

PGT INFORMATION PRACTICES

1. Who launched the 90-day campaign 'Azadi Se Antyodaya Tak'?

- (A) Amit Shah
- (B) Piyush Goyal
- (C) Kiren Rijiju
- (D) Giriraj Singh

Correct Answer: (D)

2. Which country signed agreements on training staff and IT cooperation to deepen railway cooperation In Sep 2022?

- (A) Russia-India
- (B) Ukraine-Turkey
- (C) India-Bangladesh
- (D) America-India

Correct Answer: (C)

3. The “Donbas War” is currently being fought in

- (A) Serbia
- (B) Ukraine
- (C) Syria
- (D) Lebanon

Correct Answer: (B)

4. Pedagogy is the study of

- (A) education
- (B) learning process
- (C) teaching methods
- (D) guiding students

Correct Answer: (C)

5. Dyslexia is associated with

- (A) mental disorder
- (B) mathematical disorder
- (C) reading disorder
- (D) behavioural disorder

Correct Answer: (C)

6. Which government organizations will develop guidelines for the education of gifted children?

- (A) NCERT and NCFCS
- (B) NCERT and NCTE
- (C) NCERT and NTA
- (D) NCERT and SCERT

Correct Answer: (B)

7. Which of the following can be used for Audio-Video communication?

- (A) Video Conferencing
- (B) Ping program
- (C) Email
- (D) File transfer

Correct Answer: (A)

8. _____ is usually used for storage in handheld devices, such as digital cameras, camcorders and other equipments used for photography.

- (A) CD Drive
- (B) DVD drive
- (C) Memory card
- (D) Floppy Drive

Correct Answer: (C)

9. What is the output of the following snippet?

```
for i in range(2,6,2):  
    print(i, end="")  
  
    if i == 3:  
        break
```

- (A) 2345
- (B) 234
- (C) 23
- (D) 24

Correct Answer: (D)

10. 01000110, 01111100, 10000001 are examples of _____

- (A) bit
- (B) Byte
- (C) Nibble
- (D) None of the above

Correct Answer: (B)

11. Consider the following data frame and the preamble code in python:

```
import pandas as pd  
d={'Customer Name':['Arzoo','Ankit','Biral'],'Company':['DELL','HP','DELL'],'RAM in GB':  
[8,6,4],'Prize':[38500,36700,34850]}  
df = pd.DataFrame(d)
```

Which of the following can be used to print the following output:

	0	1	2
Customer Name	Arzoo	Ankit	Biral
Company	DELL	HP	DELL
RAM in GB	8	6	4
Prize	38500	36700	34850

- (A) df.t
- (B) df.T
- (C) df.R
- (D) df.r

Correct Answer: (B)

12. Read the following Assertion and Reason carefully and choose the correct answer.

Assertion (A): You can create pandas series from NDArray using NumPy library after importing the NumPy module and creating Array using arrange() function.

Reason(R): NumPy is an open-source library that provides functions and properties for multidimensional array and matrix data structure.

Options :

- (A) Both Assertion (A) and Reason (B) are correct and Reason (R) is the correct explanation of Assertion (A)
- (B) Both are correct but Reason(R) is not the correct explanation of Assertion (A)
- (C) Assertion (A) is true but Reason (R) is false
- (D) Assertion (A) is not correct but Reason (R) is correct

Correct Answer: (D)

13.What will be the output of following code:

```
import pandas as pd
s=pd.Series([11,12,13,14,15,16])
s[1:4] = 20
s=list(s)
print(s)
```

Option:

- (A) [11, 20, 20, 20, 15, 16]
- (B) [20, 20, 20, 20, 15, 16]
- (C) [20, 12, 13, 20, 15, 16]
- (D) [11, 20, 13, 20, 15, 16]

Correct Answer: (A)

14. Ms. Priya is a python developer and she created a series using the following code, but she missed some of the lines given as blank. Fill that blanks and help her to complete the code:

```
import pandas as pd
import _____ as np
s1=pd.Series([3,4,_____,44,67])
print(s1)
```

Output:

```
0  3
1  4
2  NaN
3  44
4  67
```

- (A) numPy, no.None
- (B) numpy,np.nan
- (C) Numpy,np.NaN
- (D) NumPy,np.NaN

Correct Answer: (B)

15. Mr. Sidhhart wants to define index explicitly for the following pandas series:

```
import pandas as pd
s=pd.Series([11,12,13,14])
```

Which of the following statement(s) is/are correct?

