

Holiday Home Work for Class - XI - A

Subject : Geography

- 1- All the questions from the Lesson - Climate, Natural Vegetation, and Soil, Water in the Atmosphere, Heat Budget, Solar Radiation,
- 2- Map work - All the Plates, currents, Ring of Fire Koeppen's classification of climatic Regions of India.

Winter break home work

Class XI economics

Solve three question on calculation of mean deviation from all series.

Prepare characteristics of different forms of market.

Class xi- chemistry

Unit redox, hydrogen, s block and p block

Manufacturing / preparation methods of diborane, borax, washing soda, baking soda, plaster of paris,

Chemical properties of water.

Balancing of equation.

Hydrides meaning, types and example with properties.

Hydride gap.

Methods of removing hardness of water.

Pankaj asthana

Pgt chemistry

1. FOR CLASS XI (PHYSICS)

**(a) TWO NUMERICAL PROBLEM PER DAY FORM NCERT BOOK
FROM CHAPTER 9 TO 12.**

(b) ALL MCQ QUESTION OF NCERT EXEMPLAR FROM CHAPTER 9 TO 12.

Holiday Home Work (Winter - Books 2019-20)

Class — XI (A and B) X

- Q.1. Solve two comprehension passages.
- Q.2. Solve two passages of note-making
- Q.3. Solve two questions of each of the following topics:-
- (a) Advertisement
 - (b) Notice
 - (c) Posters
 - (d) Report
 - (e) Article
 - (f) Letter Writing
 - (i) Business letter
 - (ii) Application for Job
 - (iii) Letter to the Principal / College Authorities
- Q.4. Solve two unsolved question papers.
(Questions from the lessons which are not taught
can be spared. (Literature section only))

Vijay Kumar Pandey
PGT-English
K.V. Govt. Secutt., Ayodhya

1. सीधा प्रसारण क्या है ? उद्धरण के साथ समझाइए।
2. संचार के विभिन्न प्रकारों का विवरण करें।
3. टीडीवी लेखन की विशेषताओं का वर्णन करें।
4. समाचार का परिभासित करें तथा उसके तत्वों को वर्णन करें।
5. संपादन के लिए लोगों का वर्णन करें।
6. मार्केटिंग सम्बन्धित एक हेठले स्वरूप लिखें।
7. फ्रीट प्रबन्धन क्या है ? उदाहरण सहित समझाइए।
8. शब्दकोश के प्रमुख नियमों की चर्चा करें।

रजत 21.12.19
रजत कुमार

(स्नातकोत्तर शिक्षक - हिन्दी)

21/12/19, Holiday Home work (Winter Break)

2019 - 2020

SUBJECT - MATHEMATICS

CLASS : - XI

① Solve $\sqrt{1+i}$

② Find area of triangles formed by the lines
 $y-x=0$, $x+y=0$, $8x-k=0$

③ Add up to n terms

$7+77+777+\dots = n$ terms

④ Convert in polar form

$$\left(\frac{1+3i}{1-2i} \right)$$

⑤ Expand using binomial theorem

$$\left(1 + \frac{x}{2} - \frac{2}{x} \right)^4$$

⑥ In a $\triangle ABC$ Prove that

$$a \sin(B-C) + b \sin(C-A) + c \sin(A-B) = 0$$

⑦ Prove that

$$\frac{\cos 4x + \cos 3x + \cos 2x}{\sin 4x + \sin 3x + \sin 2x} = \cot 3x$$

⑧ Prove by mathematical induction

$3^{2n+2} - 8n - 9$ is divisible by 8

⑨ If $(a+ib)(c+id)(e+if)(g+ih) = A+ib$

then show that $(a^2+b^2)(c^2+d^2)(e^2+f^2)(g^2+h^2) = A^2+B^2$

⑩ If $n_{C_3} = n_{C_8}$ find n_{C_7}

With love & respect
Anupam Joshi

Holiday Homework Class 11 Humanities-

History

The students should make a project file on Evolution of Humans or Roman Empire (any one aspect).

