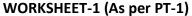
NOIDA PUBLIC SCHOOL



(Affiliated to CBSE, New Delhi)

Class: XI Sub: I.P. (065)



Teacher Incharge: Mr. Rahil Shrivastav



Q1. Answer of the following question:

Case Study Based and Source Based Question:-

- A. Xenox Technologies deals in hardware components required for assembling computer systems in the Nehru Place Market. They provide reliable and efficient data storage devices to their customers.
 - Six Storage devices in which they deal are described below. Name the storage devices being described and also list the appropriate category of storage.
 - i. Optical Media which use one spiral track; red lasers are used to read and write data on the media surface; makes use of dual-layering technology to increase storage capacity.
 - ii. Non-Volatile memory chip: contents of the chip cannot be altered; it is often used to store the start-up routines in a computer.
 - iii. Optical Media which use concentric tracks to store data; this allows read and write operations to be carried out at the same time.
 - iv. Optical media which use blue laser technology to read and write data on the media surface.
 - v. Magnetic disc with very large storage capacity; can be used to store vast amounts of data; mostly fixed in computer cases and serves as the main storage device.
- B. World Class Telecom Company is planning to conduct a videoconference with its associated partners across several nations. In its videoconferencing area, there are several microphones, speakers and webcams. Describe the purpose of each of the devices.
- C. ABC school newsletter contains text and images in it. The head teacher needs one thousand copies of this newsletter. Give four reasons why a laser printer should be used rather than an inkjet or a dot matrix printer.
- D. IndiaSells is an India-based cargo company that deals with the export and ale of various goods within the country and across the globe. To do business analysis of the day-to-day transactions, they have hired a programmer to develop a computerized system for the same.

Write a Python code that accepts:-

- i.. cost of goods sold (cogs),
- ii. Revenue generated,
- iii. operating costs (oc) and
- iv. prints gross profit, net profit
- v.. prints net profit percentage?

E. Gurukul Vidyapeeth is a reputed institution in the field of academics and extra-curricular activities. Every year, with the commencement of the new session, it hikes fee by 10% for all the students which was manually done till date and required enormous efforts on the part of the office staff.

To solve this problem:

- i. develop a python program that calculates this 10% fee hike every year automatically after obtaining the basic fee amount from the user and
- ii. Displays it to the parents of the students enrolled with the institute.
- Q2. Difference between Primary Memory and Secondary Memory.
- Q3. Why are language processors used? List their types.
- Q4. What is the use of light Pen and Bar Code Reader?
- Q5. What are the uses of OMR and Microphone?
- Q6. Explain Software and Classification of Computer Software?
- Q7. Write a Python Program to print your name?
- Q8. Write a Python Program sum of two numbers with output.
- Q9. Write a Python Program to calculate the area of circle with output.
- Q10. What is IDLE?
- Q11. Write the Output of the following:-

```
num1=4
num2=num1+1
num1=2
print(num1, num2)
```

- Q12. Explain Features of Python.
- Q13. Define keywords and Identifiers.
- Q14. Write a Python Program to use type() in integer number.
- Q15. Write Output:
 - a. print(101, "Hello", 2.9, "World")
 - b. print('I am a Class XI' + 'Students')
- Q16. Write a Python Program to input two numbers and find their sum and product.
- Q17. Write a Python Program to calculate simple interest by inputting the value of Principal amount and rate from the user for a time period of 5 years.
- Q18. Write a user defined function to print a left angle triangle with output.
- Q19. Write a user defined function to print a right angle triangle with output.
- Q20. What is the difference between expression and statement in Python?