Statement 1: s.index=['1st','2nd','3rd','4th']

Statement 2: s.index('1st','2nd','3rd','4th')

- (A) Only Statement 1 is Correct
- (B) Only Statement 2 is Correct
- (C) Both statements are correct
- (D) None of these statements are correct

Correct Answer: (A)

16. Mukesh is working on a program with a dataframe with 5 rows (indexed 0 to 4) and wants to add a row at the end of the dataframe. Select the appropriate statement to serve the purpose.

```
>>>
=====
   Name  Eng  Maths  IP
0  Abhay  66    85   95
1  Bharat  69    82   82
2  Chandu  75    84   63
3  Dharmik 74    80   84
4  Ervin  70    75   90
5  Firoz  76    80   84
```

- (A) `df.add({'Name':'Firoz','Eng':76,'Maths':80,'IP':84'})`
- (B) `df.append({'Name':'Firoz','Eng':76,'Maths':80,'IP':84'})`
- (C) `df.append({'Name':'Firoz','Eng':76,'Maths':80,'IP':84'},ignore_index=True)`
- (D) `df[{'Name':'Firoz','Eng':76,'Maths':80,'IP':84'}]`

Correct Answer: (C)

17. Which of the following statement(s) is/are correct for social media websites?

- i) The platform encourages users to share information
 - ii) Users can interact online with each other using social media apps or channels
 - iii) It has potential to shape the outcome of politics, business, culture, education etc.
 - iv) No matter how genuine someone is appearing online, they might be pretending and hiding their real identity
- (A) i, ii and iii
 - (B) i, iii and iv
 - (C) ii, iii and iv
 - (D) All of the above

Correct Answer: (D)

18. Match the following with the service and company

- | | |
|-----------------|--------------|
| 1. Google Drive | a. Microsoft |
| 2. One Drive | b. Yahoo |
| 3. DropBox | c. Google |

- (A) 1 – c, 2 – a, 3 – b
- (B) 1 – b, 2 – a, 3 – c
- (C) 1 – c, 2 – b , 3 – a
- (D) 1 – a, 2 – b , 3 – c

Correct Answer: (A)

19. Which of the following cannot be provided using data encryption?

- i) Prevention from Virus attack
- ii) Prevention from unauthorised data access
- iii) Prevention of data loss due to hardware failure
- iv) Prevention of hacking attacks
- v) Prevention from DDOS attacks

- (A) i-ii-iii-iv
- (B) i – iii – iv – v
- (C) Only i – iii – v
- (D) ii – iv – v

Correct Answer: (B)

CASE STUDY BASED QUESTION

Mr. Ankit is working in an organization as data analyst. He uses Python Pandas and Matplotlib for the same. He got a dataset of the passengers for the year 2010 to 2012 for January, March and December. His manager wants certain information from him, but he is facing some problems. Help him by answering few questions given below:

	Year	Month	Passengers
0	2010	Jan	25
1	2010	Mar	50
2	2012	Jan	35
3	2010	Dec	55
4	2012	Dec	65

20. Fill in the blanks to complete the Code to create the above data frame:

```
import pandas as _____ #Statement 1
```

```
data={"Year":[2010,2010,2012,2010,2012], "Month":["Jan", "Mar", "Jan", "Dec", "Dec"]  
,"Passengers":[25,50,35,55,65]}
```

```
df=pd. _____ (data) #Statement 2
```

```
print(df)
```

Options:

- (A) Statement 1: PD, Statement 2: DATAFRAME
- (B) Statement 1: pd, Statement 2: dataframe
- (C) Statement 1: pd, Statement 2: DataFrame
- (D) Statement 1: pd, Statement 2: Dataframe

Correct Answer: (C)