The project should consist of the following:

1. Title page
2. Acknowledgment
3. Table of contents
4. Introduction
5. The body of the project should have description of the selected topic, pictures, data and other relevant information
6. Conclusion should have students' observations on the topic
7. Bibliography and references

KENDRIYA VIDYALAYA, FAIZABAD CANTT
WINTER HOLIDAY HOMEWORK (2019-20)
CLASS-XI (COMPUTER SCIENCE)
TOPIC- LIST

Q1.What will it returns?

>>>eval('5+8')

Q2. >>>a=list('exam')

>>>a

Choose the correct option:

- (i) ['exam']
- (ii) ('exam')
- (iii) ['E','x','a','m']
- (iv) ['e','x','a','m']

Q3.(a)What Option will it returns True or false??

a=[1,2,[3,4],[5,6],7]

- (i) 3 in a →
- (ii) [1,2,8,9]<[9,1] →
- (iii) [1,2,3]==[1.0,2.0,3.0] →

(b)Find the given values:

- (i)[a[1]]+a[3] →
- (ii)a[: :4] →

Q4.Find the output:

>>>L=[1,[2,3],[4,5[6,7]]]

>>>L*2 →

>>>[L,L] →

Q5.What will it returns

>>>a=[1,2,3,4,5,6,9,8,7]

(i)a[-16:6] →

(ii)a[6:-2] →

Q6. Write the syntax of the function that adds single element to the end of the list.

Q7. >>> a=['D','O','Y','O','U','R','B','E','S','T']

>>> del a[2:-5]

>>>a

Q8. Write the syntax of insert method and insert 'S' in the given list at any position by using insert method.

L=['t','p','r','m']

Q9. T=[1,4,9,16,25]

(i) del T

>>> T

(ii) T.pop()

>>> T

(iii) T.clear()

>>> T

Q10. Write the syntax to sort a list in decreasing order by using reverse method .

Q11. The _____ method deletes the 1st occurrence of a given element from the list.

Q12. Write the output

>>> a=[1,2,2,3,4]

>>> a[a[a[a[2]+2]]]

Q13. >>> a=[1,2,3,4,5,6,7,8,9]

>>> print(a[-1:-2:-3])

Q14. Accessing and processing each element of a sequence is known as _____.

Q15. (i) The + operator that adds one list to the end of another is called _____ operator.

(ii) The * operator that repeats a list is known as _____ operator.

TOPIC- TUPLE

1. Fill up the blanks using the following words

(key ,heterogeneous , immutable homogeneous)

- a) We generally use tuple fordatatypes and list fordatatypes.
- b) Since tuple are....., iterating through tuple is faster than with list. So there is a slight performance boost.
- c) Tuples that contain immutable elements can be used asfor a dictionary. With list, this is not possible.

2. Which of the following is a Python tuple?

- a. [1, 2, 3]
- b. (1, 2, 3)
- c. {1, 2, 3}
- d. {}

3. Suppose t = (1, 2, 4, 3), which of the following is incorrect?

- a. print(t[3])
- b. t[3] = 45
- c. print(max(t))
- d. print(len(t))

4. What will be the output?

- 1. >>>t=(1,2,4,3)
 - 2. >>>t[1:3]
-

- a. (1, 2)
- b. (1, 2, 4)
- c. (2, 4)
- d. (2, 4, 3)

5. What will be the output?

- 1. >>>t=(1,2,4,3)
 - 2. >>>t[1:-1]
-

- a. (1, 2)
- b. (1, 2, 4)
- c. (2, 4)
- d. (2, 4, 3)

6. What will be the output?

`d = {"john":40, "peter":45}`

```
d["john"]
```

- a. 40
- b. 45
- c. "john"?
- d. "peter"?

