NEO CONVENT SR. SEC. SCHOOL , PASCHIM VIHAR NEW DELHI-63

SESSION 2026 -2027-CLASS-XI (SCIENCE STREAM)

SUMMER HOLIDAY ASSIGNMENT

Dear Students

The beginning of new session might not have been with pomp and show, but the spirit of teaching learning continues. The summer vacations time can be utilized in learning new skills and hobbies. Utilize your time productively.
Here are some activities suggested for creative utilization of time. Give a flight to your imagination and spend time purposely.

- Holiday Homework is a part of subject enrichment and will be assessed on the basis of creativity and efforts of the students.
- Its the perfect time to enhance your speaking skills and vocabulary and improve your handwriting.
- converse in English with your family and siblings.
- Reading is essential for those who seek to rise above the ordinary.
- Read story books to improve your literary skills.

ENGLISH -XI

Q1. Make a project of 20-25 pages with appropriate pictures on the topics as discussed in the class.

Students must organize their project file in the following order-

Project Format

1. **Cover Page**
   - **Title of the project**
   - **Name, Class, Section, Roll Number**
   - **Subject and School Name**
2. **Acknowledgement**
3. **Index**
4. **Introduction**
5. **Main Content (Detailed below)**
6. **Conclusion**
7. **Bibliography**

Q2 COMPLETE THE ASSIGNMENT UPLOADED ON THE PORTAL.

Class – 11 (MATHS)

Do all NCERT examples and questions of below mentioned chapters:

Chap 1 (Sets), Chap 2 (Relations and Functions),Chap 13 (Statistics) and Chap 5 (Linear Inequalities).

[Do in a separate register]

Physics

1. Do the assignments put on the school website.
2. Learn the first Four chapters (till equation of motion) thoroughly and practice numerical.
3. Derive three equation of motion graphically and by calculus method.
4. Make ppt on difference of architecture of buildings in Sikkim versus Delhi.

Chemistry

1. Solve the assignments uploaded on the school website.
2. Revise chapter 1 AND 2 and solve NCERT Exercise.
3. Complete Project File and memorise Salt Analysis.
4. Make ppt on Soil Analysis of Delhi and Sikkim region.

CLASS XI (BIOLOGY)
HOLIDAYS HOMEWORK

1. Make a **RESEARCH PROJECT** on the topic discussed in the class. The project should be handwritten and with proper pictures, diagrams and observations.
2. Make a portfolio of the diagrams of Text Book as discussed in the class.
3. Make a PowerPoint presentation/Record File regarding NEET EXAM PATTERN, SYLLABUS AND SELECTION CRITERIA**.**
4. **MORPHOLOGY AND ANATOMY OF FROG**
5. Make a PowerPoint presentation comparison between Flora and Fauna of Delhi and Andaman & Nicobar Islands

CLASS XI (M.D)

1. Make the project on the topic discussed in the class .

HOLIDAY HOME WORK

CLASS: 11th PHYSICAL EDUCATION

SESSION 2026 -2027

TO BE PREPARE PRACTICAL FILE FOR BOARDS EXAMINATION.

1) FITNESS TEST ADMINISTRATION.

   SAI khelo India test.

2) Procedure for asanas, Benefits and contraindication for any two asanas for each life style disease.

3) Any one IOC recognised Sports \ games (volley ball). Labelled diagram of field and Equipment. Also mention its Rules terminologies and Skills.

4) Write the winners list of Paralympics and Olympics.

Holiday Homework – Class 11 IP

Topics: Python Data Handling & Flow of Control

Section A: Multiple-Choice Questions (20×1 = 20 marks)
Choose the correct option.

