internet : History of Internet, How the Internet Works, How the Web Works, How to log on to the Internet, Uniform Resource Locator (URL), Internet related Terminology, Hypertext Transfer Protocol (HTTP), Hypertext Markup Language (HTML), Publishing a web Page, Web Address, Network Classes.

Internet Services : Information Retrieval, Electronic Mail (e-mail), Locating sites using Search Engines & finding people on the Internet, Files Transfer Protocol (FTP), Telnet.

Web Services : Chat, Electronic Mail (e-mail), Video Conferencing, E-Learning, E-Banking, E-Shopping, E-Reservation, News groups, Social Networking.

Unit 11 : Information Processing Tools

Hypertext Markup Language

Inserting image & Creating Tables in HTML 5 :

Insertion of image using the element IMG (Attributes: SRC, WIDTH, ALT, ALIGN), Superscript SUP, Subscript SUB, Creating Table TABLE (BACKGROUND, BGCOLOR, WIDTH, CELL SPACING, CELL PADDING)

Links & Frames in HTML : Linking, Creating Frames, Inserting Audio & Video.

XML: Introduction to XML, Difference between XML & HTML with respect to the following. Data Separation, Data Sharing, Document Structure, Tags, Elements, Child elements, Attributes, Values. XML Elements-Defining own tags In XML, root elements, child elements & their attributes.

Comment in XML, white space & new line in XML, well-formed XML documents, validating XML documents, XML Parser, Viewing XML documents in a web browser.

Javascript

Introduction to Javascript : Introduction to JavaScript, JavaScript Script, Alert Statement, Comments in JavaScript, Variables, Assignment, Semicolon in JavaScript, Operators in JavaScript, Simple & Compound Statements, if Statement, switch Statement.

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TERM I (PRACTICAL)

(A) Hands on Experience:

1. Working with Internet:

To Test some of the following Internet Services:

- Accessing the Internet
- Using different types of Protocols. (i.e. HTTP)
- Locating sites using different Search Engines
- Using e-mail Services
- Chating with others using Internet
- Creating Slogs & Sharing files.

2. Web Page Designing using HTML-

A Web Page is required to be designising HTML for testing the following areas :-

- Adding a title to web page
- Formatting Text
- Inserting Image
- Adding Ordered/ Unordered List
- Writing Text in paragraphs
- Adding content in Tabular Form
- Adding Internal/External Links

3. Web Page Designing using JavaScript -

A Dynamic Web Page is required to be designed using edit or/IDE for testing the following areas:-

- Adding a title to wed page
- Formatting Text
- Inserting comments

- using alert statement
- Using Prompt dialog box

Students are supposed to know the tools & style for designing domain specific Web pages from real life applications & the topics mentioned in the syllabus.

B) IT Application Report File: Students are supposed to make an IT Application Report File containing real life assignments in HTML & JavaScript on the topics from the domain:

- 4 HTML source code along with browser view.
- 4 JavaScript source code along with browser view.

(Must have print out of the above)

C) Viva Voice : The questions can be asked from any portion of the syllabus covered during Term I of Class X.

TERM II (THEORY)

UNIT	CHAPTERS	
UNIT III : Information Processing Tools & IT Applications	CHAPTER 7 : Looping in JavaScript	
	CHAPTER 12 : MySQL	
UNIT IV : Societal Impact of IT	CHAPTER 13 : Societal Impact of Information Technology	

Unit III : Information Processing Tools & IT Application

Looping in JavaScript : While, do...while loop, for loop, break statement, continue statement.

Database Management system :

MySQL : Concepts and need for a database, Introduction to Database Management System, Introduction to MySQL. SQL Commands, starting MYSQL, Creating a database in

MYSQL. Data Types : Text, Numbers, Date/Time, MYSQL, Tables, setting the primary key, inserting data in a table, inserting & deleting Data/Fields/Records, Changing the structure of a Table Creation & Adding new columns to the Table, Modifying columns, Changing the structure of a Table, Renaming a Table Retrieving all Data values of Table using select statement, working with operators, Sorting Data in a Table, Deleting Data from a Table, Updating Data in Tables. IT Applications : Students are suggested to have theoretical knowledge on the above areas & they are also suggested to work on the following topics also knowledge of various Java IDEs.

Unit IV : Social Impact of IT

Societal Impact of Information Technology : Virus, Worms, Trojan Horse, Antivirus, Software, Spyware, Malware, Spam, Data Backup & Recovery Tools & Methods, Hackers & Crackers with regard to Computer Data & Applications, Information Security provisions in E-commerce, IT & ICT

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TERM II (PRACTICAL)

A) Hands of Experience :

1. **Looping in JavaScript** : Students are supposed to write JavaScript code using various looping Statements.