7. What will be the output?

```
>>>t = (1, 2)  
>>>2 * t
```

- a. (1, 2, 1, 2)
- b. [1, 2, 1, 2]
- c. (1, 1, 2, 2)
- d. [1, 1, 2, 2]

8. What will be the output?

```
>>>my_tuple = (1, 2, 3, 4)  
>>>my_tuple.append( (5, 6, 7) )  
>>>print len(my_tuple)
```

- a. 1
- b. 2
- c. 5
- d. Error

9. What will be the output?

```
numberGames = {}  
numberGames[(1,2,4)] = 8  
numberGames[(4,2,1)] = 10  
numberGames[(1,2)] = 12  
  
sum = 0  
for k in numberGames:  
    sum += numberGames[k]  
  
print len(numberGames) + sum
```

- a. 30
- b. 24
- c. 33
- d. 12

10. What will be the output?

```
numberGames = {}  
numberGames[(1,2,4)] = 8  
numberGames[(4,2,1)] = 10  
numberGames[(1,2)] = 12  
?  
sum = 0  
for k in numberGames:  
    sum += numberGames[k]  
?  
print len(numberGames) + sum
```

- a. 30
- b. 24
- c. 33
- d. 12

11. What will be the output?

```
1. >>>t1 = (1, 2, 4, 3)  
2. >>>t2 = (1, 2, 3, 4)  
3. >>>t1 < t2
```

- a)True
- b)False
- c)Error
- d) None

TOPIC- Dictionary

1. What this error represents :-

TypeError: Unhashable type: 'list'

2. Find the errors & write its correct Statement.

Dict1={[4,2]:Adi, Rollno:123 Class:XII}

3. Predict the output :-

D={"a":1, "b":2, "c":3}

for i in range:

 print(i, ":", d.values(i))

4. Write the index of the following dictionary :-

d={"Name":"Adi", "Rollno":12102, "Class":"Xii"}

5. Find the errors :-

Dict={"Name":"Adi", "Name":"Sourav", "Class":Xii,
"16":"Age", "Income"]="1000", "Tax":1000}

6. Predict the output:-

```
>>>dict1={"a":1, "b":2, "c":3}  
>>>dict1["b"]  
>>>dict1["d"]=4  
>>>dict1
```

7. Give example of zip function.

8. Predict the output or find error if it has errors:-

```
Dict1= dict([["Name","Adi"], ["Rno",12102]])
```

9. Predict the output:-

```
dict1={“Adi”:{“Age”:15, “Salary”:50000},  
“Abhi”:{“Age”:17, ”Salary”:10000} }
```

for i in dict1:

```
    print(“Name”, ”:”, i, “-”)  
    print(“Age:”, str(dict[i][“Age”]))  
    print(“Salary:”, str(dict1[i][“Salary”]))
```

10. Write the functions of the following codes:-

```
<Dictionary>[<Key>]=<Value>
```

11. Write two different syntax to delete element from a dictionary.

12. Predict the output or find errors

```
>>>dict1={“Name”:"Adi", “Class”:"Xii"}  
>>>dict1.pop(“age”)
```

13. Give the output:-

```
dict1={“Name”:"Adi", “Age”:15, “Hobby”:"Yoga"  
“Roll.no”:12102}
```

a. “Hobby” in dict1 :-_____

b. “Age” not in dict1 :-_____

c. “Roll.no” in dict1 :-_____

14. Fill in the blanks :-

- The _____ of a dictionary must be of immutable types.
- Dict are also called _____ or _____ or _____
- Keys of dict must be _____

TOPIC - SQL (BASIC)

Q1. What does the abbreviation DBMS stand for?

- (a) Data Borrowing and Movement Software.
- (b) Database Management System.
- (c) Digital Base Mapping System.
- (d) Database Manipulation Software.

Q2. Which is not an advantage of DBMS is?

- (a) Database Systems reduce data redundancy
- (b) Database Systems control data inconsistency
- (c) Database Systems restrict sharing of data
- (d) Database Systems ensure data security.

Q3. In, the data is organized in to tables i.e. rows & columns.

- (a) Relational Model
- (b) Network Model
- (c) Hierarchical Model
- (d) Object Oriented Model

Q4. The essential features of Object Oriented Data Model are;

- (a) Object identity
- (b) Encapsulation
- (c) Data Abstraction
- (d) All of the above

Q5. Which statement is false in context to the term Relation?