1. Which of the following is **not** a valid data type in Python?
   a) int
   b) float
   c) double
   d) bool

2. What is the data type of `a = 4.5`?
   a) int
   b) float
   c) str
   d) bool

3. Which of the following literals represents a string?
   a) 42
   b) 3.14
   c) "Hello"
   d) True

4. Which operator is used for **floor division** in Python?
   a) /
   b) //
   c) %
   d) **

5. What will be the value of `x` after `x = 5; x += 3`?
   a) 5

b) 8
c) 15
d) 3

6. Which of the following is a **compound statement** that controls the flow of program?
   a) print()
   b) if-else
   c) input()
   d) import

7. Which statement is used to **terminate a loop immediately**?
   a) continue
   b) break
   c) pass
   d) exit()

8. The continue statement in a loop:
   a) exits the loop
   b) skips the current iteration and continues with next
   c) pauses the program
   d) produces an error

9. Which of the following syntax is correct for a simple if-statement?
   a) if a > 5:
   b) if (a > 5)
   c) if a > 5
   d) if{a > 5}

10. In a for loop, range(3) generates:
    a) 0, 1, 2
    b) 1, 2, 3
    c) 0, 1, 2, 3
    d) 3

11. Which of the following is a valid identifier in Python?
    a) my_var
    b) 1var
    c) for
    d) my-var

12. What is the output of print(10 // 3)?
    a) 3.33
    b) 3
    c) 4
    d) 1

13. Which operator is used to check **equality** in Python?
    a) =
    b) ==
    c) !=
    d) <>

14. The elif clause in Python is used with:
    a) while
    b) for

c) if
d) def

15. Which of the following is a **sequence** data type in Python?
    a) int
    b) float
    c) str
    d) bool

16. Which of the following is **not** an assignment operator?
    a) +=
    b)-=
    c) ==
    d) *=

17. The while loop is:
    a) entry-controlled
    b) exit-controlled
    c) unconditional
    d) non-iterative

18. What will this produce: print("A" * 3)?
    a) AAA
    b) A 3
    c) A A A
    d) 3A

19. Which of the following is a **logical operator**?
    a) +
    b)-
    c) and
    d) /

20. Which of the following correctly creates an infinite loop in Python?
    a) while True:
    b) while False:
    c) for i in range(0):
    d) for i in ():

Section B: Output-Based Questions (10×1 = 10 marks)

Write the output of the following Python snippets.

21.

```
a = 10
b = 3
print(a // b, a % b)
```

22.

```
x = 1
while x < 4:
    print(x, end=" ")
```

```
    x += 1
```

23.

```
for i in range(2, 6):
    print(i, end="-")
```

24.

```
n = 5
if n % 2 == 0:
    print("Even")
else:
    print("Odd")
```

25.

```
s = "Hi"
print(s * 2)
```

26.

```
for i in range(5, 0, -1):
    print(i, end=" ")
```

27.

```
x = 10
if x > 5:
    print("A")
else:
    print("B")
print("C")
```

28.

```
a, b = 2, 3
print(a ** b)
```

29.

```
for i in range(1, 4):
    if i == 2:
        continue
    print(i, end=" ")
```

30.

```
count = 0
for i in range(1, 4):
    count += i
print(count)
```

Section C: Programming-Based Questions (10×3 = 30 marks)

Write Python programs for the following. Assume suitable variable names and include comments if needed.

31. Write a Python program to input two numbers and print their sum, difference, product, and quotient. [Data types, arithmetic operators]

32. Input marks of 3 subjects (each out of 100) and calculate and display the total marks and percentage. [Data handling, operators]

33. Write a program to input a number and check whether it is **positive, negative, or zero**. Use if-elif-else. [Flow of control]

34. Write a program to input a number and check whether it is **even or odd**. [Conditional statement]

35. Write a program to input the length and breadth of a rectangle and calculate and display its area and perimeter. [Data handling]

36. Write a program that prints the **first 10 natural numbers** using a `for` loop. [Flow of control: loops]

37. Write a program that prints the **multiplication table of a number entered by the user** (from 1 to 10). [Looping]

38. Write a program to print all numbers from 1 to 50 that are **divisible by 5**. [Looping with condition]

39. Write a program that takes a number from the user and prints the **sum of all natural numbers from 1 to that number**. [for/while loop]

