

PT-2/HALF YEARLY EXAMINATION, 2022-23

INFORMATION TECHNOLOGY

Time - 7:15 AM to 10:20 AM

Class - XI

M.M. : 60

Date – 07.09.2022 (Wednesday)

Name of the student _____ Section _____

General Instructions:

- Please read the instructions carefully.
- This Question Paper consists of **24** questions in two sections – A & B.
- Section **A** has MCQ and Objective type questions.
- Section **B** contains Subjective type questions.
- Out of the given (6+18=24) questions, a candidate has to answer (6+11=17) questions.
- All questions of a particular section must be attempted in the correct order.

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.
- A candidate has to do 11 questions.
- Do as per the instructions given.

SECTION - A

Q.1 Multiple Choice Questions (Employability Skills). (1x4=4 Marks)

- (i) Kavita is collecting donations in her neighbourhood to help an old age home fix their water issues. What should she do while asking strangers to donate money?
- (a) Narrate the whole story of old age home
(b) Directly ask for the donation money
(c) Start a small conversation and then talk about the project which needs donation
(d) All of the above
- (ii) You can change the magnification of the page (i.e., make it bigger or smaller) using _____ option.
- (a) Page indicator (b) Proofing level (c) Zoom bar (d) Help
- (iii) How tracking your time helps you?
- (a) We can stay focussed.
(b) We can show everyone how hard we are working.
(c) We can understand where we are spending our time and manage our time better if needed.
(d) None of the above
- (iv) Which shortcut key is used in a LibreOffice Writer document to create a numbered list?
- (a) Ctrl+F12 (b) F12 (c) Shift+F12 (d) None of these

Q.2 Multiple Choice Questions (Subject Specific Skills).**(1x5=5 Marks)**

- (i) An operating system that allows several processors to perform computation at the same time is called:
- a) Single Program b) Multitasking c) Multiprocessing d) None of these
- (ii) Seema is unable to connect to the Network. The possible reasons could be
- i. Check the validity of the IP address of your system
ii. Fly lead could be faulty or damaged.
iii. The Network Card is Not Working Properly
iv. Check Audio Player Controls
- a) i, ii, iii b) ii, iii c) i, iv d) All of them
- (iii) RAM stands for _____.
- a) Random Access Memory b) Read All Memory
c) Run All Master d) Random Act Memory
- (iv) 1 byte = ___ bits
- a) 4 b) 8 c) 16 d) 32
- (v) Utility software programs help in
- a) improving the performance of computer b) provide security from virus,
c) manage disk space d) All of the above

Q.3 Objective type Questions (Subject Specific Skills).**(1x6=6 Marks)**

- (i) _____ operator is used to find the remainder of any two values.
- (ii) _____ is responsible for coordination between the different units of a computer.
- (iii) _____ is a small box like component that is either marked or unmarked.
- (iv) _____ is the main circuit board which holds together various components like CPU, memory, connectors for the hard drive and optical drives, expansion cards to control the video and audio, and connections in the form of various ports (such as USB ports).
- (v) _____ are containers used to store the values for some input, intermediate result or the final result of an operation.
- (vi) 1 KB = _____ Bytes.

Q.4 Multiple Choice Questions (Subject Specific Skills).**(1x5=5 Marks)**

- i) Java is a _____ programming language
- a) High-level b) Middle-level c) Low-level d) None of these
- ii) Which of the following is smallest integer data type ?
- a) int b) byte c) short d) long
- iii) Single line comment starts with _____ in Java.
- a) /** b) // c) /* d) None of these

Answer **ANY 3** out of the given 5 questions.

(2x3=6 marks)

Q.12) Differentiate between if-else and Switch Case?

Q.13) Write the full form of EPROM and EEPROM.

Q.14) Differentiate between JTextField and JTextArea.

Q.15) List the various functions of an operating system.

Q.16) Differentiate between Single-tasking and Multi-tasking Operating System.

Answer **ANY 2** out of the given 3 questions.

(3 x 2 = 6 marks)

Q.17) Predict the output: (input = 45)

```
int a = Integer.parseInt(TF1.getText());
int b = a/10;
int c = a % 10;
int sum = b + c;
TF2.setText(""+sum);
```

Q.18) List down the Characteristics of a Computer and explain any 3.

Q.19) Find the error and rewrite the correct code

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

Answer **ANY 3** out of the given 5 questions.

(4 x 3 = 12 marks)

Q.20) Write a Java program to check whether the given number is a Prime Number or not.

Q.21) Write a Java program to accept two digit number and then check whether it is a Palindrome number or not.

Q.22) Write a Java program to calculate the factorial of a given number. (input a=5)

Q.23) What is a button group? Which control is generally used with a buttongroup.

Q.24) Write a Java program to calculate Electricity bill based on the following criteria:

Units Consumed	Cost per Unit
0 - 100	Rs. 2
101 - 200	Rs. 3
201 and above	Rs. 5

