

Winter Vacation Holiday Homework

Class XI (2nd Shift)

Computer Science

1. Explain any three merits and three demerits of Python.
2. Give full form of Python's IDLE.
3. What do you mean by identifiers? Give any four rules to define an identifier.

What do you mean by comments? How will you add inline, single line or multiline comments in Python?

4. What is a block in python? How is a block created in Python, explain with example?
5. What do you mean by lvalue and rvalue? Give an example.
6. What are the core data types in Python?
7. "Strings are not mutable". Explain.
8. Compare strings, lists and tuples.
9. Differentiate Selection and iteration.
10. Write a program to find out whether a given year is leap year.
11. Write a program to calculate and print the roots of quadratic equation $ax^2+bx+c=0$. The program should display suitable message whether roots are real, equal, different or imaginary.
12. Write a program to calculate electricity charges based on number of consumed electricity units as per following conditions:

Units	Charges
Upto 100	Rs. 2 per unit
101 - 200	Rs. 200 + Rs. 3.5 per unit for units exceeding 100
201 - 300	Rs. 550 + Rs. 7.5 per unit for units exceeding 200
301 & above	Rs. 1300 + Rs. 9 per unit for units exceeding 300

13. Write a program to calculate BMI of a person after inputting its weight in kgs and height in meters and then print the nutritional status as per following table :

14. Nutritional Status	15. WHO criteria BMI cut-off
16. Underweight	17. less than 18.5
18. Normal	19. 18.5 to 24.9
20. Overweight	21. 25 – 29.9
22. Obese	23. 30 or above

Formula to calculate **BMI = weight in Kgms./ (height in meter)²**

14. Rewrite the following code fragment using while loop:

```
min = 0
max= num
if num < 0 :
    min = num
    max = 0
for i in range(min, max +1):
    sum +=i
```

15. Predict the output of the following code if value of a is entered as 5:

```
a = int( input("Enter break code ")) # line first
num = 10
while num> 0:
    sum += num
    num -= 2
    if num < a :
        break;
else :
    sum+= num
print( sum)
```

16. Write a program in Python with the help of loops to find out the substrings of a given string.

For eg, input of 'Cat' should display:

C Ca Cat a at t

HISTORY

1. LEARN ALL THE CHAPTER -1 TO 9.
2. REVISE THEME 6 TO 9 FOR SA-2 EXAM.
3. PREPARE PROJECT FILE FOR SA-2.
4. COMPLETE MAP WORK FROM THEME 1 TO 11.
5. SAMPLE QUESTION PAPER WILL BE SOLVED.

MATHS

1 PROBABILITY OF CLASS X LEVEL

2 MEAN ,MEDIAN,MODE

3 REVISION OF FOLLOWING TOPICS FOR PERIODIC TEST II

A . SEQUENCES AND SERIES

B . CONICS

C. 3D GEOMETRY

D. LIMITS AND DERIVATIVES

कक्षा - ग्यारहवी
सत्र 2018-19

प्रश्न 1 : निम्न लिखित विषयों में से किन्हीं दो विषयों में आलेख लिखिए।

भारत एक उभरती हुयी अर्थव्यवस्था
विश्व योग दिवस : भारत की एक नयी पहचान
नशा मुक्ति आज की आवश्यकता

इसके अतिरिक्त किसी दैनिक हिन्दी समाचार पत्र से दो नमूना आलेख काटकर अपनी अभ्यास पुस्तिका में चिपकाए।

प्रश्न 2 : निम्न लिखित विषयों में से किन्हीं दो विषयों में फीचर लिखिए।

किसी पर्वतीय स्थान की यात्रा
लता मंगेशकर : भारत की शान
लुप्तप्राय होते वन्यजीव

इसके अतिरिक्त किसी दैनिक हिन्दी समाचार पत्र से दो नमूना फीचर काटकर अपनी अभ्यास पुस्तिका में चिपकाए।

प्रश्न 3 : आपकी कालोनी में अनियमित बिजली आने जाने की समस्या से सभी निवासी परेशान हैं। इसे दूर करने के लिए विद्युत विभाग को पत्र लिखिए। और किसी लोकप्रिय हिन्दी दैनिक समाचार पत्र के संपादक को पत्र लिखिए जिसमें प्लास्टिक के प्रयोग से बढ़ते प्रदूषण के प्रति जन जाग्रति फैलाने का अनुरोध हो।

प्रश्न 4 : आपको पूर्व में दिये गए शोधपरक परियोजना कार्य को पूर्ण कीजिए।

प्रश्न 5: अभिव्यक्ति और माध्यम पुस्तक से पत्रकारिता विषय के निम्न प्रश्नों के उत्तर अपनी अभ्यास पुस्तिका में लिखिए।

पत्रकारिता के विभिन्न प्रकार
खोजपरक पत्रकारिता / पेज श्री पत्रकारिता / सनसनीखेज पत्रकारिता
संपादकीय किसे कहते हैं
हस्ताक्षरित संपादकीय से क्या समझते हैं
संचार के प्रमुख भेद बताइए।
संचार आरेख से क्या समझते हैं।

प्रश्न 6 : आवधिक परीक्षा II हेतु निर्धारित पाठों के प्रश्न उत्तर तैयार कीजिए।

ENGLISH

1. Prepare PT 2 syllabus.
2. Read English Newspaper daily.
3. Listen to the English News daily.
4. Draw the following character sketches in your note books.
 - a) Mrs Pearson
 - b) Mrs Fitzgerald
 - c) Mr George Pearson
 - d) Cyril Pearson
 - e) Doris Pearson
 - f) Mr Crocker Harris
 - g) Mr Frank
5. What do you gather about Agha Shahid Ali from the lesson ' The Ghat of The only world's?

6. Write a job application with resume for the post of an Assistant Manager in a reputed firm.

CHEMISTRY

1. Investigation Project
2. Revision of Exercise of NCERT
 - Redox Reaction
 - Hydrogen and its compounds
 - S-Block elements and their important compounds
 - P-block element and their important compounds.

ECONOMICS

1. PREPARE FOR PERIODIC TEST II FROM THE FOLLOWING CHAPTERS –
COST, REVENUE, PRODUCER' S EQUILIBRIUM, SUPPLY AND THE MEASURE OF DISPERSION FROM STATISTICS.
2. STUDY THE CHAPTER OF PRICE DETERMINATION AND SIMPLE APPLICATIONS AND FIND OUT THE ANSWERS OF THE FOLLOWING QUESTIONS—
 - a) WHAT IS MARKET EQUILIBRIUM ?
 - b) EXPLAIN EXCESS DEMAND WITH THE HELP OF DIAGRAM.
 - c) EXPLAIN THE EXCESS SUPPLY WITH THE HELP OF DIAGRAM.
 - d) EXPLAIN THE CHANGE WHEN SUPPLY INCREASES.
3. SOLVE 5-5 NUMERICALS OF RANGE, QUARTILE DEVIATION ,MEAN DEVIATION, STANDARD DEVIATION.

Subject- Physics

Q-1 Complete your project for “Science Exhibition”.

Q-2 Make PPTs on Oscillations.

Q-3 Make a notes on Ray Optics

Q-4 Collect the information regarding the satellites launched by ISRO recently. Make separate file for this assignment atleast of 15 pages and paste newspaper cuttings also.

Q-5 Do the exercise of Chapter- Thermodynamics.

Class XI (Biology)

1. Prepare an investigatory project and complete your record file.
2. Prepare a scrap book by pasting articles on biology from newspaper published from 24/12/18 to 02/01/19.
3. Learn and revise five chapters of plant physiology for PT-2.