

**BOARD OF SECONDARY EDUCATION KARACHI.**  
**S.S.C. (ANNUAL) EXAMINATION- 2023.**  
**COMPUTER SCIENCE PAPER - I**  
**CLASS IX (SCIENCE GROUP)**

Time: 3 Hours

(Marks : 60)

**SECTION " A " (20%)**

**MULTIPLE CHOICE QUESTIONS (MCQ's) (12 Marks)**

**Q.1. 12 MCQs will be given from whole syllabus. Each carries 1 Mark.**

**SECTION " B " (40%)**

**(SHORT ANSWERS QUESTIONS) (24 marks)**

**Note: Answer any Eight (8) questions from this section. Each carries 3 marks.**

**SECTION " C " (40%)**

**(DESCRIPTIVE ANSWER QUESTIONS) (24 Marks)**

**Note: Answer any four (4) questions from this section. Each carries 8 marks.**

**UNIT NO. 1**

**FUNDAMENTALS OF COMPUTER.**

**MULTIPLE CHOICE QUESTIONS (MCQ's). Page No. 26 (1, 2, 4, 5, 6, 8, 9)**

**SHORT QUESTIONS.**

1. Differentiate Compiler and Assembler.
2. Differentiate between System and Application software.
3. Describe artificial intelligence with example.
4. Which monitor will you refer in your school, CRT or FPD? Why?
5. Discuss Impact and Non-Impact Printers with examples.
6. Difference between Primary and Secondary memory.
7. Draw the block diagram of computer's basic operations.

**(DESCRIPTIVE ANSWER QUESTIONS)**

1. Prepare a table of generations.
2. List any five components present on motherboard.
3. Difference between Digital and analog computer, Microcomputer and Mini Computer.

**UNIT NO. 2**

**FUNDAMENTALS OF OPERATING SYSTEM.**

**MULTIPLE CHOICE QUESTIONS (MCQ's) Page No. 43 (1, 2, 4, 6, 8)**

**SHORT QUESTIONS.**

1. Distinguish among various types of interface of OS.
2. Apply installation process of any antivirus in a computer.
3. Define Operating System. Give three examples of operating system.
4. Differentiate between CLI and GUI. Write any two benefits of each.
5. Differentiate between single user and multi user OS?

**(DESCRIPTIVE ANSWER QUESTIONS).**

1. List the function of an OS? Write briefly about any two.
2. Which resources are managed by Resource Management function of OS.
3. List the program available in MS. Office and write why each program is used?

**UNIT NO. 3****OFFICE AUTOMATION.****MULTIPLE CHOICE QUESTIONS (MCQ'S) Page No. 59 (2, 3, 4, 6, 9)****SHORT QUESTIONS:**

1. Demonstrate page Layout Tab of MS Word.
2. Compose in Urdu and Sindhi languages in MS Word.
3. Identify the elements of MS Excel User Interface.
4. Difference between "Bring Forward" and "Send Backward".
5. Describe the different types of breaks in MS Word.
6. Name and describe two options in Orientation.

**(DESCRIPTIVE ANSWER QUESTIONS).**

1. Why do we use Watermark in a document? Give me examples of Watermarks.
2. List four Uses of spreadsheets in business.
3. List and define Position and Wrap Text option in Arrange Group.

**UNIT NO. 4****DATA COMMUNICATION AND COMPUTER NETWORK****MULTIPLE CHOICE QUESTIONS (MCQ's) Page No.92 (1, 2, 3, 5, 6, 7, 8, 9, 10)****SHORT QUESTIONS.**

1. Difference between Analog and digital signals
2. Difference between data rate and baud rate.
3. Difference between guided and unguided media.
4. Define different communication devices.
5. Explain function of router.
6. Differentiate among different types of modems.
7. Define the term computer network and networking.
8. Define the term network topology.
9. Describe functions of layers in TCP/IP model.
10. Define network address.
11. Describe IPV4 address.

**(DESCRIPTIVE ANSWER QUESTIONS).**

1. Explain components of communication using single example.
2. Difference between radio wave and microwave?
3. List merit and demerit of each topology.
4. Give with example LAN, WAN, and MAN.

**UNIT NO. 5****COMPUTER SECURITY AND ETHICS.****MULTIPLE CHOICE QUESTIONS. (MCQ's) Page No. 113 (1, 2, 3, 4, 5, 6, 8, 9)****SHORT QUESTION.**

1. Discuss Cyber –Attacks and how to prevent them.
2. Define and differentiate various types of viruses. Malware, Virus, Worm, Adware and Spyware.
3. Different between Username and Password.
4. Describe the information privacy.
5. Why is computer security important? Write any three reasons.
6. Why is information accuracy important?
7. What is Ethical Hacking?
8. Write any two measures to avoid email account hacking.
9. How is software piracy harmful for software developers?

**(DESCRIPTIVE ANSWER QUESTIONS).**

1. Write information accuracy important?
2. Write measures to avoid email account hacking.
3. How is software piracy harmful for software developers?

**UNIT N. 6****WEB DEVELOPMENT.****MULTIPLE CHOICE QUESTIONS. (MCQ's) Page No. 138 (1, 2, 4, 5, 7, 8, 9 10)****SHORT QUESTIONS.**

1. Difference between web hosting and web server.
2. Compose a paragraph in a webpage.
3. Use and image as a background of web page.
4. Define a hyperlink.
5. Difference between rows and column.
6. Difference between table heading and table data tags.
7. List out different website development tools.
8. How are images displayed in an HTML page?
9. Difference between ordered and unordered lists.

**(DESCRIPTIVE ANSWER QUESTIONS).**

1. List some popular text editors and other tools which help in designing and development of websites.
2. What are the steps involved in creating a complete website?
3. What kind of HTML elements are used to display data in rows and columns? Discuss some of its formatting features.

**UNIT NO. 7****INTRODUCTION TO DATABASE SYSTEM.****MULTIPLE CHOICE QUESTIONS (MCQ's) Page No. 157 (1, 2, 3, 5, 7, 8, 10)****SHORT QUESTIONS**

1. Difference between Design view and Datasheet view?
2. Difference between table and view?
3. Discuss the importance of ERD in business.
4. Discuss the use of databases in business with example.
5. Differentiate between flat file system and database system.
6. Differentiate between database and database management system.
7. Define entity.
8. Distinguish among primary, foreign and referential keys.
9. Define term ER model.

**(DESCRIPTIVE ANSWER QUESTIONS).**

1. Draw and define the component of ER diagram..
2. Write benefits of using relationships in the database
3. Explain entities, attributes and relationships with one example of each
4. List the major characteristics of primary and foreign keys.