9th CLASS (SLO's) STUDENTS LEARNING OUTCOMES EXAMINATION.
FEDERAL BOARD SSC- I EXAMINATION.
COMPUTER SCIENCE.

UNIT NO. 1   FUNDAMENTALS OF COMPUTER.

KNOWLEDGE BASED QUESTIONS. 30%
1. Describe Napier's Bone and slide rule.
2. Compare 1st and 3rd generation computers.
3. Differentiate between analog and digital computers.
4. Differentiate between system software and application software.
5. Name one model of each generation of computers.
6. Write down any six characteristics of 4th generation of computer?

UNDERSTANDING BASED QUESTIONS. 50%
1. What will happen is if storage devices are removed from a computer?
2. How a student can use computer to improve academic performance?
3. Give any three uses of computers in a school library.
4. Name few house hold appliances in which microprocessor is used.
5. What are the tasks performed by operating system?
6. What is the first high-speed printer?
7. Why the keys on keyboard are not arranged in alphabetical order?
8. What is Artificial intelligence?
9. Write down any three application of Mainframe computer.
10. Write down two benefits and one drawback of laser printer.

LONG QUESTIONS.
1. Explain four types for application software.
2. Describe the five generations of computers.
3. Explain the basic operations of computer.
4. Explain the following digital computers in terms of size, speed, storage capacity and number of user they can support.   A. Mainframe computers   b. Microcomputers.

UNIT NO. 2   FUNDAMENTALS OF OPERATING SYSTEM.

KNOWLEDGE BASE QUESTIONS. 30%
1. Give any three objectives of operating system?
2. Define UNIX and Windows operating system.
3. Difference between single-user and multi-user operating system.
4. Why operating system is important software for a computer? Give any five reasons.
5. Compare is GUI and CLI?
6. Define Linux operating system.

UNDERSTANDING BASED QUESTIONS. 50%
1. What is meant by managing data and why is it important?
2. Mention few disadvantages of using DOS.
3. Name two operating system which are used in modern mobile phones.
4. What is meant by resources for computer?
5. What is antivirus software?
6. Name six different versions of Windows 7.
7. When Microsoft introduced.

LONG QUESTIONS.
1. Explain the main functions of operating system.
2. Write notes on Macintosh and Linux operating systems.
3. Describe the basic icons of Windows operating system.
4. Describe the following types of operating systems.
    a) Batch processing system.
    b) Time-sharing system
    c) Real-time system.
5. What are benefits of using an Anti-Virus program?

UNIT NO. 3   OFFICE AUTOMATION.
UNDERSTANDING BASED QUESTIONS. 50%
1. What is a word processor? Write some advantages of it over a typewriter.
2. Differentiate between page break and section break.
3. Why header and footer are important in a word document?
4. Why hyperlinks are creed in Word document?
5. Differentiate between relative and absolute cell addressing in Excel.
6. How graphical representation of spreadsheet data can be helpful in business.

APPLICATION BASED QUESTIONS. 20%
1. Why Microsoft Office 2010 cannot be installed on a computer.
2. How to search text in a document.
3. Why a Webpage is a document which can be displayed in a web browser such as Google
4. Who Found Microsoft?
5. What is Inpage Urdu editor?

LONG QUESTIONS.
1. Explain text and paragraph formatting in word.
2. Describe the Paste Special command used in Excel.
3. Which shortcut keys are used in Word to move cursor to the beginning of line, end of line, top of the document and end of the document?

UNIT NO. 4   DATA COMMUNICATION.
UNDERSTANDING BASED QUESTIONS. 50%
1. Why do satellites stay in orbit and never fall of the earth?
2. List the communication devices.
3. Why digital signals are used in computer systems?
4. What is meant by transmission impairment?
5. Differentiate between attenuation and distortion.
6. Define data, data transmission, analog signals and digital signals.
7. What is Dial-u-modem? Why is it used?

APPLICATION BASED QUESTIONS. 20%
1. List the data transmission terminologies.
2. Describe signal-to Noise ratio.
3. Describe the Characteristics of communication channel.
4. Give any three reasons why guided communication medium is more reliable than unguided medium.
5. What is cross talk?

LONG QUESTIONS.
1. Describe the functions of the following communication devices.
    a) Router   b) Network Interface card   c) Switch/Access point
2. Describe the following guided media.
    a) Twisted pair cable   b) Coaxial cable   c) Fiber optic cable

UNIT NO. 5   COMPUTER NETWORKS.

KNOWLEDGE BASED QUESTIONS. 30%

1. What is meant by computer network?
2. What is meant by network architecture?
3. Write note on point-to-point networks.
4. Explain different types of modem which are commonly used.
   a) Dial –up-modem b. DSL Modem   c. ISDN Modem
5. Describe any three difficulties a company may face in running a business without having computer network.
6. Difference between half-duplex and full-duplex transmission modes.
7. Difference between a server and a client computer.
8. Compare LAN and WAN.

APPLICATION BASED QUESTIONS. 20%

1. Why star topology is more reliable than bus or ring topologies?
2. Mention any three problems which may occur if peer-to-peer network is used for a large number of users in an organization.
3. What is ISDN?
4. What is CDMA technology?

LONG QUESTIONS.

1. What are the advantages of using networks?
2. Explain the following data communication lines in terms of transfer rate ,coast, merits, and demerits.   I) Dialup   ii) DSL   iii) ADSL   iv) CDMA.
3. Write a note on the following.   I) Router   ii) Hyperlink   iii) Blue tooth   iv) ISDN

UNIT NO. 6   COMPUTER SECURITY AND ETHICS

KNOWLEDGE BASED QUESTIONS. 30%

1. Define cybercrime.
2. What are computer viruses?
3. What is the importance of computer security?
4. Difference between hacker and cracker.
5. Difference between authentication and authorizatxation.
6. What is meant by information privacy?
7. What types of problems may be faced if computer used do not comply with the moral guidelines of computer ethics?
8. What is meant by information Privacy?
9. Name any three places where authentication of people required.

APPLICATION BASED QUESTIONS. 20%

1. Give any three drawbacks of software piracy?
2. Write Ethical use of computer.
3. What is Antivirus software?
4. List three types of computer attacks and how can they be prevented.
5. Which authentication methodology provides highly secure identification and verification? Justify your answer.
6. Describe any five symptoms of malware.

LONG QUESTIONS.

1. Define malware and describe its types. Also explain how to protect computer system from virus attacks.
2. What are the common methodologies used for authentication?
3. Define computer ethics and write some important moral guidelines for ethical use of computer technology.