- (a) Relation is a table storing logically related data.
- (b) Data must be atomic in cell
- (c) All rows of relation are distinct.
- (d) Ordering of rows & columns is relevant.

Q6. A row of relation generally referred to as and column of a relation is

- (a) Domain & Attribute
- (b) Attribute & Domain
- (c) Tuple & Attribute
- (d) Attribute & Tuple

Q7. A relation has 45 tuples & 5 attributes, what will be the Degree & Cardinality of that relation?

- (a) Degree 5, Cardinality 45
- (b) Degree 45, Cardinality 5
- (c) Degree 50, Cardinality 45
- (d) Degree 50, Cardinality 2250

Q8. _____ is the attribute or group of attributes that uniquely identify occurrence of each entity.

- (a) Foreign key
- (b) Super Key
- (c) Primary Key
- (d) All of these

Q9. A Candidate key that is not a primary key, is called

- (a) Alternate key
- (b) Foreign key
- (c) Primary key
- (d) Super Key

Q10. A non-key attribute, whose values are derived from primary key of some other table.

- (a) Alternate key
- (b) Foreign key
- (c) Primary key
- (d) Super Key

Q11. MySQL database system consists of-

- (a) MySQL Server Instance
- (b) MySQL Database
- (c) MySQL Query Optimizer
- (d) (a) & (b) both

Q12. Which commands are used to define or redefine schema objects?

- (a) DDL
- (b) DML
- (c) TCL
- (d) (a) & (b) both

Q13. Data definition includes:

- (a) Creating of data base
- (b) Undoing changes to the database.
- (c) Modification of data stored in the database.
- (d) All of the above

Q14. Which is not a TCL command?

- (a) Commit
- (b) Rollback
- (c) Exit
- (d) Savepoint

Q15. Which is not a function of DML?

- (a) Retrieval of data stored in the database
- (b) Insertion of data in to the database
- (c) Deletion of data from the database
- (d) Making changes permanent to the database.

Q16. Which is not a numeric type?

- (a) Int
- (b) Float
- (c) Blob
- (d) Double

Q17. The default date format in MySQL is:

- (a) DD/MM/YYYY
- (b) YYYY/MM/DD
- (c) MM-DD-YYYY
- (d) YYYY-MM-DD

Q18. Which is not a way to represent comment in MySQL?

- (a) /*-----*/
- (b) - -
- (c) #
- (d) //

Q19. The command is used to access database in MySQL is-

- (a) Open <dbname>;
- (b) USE <dbname>;
- (c) Access <dbname>;
- (d) (a) & (b) both

Q20. Which is a valid CREATE TABLE statement?

- (a) Create table emp add(id integer(3));
- (b) Create table emp (id integers(3));
- (c) Create table emp modified (id integer(3));
- (d) Create table emp (id integer(3));

Q21. How can you insert a new row into the “STORE” table.

- (a) INSERT ROW (1,’ RAM SINGH’) INTO STORE;
- (b) INSERT VALUES(1,’ RAM SINGH’) INTO STORE;
- (c) INSERT INTO (1,’ RAM SINGH’) STORE;
- (d) INSERT INTO STORE VALUES (1,’ RAM SINGH’);

Q22. Select statement has four clauses 1. Where 2.Having 3. Group By 4. Order by

The correct order of all clause in a select is :-

- (a) 1, 2, 3 & 4
- (b) 1, 3, 2 & 4
- (c) 1, 4, 3 & 2
- (d) 1, 3, 4 & 2

Q23. Conditionally retrieval of rows from a table with SELECT, which clause is used?

- (a) Where
- (b) Having
- (c) Group By
- (d) Order by

Q24. The key word eliminates duplicate rows from the result of a SELECT statement.

- (a) All
- (b) Unique
- (c) Distinct
- (d) IN

Q25. Which operator defines a range of values that the column values must fall in?

- (a) In
- (b) Like
- (c) Between
- (d) Is

Q26. To specify a list of values Operator is used.

