HALF YEARLY EXAMINATION (2021-22)
CLASS XI
INFORMATICS PRACTICES

Max.Marks: 35   Time Allowed: 90 minutes

General Instructions:
- The question paper is divided into 3 Sections - A, B, and C.
- Section A consists of 25 Questions (1-25). Attempt any 20 questions.
- Section B consists of 24 Questions (26-49). Attempt any 20 questions.
- Section C consists of 6 case study based Questions (50-55). Attempt any 5 questions.
- All questions carry equal marks

Q.No   **SECTION A**

This section consists of 25 Questions (1 to 25). Attempt any 20 questions from this section.
Choose the best possible option.

1   ENIAC stands for _____.
    A. Electronic Numerical Integrator And Computer
    B. Electronic Numerical Integrator And Calculator
    C. Electronic Numerical Integrator Automatic Computer
    D. Electronic Numerical Integrator Automatic Calculator

2   What will be the output of the following Python code snippet?
    d1 = {"Aliya":40, "Mishika":45}
    d2 = {"Aliya":466, "Mishika":45}
    d1 > d2
    A. True
    B. False
    C. Error
    D. None

3   Suppose list1 is [3,5,4,20,5], What is list1.index(5)?
    A. 0
    B. 1
    C. 4
    D. 2

4   Iteration stands for _____
    A. The order in which instructions are carried out
    B. A decision point in a program
    C. The repetition of steps within a program
    D. Testing a program to make sure it works

5   The period of _____ generation was 1964-1971.
    A. 1st
    B. 2nd
    C. 3rd
    D. 4th

6   Keys of the dictionary must be :
    A. Similar
    B. Unique
    C. Can be similar or unique
    D. All of these

7   The two membership operators are ……….and …………
    A. in, not in
    B. true , false
    C. =,==
    D. None

8	What does the following code print to console.
S=100
if S>200:
	print(1001)
else:
	print(2002)
- A. 1001
- B. True
- C. 2002
- D. False

9	Which of the following is not a type of printer?
- A. Inkjet
- B. Laser
- C. Dot Matrix
- D. Optical

10	Which command is used to insert 3 in a list "L" at 6th position?
- A. L.insert(6,3)
- B. L.insert(3,6)
- C. L.add(3,6)
- D. L.append(2,6)

11	Which operator is used in the expression a=10
- A. Relational
- B. Logical
- C. Equality
- D. Assignment

12	One of the biggest threats associated with digital data is :
- A. Storage
- B. Retrieval
- C. Deletion
- D. Capturing

13	What will be the output of the following Python code?
a={1:"A",2:"B",3:"C"}
for i in a:
	print(i,end=" ")
- A. 1 2 3
- B. 'A' 'B' 'C'
- C. 1 'A' 2 'B' 3 'C'
- D. Error, it should be: for i in a.items():

14	What will be the output of the following code?
list1=[7,1,8,4]
print(list1[::-1])
- A. [7,1,8]
- B. [7,1,8,4]
- C. [1,8,4]
- D. [4,8,1,7]

15	OSS stands for:
- A. Open System Service
- B. Open Source Software
- C. Open System Software
- D. Open Synchronized Software

16	Which function is used to remove all items from a particular dictionary?
- A. remove( )
- B. delete( )
- C. clear( )
- D. pop( )

17   _____ are the reserved words used by Python interpreter to recognize the structure of a program.
      A. Identifier
      B. Keyword
      C. Variable
      D. Function

18   What will be the result after execution of above python code?
```
list1=[13,12,15,17,13,16]
list1.pop(3)
print(list1)
```
      A. [12,15,17,13,16]
      B. [13,12,15,13,16]
      C. [12,15,17,16]
      D. [13,12,15,17,13,16]

19   A software that acts as a mediator between the OS and a device:
      A. Utility Software
      B. Application Software
      C. Device Driver
      D. Word Processor

20   To remove the errors from the program is …..
      A. Bug
      B. Debug
      C. Semantics
      D. None

21   Following set of commands are executed in shell, what will be the output?
```
>>>str="hello"
>>>str[:2]
>>>
```
      A. he
      B. lo
      C. olleh
      D. hel

22   A byte is a collection of :
      A. 8 bits
      B. 4 bits
      C. 16 bits
      D. 12 bits

23   Which out of the following is used to exit Python
      A. exit( )
      B. quit( )
      C. Alt+F4
      D. All of the above

24   Which of the following is correct for Python:
      A. Python is a cross platform language.
      B. Python is a dynamically typed language.
      C. Python is Free and open Source software.
      D. All of the above

25   In machine language instructions are written in:
      A. Binary code
      B. User oriented language
      C. Mnemonics
      D. None of these

26   C++ uses
      A. Assembler
      B. Compiler
      C. Interpreter
      D. All of the above

27   A list is a _____ sequence of values which can be of any type.
      A. mutable
      B. immutable
      C. derived
      D. All of the above

