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ANNUAL EXAMINATION (2022-23)
CLASS XI SUBJECT – INFORMATION PRACTICES

TIME-3Hrs.

MM: 70

Section – A

[1 Mark each]

1. What are the 3 main cloud services? Name them.
2. Write full forms of: a. EDVAC b. VLSI
3. Which of these is not a web browser: a. Google Chrome b. MS Edge c. Windows Explorer d. Internet Explorer
4. RAM is : a. Volatile b. Non-volatile c. both a & b d. None of these
5. A 4bit word in binary is called a _____
6. Data input through input device is temporarily stored in _____
a. ROM b. RAM c. Flash d. All of these
7. Which of these is a threat to digital data?
a. Data can be accidentally deleted b. Data can be stolen by hackers
c. Storage devices can fail d. All of these
8. You can download and install python on your computer without paying any fee. It even allows to read its source code and make changes to it. Hence python is a/an _____ language.
a. Freeware b. Shareware c. Free & Open source d. All of these
9. Which of the following printers is used to create a replica of the image?
a. Inkjet printer b. Laser printer c. 3D printer d. Photocopier
10. _____ is a collection of related data items stored in an organised manner.
a. Data b. Office c. Library d. Database
11. A database _____ is a restriction on the type of data that can be inserted in a table.
12. The '*' symbol in a select query retrieves _____.
a. All data from table b. Data of primary key alone c. NULL values d. None of these
13. _____ comprises of algorithms that use datasets to learn on their own and make predictions.
14. The code which is used to add remarks in the source code and has no effect when the program is executed is called _____.
a. Statement b. Block c. Comment d. None of these
15. Which of these is not a limitation of file system?
a. Data Redundancy b. Inconsistency c. Data Visibility d. Controlled data sharing
16. What will be the output for the statement:

```
for i in range(1,10,3):
    print(i)
```

a. 1,3,5,7,9 b. 1,5 c. 1,4,6,9 d. 1,4,7
- 17 & 18 are Assertion and Reasoning based questions. Mark the correct choice as:
a. Both A and R are true and R is the true explanation for A
b. Both A and R are true and R is not the true explanation for A
c. A is True but R is False.
d. A is False but R is True.

17. Assertion (A): Items in dictionaries are unordered.

Reason(R): You may not get back the data in the same order in which data is entered initially in the dictionary.

18. Assertion(A): The Distinct keyword must be used in an SQL statement while eliminating duplicate rows.

Reason(R): Distinct qualifier works only with numeric datatypes.

Section – B

[2 Marks each]

19. What are different types of Application Software? Give any two examples of each.
20. What is difference between Compiler, Interpreter and Assembler with examples?
21. What is AI? Explain briefly any two AI based technological application?
22. Write python code to illustrate following functions of List i. append() ii. extend() iii. sort() .
23. Consider the following code fragments. What outputs will produce?

```
aDict = {'Bhavna': 1 , "Richards" : 2 , "Firoza" : 10 , "Arshnoor" : 20 }
temp = 0
for value in aDict.values( ) :
    temp = temp + value
print(temp)
```

24. What are the various types of SQL commands? Name all the commands in DDL.

25. Define primary key. Explain the purpose of primary key in a table.

Section – C

[3 Marks each]

26. Write down the type of memory for (Q.i to iii) and name of input or output devices for (Q.- iv to vi)

- i. To store data permanently in your Mobile phone :-
- ii. To execute the Python program from your Laptop :-
- iii. To store BIOS program to start your school desktop computer:-
- iv. To print 3 D models :-
- v. To enter audio based command :-
- vi. To make soft copy of your identity card:-

27. Explain the conditionals in python with example [if - elif - else].

28. Define RDBMS. Explain Attribute, Tuple, Domain, Degree and cardinality in a relation.

29. XYZ company is organising a conference, in which there will be participants from all parts of the world. Write SQL statement to create the following participant table.

Field	Type	Constraint
Participant_ID	Integer	Primary key
Name	Varchar(50)	
Arrival_date	Date	
Departure_date	Date	
Phone	Varchar(15)	
emailID	Varchar(50)	

Write SQL command to create the above table with the given constraint.

30. What is BigData? Explain the characteristics of BigData.

31. What are the various limitations of file system? Explain how DBMS overcomes those limitations.

Section – D

32. Write MySQL query for the following:

[10 Marks each]

Prod_id	Pname	Company	Price
P001	Optical Mouse	Logitech	395.5
P002	Laptop	HP	57000
P003	Headphone	HP	785.99

- a. Write an SQL statement to display all the details for prod_id , 'P001' and 'P003'. 2
- b. Update price of 'HP' products by 10%. 2
- c. Write a query to display the records in descending order of price 2
- d. What is Degree and Cardinality of the product table? 2
- e. Display all products whose price is between 500 and 5000. 2

OR

- a. What are the various types of loops in python? Explain the working of 'for loop' in python. 4
- b. Write a python program to accept a string and display the number of times the alphabet is repeated. 3
- c. Write a python program to accept a string and display the count of vowels 3

33. Answer the following queries based on the table given: Employee

EMPNO	ENAME	JOB	SAL	COMMISSION
8369	SMITH	CLERK	20000	500
8499	ANYA	SALESMAN	28000	5000
8521	SETH	SALESMAN	35000	1000
8701	VIKAS	CLERK	18000	500
8566	MAHDEVAN	MANAGER	32000	7500
8654	SCOTT	PRESIDENT	65000	5000

- a. Display all 'SALESMAN' from the employee table. (2)
- b. Display all the employees who earn more than 30000 (2)
- c. Add EMPNO as a primary key by modifying the table. (2)
- d. Display all employee names and salary including commission as 'Total Salary' (2)
- e. Display all the employees whose job is not 'clerk' or 'manager'. (2)

OR

Explain the following terms with example.

- a. Artificial Intelligence
 - b. Machine Learning
 - c. IOT
 - d. Big Data
 - e. Cloud Computing
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