- (a) In
- (b) Like
- (c) Between
- (d) Is

Q27. We use operator with select for condition based on pattern matching.

- (a) In
- (b) Like
- (c) Between
- (d) Is

Q28. Which SQL statement will not generate any error message?

- (a) SELECT * FROM EMP WHERE EMPNO LIKE (1,2,3,4);
- (b) SELECT * FROM EMP WHERE SAL BETWEEN 3000 TO 15000;
- (c) SELECT * FROM EMP WHERE COMM IS NOT NULL;
- (d) All of the above

Q29. To display the detail of employee having 'e' in their name in descending order of salary the correct SQL statement is :

- (a) SELECT * FROM emp WHERE ename LIKE 'e%' ORDER BY SAL ;
- (b) SELECT * FROM emp ORDER BY SAL DESC WHERE ename LIKE "%e%" ;
- (c) SELECT * FROM emp WHERE ename LIKE "%e%" ORDER BY DESC SAL;
- (d) SELECT * FROM emp WHERE ename LIKE "%e%" ORDER BY SAL DESC;

Q30. Which statement is valid?

- (a) ALTER TABLE EMPLOYEE MODIFY (last_name CHAR2(2000));
- (b) ALTER TABLE EMPLOYEE CHANGE (last_name CHAR2(2000));
- (c) ALTER TABLE EMPLOYEE CHANGE (last_name VARCHAR2 (2000));
- (d) ALTER TABLE EMPLOYEE MODIFY (last_name VARCHAR2 (2000));

SQL (ADVANCED)

Q1.functions operates on a single value to return a single value.

- (a) Multiple row
- (b) Aggregate
- (c) Single
- (d) Summation

Q2. Which is not a single row function?

- (a) Numeric functions
- (b) String functions
- (c) Date & time functions
- (d) Aggregate functions

Q3. Select CHAR(65, 65.1, 65.2) will display the output:

- (a) ABC
- (b) AAB
- (c) AZY
- (d) AAA

Note : Consider following table EMP and answer

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

Q4. SELECT CONCAT(CONCAT(ENAME," IS A"),JOB) FROM EMP WHERE EMPNO = 7369; will display the output.

- (a) CONCAT ENAME IS A JOB
- (b) CONCAT SMITH IS A JOB
- (c) SMITH IS A MANAGER
- (d) SMITH IS A CLERK

Q5. SELECT LOWER(CONCAT(ENAME, JOB) FROM EMP WHERE EMPNO = 7934; will give the output.

- (a) MILLER CLERK
- (b) Miller Clerk
- (c) millerclerk

(d) MillerClerk

Q6. SELECT UPPER(LOWER("FORD")) will display the out put.

- (a) FORD
- (b) Ford
- (c) ford
- (d) fORD

Q7. SELECT SUBSTRING('Quadratically',5); will display the out put.

- (a) ratically
- (b) Quadra
- (c) cally
- (d) none of the above

Q8. SELECT SUBSTRING('foobarbar' FROM 4); will display the out put.

- (a) 'barbar'
- (b) 'barba
- (c) barbar
- (d) rbar

Q9. SELECT SUBSTRING('Sakila', -3);will display the out put

- (a) 'Sa
- (b) Sak
- (c) ali
- (d) ila

Q10. SELECT SUBSTRING('Sakilakumari', -5, 3); will display the out put

- (a) lik
- (b) uma
- (c) aku
- (d) none of the above

Q11. SELECT SUBSTRING('Sakilakumari'FROM -4 FOR 2); will display the out put

- (a) ma
- (b) la
- (c) ik
- (d) amuk

Q12. Function removes trailing & Function removes leading spaces.

- (a) LTRIM, RTRIM
- (b) RTRIM, LTRIM
- (c) LTRIM, TRIM
- (d) RTRIM, TRIM

Q13. SELECT TRIM(LEADING 'x' FROM 'xxxbarxxx');will display the out put.

- (a) barxxx
- (b) xxxbar

- (c) bar
- (d) None

Q14. Write a query to remove leading and trailing x characters from string 'xxxbarxxx'.