28   Which of the following is an invalid statement ?
      A. a=b=c=5
      B. a,b,c=5,6,7
      C. a b c =5 6 7
      D. a_b_c=7

29   What will the above Python code do?
      dict={"Phy":94,"Che":70,"Bio":82,"Eng":95}
      dict.update({"Che":72,"Bio":80})
      A. It will create new dictionary as dict={"Che":72,"Bio":80} and old dict will be deleted.
      B. It will throw an error as dictionary cannot be updated.
      C. It will simply update the dictionary as dict={"Phy":94,"Che":72,"Bio":80,"Eng":95}
      D. It will not throw any error but it will not do any changes in dict

30   What do we use to define a block of code in Python language?
      A. Key
      B. Brackets
      C. Indentation
      D. None of these

31   _____ is capable of recognizing a pre-specified type of mark made with dark pencil or ink.
      A. OCR
      B. OMR
      C. MICR
      D. Bar code reader

32   How would you write xy in Python as an expression ?
      A. x^^y
      B. x *y
      C. xy
      D. x ** y

33   _____ is boot firmware, a small program that controls various electronic devices attached to the main computer system.
      A. System bus
      B. RAM
      C. BIOS
      D. BOIS

34   Which of the following is a selection control statement:-
      A. for
      B. while
      C. if..else..
      D. print

35   Kaspersky is an example of:
      A. Compression Software
      B. Backup Software
      C. Text Editor
      D. Antivirus Software

36   How many times following loop will execute:
      for x in "Computers":
          print(x)
      A. 10
      B. 1
      C. 8
      D. 9
37   In an if..else… statement the _____ portion is optional.
      A. colon (:)
      B. Expression
      C. else
      D. if
38   When power is switched off and data which is not saved is lost forever, such type of memory is
      classified as:
      A. Volatile
      B. Non Volatile
      C. Impact
      D. Non-Impact
39   Choose the correct identifier name
      A. 9marks
      B. &sum
      C. _Total
      D. All are correct
40   Single-line comments in Python begin with _____ symbol.
      A. %
      B. "
      C. ''
      D. #
41   The extend( ) of List adds all the items of a list (passed as an argument) at the end of another list.
      A. True
      B. False
42   The _____ operator replicates a list.
      A. +
      B. /
      C. *
      D. **
43   The _____ function arranges the elements of the list either in ascending or descending order.
      A. arrange()
      B. order()
      C. sorted()
      D. sort()
44   A computer system can not work without:
      A. Printer
      B. Application Software
      C. System Software
      D. All of the above
45   The input( ) returns the value as _____ type :
      A. integer
      B. list
      C. floating
      D. none of the above
46   Choose the perfect word for Python , Python is a …. Language
      A. Upper case
      B. Upper Lower case
      C. Case sensitive

D. None

47 Which of the following is valid arithmetic operator in python :
   A. //
   B. ?
   C. <
   D. and

48 The sequential accessing of each of the elements in a list is called :
   A. List Indexing
   B. List Traversal
   C. List Slicing
   D. List Accessing

49 What is the output of this expression, 3*1**3?
   A. 1
   B. 27
   C. 9
   D. 3

SECTION-C
Case Study based Questions
This section consists of 6 Questions (50 -55) Attempt any 5 questions.

Agro Basket is a department store with a wide range of merchandise including groceries, fruits, vegetables and household accessories. It aims to develop a complete software for Billing, Inventory and Accounts management and to provide consumers a user-friendly interface to view item codes and prices of various items.
While creating software Isha needs help in implementing dictionary named as fruits.
fruits={"Banana":60,"Mango":150, "Guava":120}
Based on the given information, answer the questions NO. 50-55.

50 She wants to add a new item : Key as apple and Value as 200 in the above dictionary choose the right command to do so:
   A. fruits.add(apple,20)
   B. fruits[apple]=200
   C. fruits[200]=apple
   D. fruits["apple"]=200

51 She wants to delete an item Mango from the above dictionary choose the right command to do so:
   A. fruits.pop("Mango")
   B. fruits.popitem()
   C. del fruits("Mango")
   D. All of the above

52 She wants to display the price for Guava from the above dictionary choose the right command to do so:
   A. fruits.display("Guava")
   B. print(fruits[2])
   C. print(fruits["Guava"])
   D. print(fruits[price])

53 She wants to create a new dictionary named as grocery choose the right command to do so:
   A. grocery={ }
   B. grocery=dict()
   C. Both A & B
   D. None of these

54 She wants to display the list of all fruits choose the right command to do so:
   A. fruits.items( )
   B. fruits.keys( )
   C. fruits.values( )
   D. fruits.get( )

55 She wants to check the number of fruits in the above dictionary choose the right command to do so:
   A. len(fruits)   B. len("fruits")   C. fruits.len()   D. length(fruits)