2. Database - MySQL

A database is required to be created for testing the following areas :-

- Creating, Saving, Opening & Closing a Database
- Setting Data Type & Primary Key
- Creating/Modifying Table Design

B) IT Applications Report File:

1. Use Database Tools on following 5 topics

- Personal Data Record File
- Student Database
- School/ Calss Result Record
- Employee Database
- Stock Inventory

C) **Viva Voice:** All the questions here can be asked from any portion of the syllabus covered during Term II of Class X.

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UNIT TEST I

Chapter 1 : Introduction to the Internet	10 Marks
Chapter 2 : Internet Services	10 Marks
Chapter 3 : Inserting Images & Creating Tables in HTML 5	5 Marks

Total 25 Marks

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UNIT TEST II

Chapter 4 : Links & Frames in HTML	12 Marks
Chapter 5 : XML	13 Marks

Total 25 Marks

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HALF YEARLY EXAM (THEORY)

Chapter 1 : Introduction to the Internet	15 Marks
Chapter 2 : Internet Services	15 Marks
Chapter 3 : Inserting Images & Creating Tables in HTML 5	8 Marks
Chapter 4 : Links & Frames in HTML 5	8 Marks
Chapter 5 : XML	17 Marks
Chapter 6 : Introduction to JavaScript	17 Marks

Total 80 Marks

HALF YEARLY EXAM (PRACTICAL)

Chapter 3 : Inserting Images & Creating Tables in HTML 5	} 10 Marks
Chapter 4 : Links & Frames in HTML 5	
Chapter 6 : Introduction to JavaScript	10 Marks

Total 20 Marks

UNIT TEST III

Chapter 7 : Looping in JavaScript	10 Marks
Chapter 12 : MySQL	10 Marks
Chapter 13 : Societal Impact of Information Technology	5 Marks
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Total 25 Marks	

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PRE-TEST/TEST EXAM (THEORY)

Chapter 1 : Introduction to the Internet	7 Marks
Chapter 2 : Internet Services	12 Marks
Chapter 3 : Inserting Images & Creating Tables in HTML5	6 Marks
Chapter 4 : Links & Frames in HTML 5	6 Marks
Chapter 5 : XML	12 Marks
Chapter 6 : Introduction to JavaScript	8 Marks
Chapter 7 : Looping in JavaScript	5 Marks
Chapter 8 : IT Application-I	
Chapter 12 : MySQL	12 Marks
Chapter 13 : Societal Impact of Information Technology	12 Marks
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Total 80 Marks	

PRE-TEST/TEST EXAM (PRACTICAL)

Chapter 3 : Inserting Images & Creating Tables in HTML 5	} 7 Marks
Chapter 4 : Links & Frames in HTML 5	
Chapter 6 : Introduction to JavaScript	} 7 Marks
Chapter 7 : Looping in JavaScript	
Chapter 12 : MySQL	6 Marks
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Total 20 Marks	

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Final Examination

Chapter Wise Marks Distribution for Theory and Practical Exam

Chapter 1 : Introduction to the Internet	7 Marks
Chapter 2 : Internet Services	12 Marks
Chapter 3 : Inserting Images & Creating Tables in HTML5	6 Marks
Chapter 4 : Links & Frames in HTML 5	6 Marks
Chapter 5 : XML	12 Marks
Chapter 6 : Introduction to JavaScript	8 Marks
Chapter 7 : Looping in JavaScript	5 Marks
Chapter 8 : IT Application-I	
Chapter 12 : MySQL	12 Marks
Chapter 13 : Societal Impact of Information Technology	12 Marks
Chapter 14 : IT Application-II	
Total	80 Marks

NB : Chapters- 9, 10, 11 are excluded from the syllabus.

Chapter Wise Marks Distribution for Practical Exam

Chapter 3 : Inserting Images & Creating Tables in HTML5	} 7 Marks
Chapter 4 : Links & Frames in HTML 5	
Chapter 6 : Introduction to JavaScript	} 7 Marks
Chapter 7 : Looping in JavaScript	
Chapter 12 : MySQL	6 Marks
Total	20 Marks

Topic wise Marks Distribution for Practical Exam

Total	Viva	HTML	JavaScript	MySQL
20 Marks	5 Marks	5 Marks	5 Marks	5 Marks