- (a) Select TRIM(BOTH 'x' FROM 'xxxbarxxx');
- (b) SELECT LTRIM(RTRIM('xxxbarxxx', 'x'));
- (c) Select TRIM(LEADING 'x' FROM 'xxxbarxxx');
- (d) Select TRIM(TRAILING 'x' FROM 'xxxbarxxx');

Q15. Which function returns the position of the first occurrence of substring substr in string str.

- (a) SUBSTR
- (b) INSTR
- (c) MID
- (d) TRUNCATE

Q16. Which SELECT statement will give the result 'ello world' from the string 'Hello World'?

- (a) SELECT INITCAP (TRIM ('Hello World',1,1));
- (b) SELECT LOWER (SUBSTR ('Hello World',1,1));
- (c) SELECT LOWER (SUBSTR ('Hello World',2,1));
- (d) SELECT LOWER (TRIM ('H' FROM 'Hello World'));

Q17. SELECT INSTR('foobarbar', 'bar'); will display the output.

- (a) 3
- (b) 4
- (c) 2
- (d) 0

Q18. SELECT LENGTH(SUBSTRING('foobarbar' FROM 4)); will display the output.

- (a) 5
- (b) 6
- (c) 4
- (d) 7

Q19. SELECT LEFT('foobarbar', -5); will display the output.

- (a) fooba
- (b) arbar
- (c) rabra
- (d) no output will display

Q20. Which function returns the specified rightmost number of characters?

- (a) LTRIM
- (b) RTRIM
- (c) LEFT
- (d) RIGHT

Q21. Which function is a synonym of SUBSTR()?

- (a) INSTR

- (b) MID
- (c) TRUNCATE
- (d) NONE

Give the output of following statement using EMP table. The structure of EMP table is described earlier.

Q22. SELECT MOD(SAL,COMM) FROM EMP WHERE EMPNO =7499;will display the output.

- (a) 1
- (b) 100
- (c) 200
- (d) 0

Q23. SELECT POWER(COMM,2) FROM EMP WHERE EMPNO =7499;will display the output.

- (a) 300
- (b) 900
- (c) 60000
- (d) 90000

Q24. SELECT ROUND(SAL,-2) FROM EMP WHERE EMPNO = 7521;will display the output.

- (a) 1250
- (b) 1200
- (c) 1300
- (d) 1000

Q25. SELECT ROUND(145.2356,-2), ROUND(145.2356,2); display the out put

- (a) 145.23, 145.24
- (b) 100.23, 145.23
- (c) 100, 145.23
- (d) 100, 145.24

Q26. SELECT TRUNCATE (122.796, 2), TRUNCATE (122.796, -2); display the output.

- (a) 100, 122.79
- (b) 122.79, 100
- (c) 122.78, 100
- (d) 100, 122.78

Q27. Date & Time function allow us to manipulate on..... type data.

- (a) Numeric type
- (b) String type
- (c) Date type
- (d) All of the above

Q28. Select DAYOFMONTH('2013-01-30); display the output.

- (a) 01
- (b) 2013

- (c) 30
- (d) Wednesday

Q29. Write a query to display the current date & time.

- (a) SELECT NOW();
- (b) SELECT DATETIME();
- (c) SELECT DATE();
- (d) SELECT TIME();

Q30. Which function returns the name of the weekday.

- (a) DAYOFWEEK()
- (b) DAYNAME()
- (c) DAY()
- (d) NOW()

PYTHON PROGRAMS

1. Write a python program to add three numbers and print result
2. Write a python program to find average of 5 numbers
3. Write a python program to read marks in 6 subject and calculate total and percentage
4. Write a python program to convert temperature from Fahrenheit to Celsius
5. Write a python program to convert temperature from Celsius to Fahrenheit
6. Write a program to calculate Simple interest
7. Write a program to calculate area of Rectangle
8. Write a program to calculate area of Square
9. Write a program to calculate area of Circle
10. Write a program to calculate Perimeter of Rectangle