

HALF YEARLY EXAMINATION, 2024-25

INFORMATION TECHNOLOGY

Time – 3:00 Hrs.

Class – XI

M.M. : 60

Date – 12.09.2024 (Thursday)

Name of the student _____ Section _____

General Instructions:

- Please read the instructions carefully.
- This Question Paper consists of **24** questions in two sections – A and B.
- Section A has MCQ / Objective type questions.
- Section B contains Subjective type questions.

SECTION A – MCQ/OBJECTIVE TYPE QUESTIONS (30 MARKS):

- This section has 06 questions. Attempt all the questions.

SECTION B – SUBJECTIVE TYPE QUESTIONS (30 MARKS):

- This section contains 18 questions.
- Do as per the instructions given.

SECTION – A

MCQ/OBJECTIVE TYPE QUESTIONS

Q.1 Answer ANY 4 out of the given 6 questions on Employability Skills. (1x4=4)

- (i) One of your friends is taking a leave and wants you to tell the teacher that he is sick. What should you tell your friend?
- (a) Yes, I can do that.
- (b) No, I cannot do that because I don't want to lie to the teacher.
- (c) I understand that you want to take leave but why don't you tell the correct reason?
- (d) No, I cannot help you.
- (ii) State whether True or False:
Dressing and grooming does not affect your overall impression on others.
- (iii) What are the different types of sounds we use in English pronunciation?
- (a) Vowel sounds (b) Diphthong sounds
- (c) Consonant sounds (d) All of these
- (iv) Using a word processor, you can create resumes and posters. State whether this is true or false.
- (v) You have just finished attending a class in a biology lab. You have to go back to your classroom for other classes. After the lab, should you wash your hands?
- (a) Not really, you did not use the washroom as such.
- (b) You can just clean your hands under running water.
- (c) You should follow your hand-wash routine — wash, rinse and dry.

- (vi) In LibreOffice Writer Which menu option has the commands Save, Print and Close?
(a) Insert (b) File (c) Tools (d) Format

Q.2 Answer ANY 5 out of the given 7 questions. (1x5=5)

- (i) Data communication system within a building or campus is_____
- (a) LAN (b) WAN (c) MAN (d) PAN
- (ii) The arrangement (also called layout) of nodes in a network is called _____.
- (iii) What is the full form of WORA?
- (a) Write only Run Away (b) Write Once Run Anywhere
(c) Work only Read All (d) Withdraw On Running Application
- (iv) A _____ address is a unique 12 digit (6 digits for manufacturer code and 6 digits for serial number) hexadecimal number assigned to each NIC.
- (v) Write the fullform of mips.
- (vi) 1 nibble = _____ bits
- (vii) Java is a _____ programming language
- (a) High-level (b) Middle-level (c) Low-level (d) None of these

Q.3 Answer ANY 6 out of the given 7 questions. (1x6=6)

- (i) _____ is a magnetic secondary storage device for storing the data and is fixed in the box of a computer.
- (ii) Write the full form of JDK.
- (iii) Write the full form of ARPANET.
- (iv) Which network topology requires a central controller or hub?
- (a) Star (b) Mesh (c) Ring (d) Bus
- (v) How many primitive data types are there in JAVA?
- (a) 6 (b) 7 (c) 8 (d) 9
- (vi) _____ refers to the act of stealing a user's personal information through fraud mails.
- (vii) A _____ is used to restore the input signal to its original form, so that it can travel a larger distance.

Q.4 Answer ANY 5 out of the given 6 questions. (1x5=5)

- (i) Computer is a term derived from the term 'compute' which means to _____.
- (ii) Java Source Code is compiled into _____.
- (a) .Obj (b) Source Code (c) Bytecode (d) .Exe
- (iii) Which kind of language java is ?
- (a) Object Oriented (b) Procedural (c) Event Driven (d) None of these
- (iv) Which one option is not a type of cybercrime?
- (a) Data theft (b) Forgery
(c) Damage to data and systems (d) Installing antivirus for protection

- (v) 1 byte = _____ bits.
- (vi) _____ manages the communication needs of the system, be it communicating with the peripheral devices or the internet, are addressed by the operating system.
- (a) Communication Manager (b) Resource Management
(c) Process Management (d) Memory Management

Q5. Answer ANY 5 out of the given 6 questions. (1x5=5)

- (i) The _____ component allows us to accept multiline input from the user or display multiple lines of information.
- (ii) Which of the following are correct advantage of java?
(a) Java is Simple (b) Java is Secure (c) Java is Portable (d) All of these
- (iii) _____ are the special programs that help computer systems to work more smoothly, efficiently and effectively.
- (iv) Which of the following is smallest integer data type?
(a) int (b) byte (c) short (d) long
- (v) A Computer can be linked to internet through the
(a) cable modem (b) phone-line modem (c) DSL (d) All of these
- (vi) _____ allows to create pop-up window or dialog with predefined style.

Q6. Answer ANY 5 out of the given 6 questions. (1x5=5)

- (i) _____ buttons are groups of buttons in which, by convention, only one button at a time can be selected.
- (ii) Java is case sensitive?
(a) True (b) False (c) Depends On Compiler (d) None of these
- (iii) _____ is the main circuit board which holds together various components like CPU, memory, connectors for the hard drive etc.
- (iv) Java was designed by _____.
(a) Microsoft (b) Mozilla Corporation (c) Sun Microsystems (d) Amazon Inc.
- (v) A _____ is a multiport device used for connecting two or more local area networks (LAN), possibly operating at different speeds
- (vi) Sun Microsystems released the first public implementation as Java 1.0 in?
(a) 1994 (b) 1995 (c) 1996 (d) 1997

SECTION - B

(SUBJECTIVE TYPE QUESTIONS)

Answer ANY 3 out of the given 5 questions on Employability Skills. (2x3=6)

- Q7. Name any two common signs used for visual communication.
- Q8. Differentiate between header and footer in a word processor document in LibreOffice Writer?
- Q9. In SMART goals, what does 'S, M, A, R and T' stand for?

Q10. Name some of the common word processing applications available.

Q11. What do you mean by Grooming?

Answer ANY 3 out of the given 5 questions.

(2x3=6)

Q12. What is Eavesdropping?

Q13. Find the error and rewrite the java code correctly.

```
Int year = Integer.parseInt(JTF1.SetText);
int r = year % 4;
    if ( r == 0) {
        JTF2.getText(" It is a leap year");}
else
    JTF2.setText(" It is NOT a leap year");
```

Q14. What are cookies?

Q15. Differentiate between List box and Combo box.

Q16. Differentiate between Anti-virus and Firewall.

Answer ANY 2 out of the given 3 questions.

(3x2=6)

Q17. Write a JAVA code to accept a 2 digit number and reverse its digits.

Q18. Differentiate between Bus and Star Topology.

Q19. Differentiate between Single User and Multi user Operating system?

Answer ANY 3 out of the given 5 questions.

(4 x 3=12)

Q20. Write the full form of:

i) NIC ii) SRAM iii) SSL iv) NTFS v) FTP vi) TELNET

Q21. Write a Java program to accept Weekday No (1 - 7) and display the Day Name using Switch Case Statement.

Q22. Write any four characteristics of a computer?

Q23. List any four cyber crimes mentioned under Cyber Security.

Q24. Write a Java program to calculate Electricity bill based on the following criteria.

Units Consumed	Cost per unit
0 - 100	Rs. 4
101 - 200	Rs. 5
201 and above	Rs. 8