40. Write a program that takes a number from the user and prints whether it is **prime or not** (consider only positive integers greater than 1). [Flow of control, nested loops/condition]

HOLIDAY HOMEWORK – CLASS 11 (COMPUTER SCIENCE)

Section A: Multiple-Choice Questions (20×1 = 20 marks)

1. Which of the following is **not** a valid binary number?
   a) 1010
   b) 1210
   c) 1111
   d) 0000

2. The decimal equivalent of binary `1101` is:
   a) 12
   b) 13
   c) 14
   d) 15

3. The hexadecimal digit `A` represents decimal:
   a) 9

b) 10
c) 11
d) 12

4. Which of the following is **not** a valid data type in Python?
   a) int
   b) float
   c) double
   d) bool

5. What is the data type of `a = 4.0`?
   a) int
   b) float
   c) str
   d) bool

6. Which of the following literals is a **string**?
   a) 42
   b) 3.14
   c) "Hi123"
   d) True

7. Which operator is used for **modulus** in Python?
   a) /
   b) //
   c) %
   d) **

8. The expression `print(10 // 3)` gives:
   a) 3.33
   b) 3
   c) 4
   d) 1

9. The expression `print(2 ** 3)` evaluates to:
   a) 6
   b) 8
   c) 9
   d) 12

10. Which of the following is **not** a logical operator in Python?
    a) and
    b) or
    c) not
    d) ==

11. The expression `False and True or True` evaluates to:
    a) False
    b) True
    c) None
    d) Error

12. The expression `not (True and False)` evaluates to:
    a) True
    b) False

c) None
d) Error

13. The expression (5 > 3) and (2 < 1) is:
    a) True
    b) False
    c) None
    d) 5

14. The expression (10 == 10) or (5 > 6) is:
    a) True
    b) False
    c) None
    d) 10

15. The expression not (7 <= 6) is:
    a) True
    b) False
    c) None
    d) 7

16. If a = 5 and b = 10, then a < b and b > 8 is:
    a) True
    b) False
    c) None
    d) 10

17. If p = True and q = False, then p or q and not q is:
    a) True
    b) False
    c) None
    d) Error

18. The break statement is used to:
    a) skip the current iteration
    b) terminate the loop immediately
    c) pause the program
    d) jump to the next loop

19. The continue statement inside a loop:
    a) exits the loop
    b) skips the current iteration and continues with the next
    c) doubles the loop variable
    d) causes a syntax error

20. The expression print(15 % 4) evaluates to:
    a) 3
    b) 1
    c) 2
    d) 0

Section B: Output-Based Questions (10×1 = 10 marks)

21.

```
x = 15
y = 2
print(x // y, x % y)
```

22.

```
a = 10
b = 3
c = a ** b
print(c)
```

23.

```
n = 0
while n < 4:
    print(n, end=" ")
    n += 2
```

24.

```
for i in range(3, 7):
    print(i, end=",")
```

25.

```
s = "X"
print(s + s * 2)
```

26.

```
a = 10
b = 5
print(a > b and b > 3)
```

27.

```
x = 7
y = 3
print((x > y) or (y > 10))
```

28.

```
p = True
q = False
print(not p and q)
```

29.

```
n = 7
if n % 2 == 0 or n > 5:
    print("X")
else:
    print("Y")
```

30.

```
flag = False
count = 5
if count > 3 or flag:
    print("Allowed")
else:
    print("Restricted")
```

Section C: Programming-Based Questions (10×3 = 30 marks)

31. Convert a given **binary number (as string)** into its **decimal equivalent**. Example: input "1101", output 13. Use loops and basic arithmetic.

32. Input a **decimal number** and convert it into its **binary equivalent** using repeated division. Print the binary digits in correct order (store digits in a string and then print).

33. Input three numbers and check if **all three are positive** using and operator. Print "All positive" or "Not all positive".

34. Input age and check eligibility for a license:
    - If age is **between 18 and 65 (inclusive)**, print "Eligible"
    - Otherwise, print "Not eligible"
      Use and in your condition.

35. Input marks in three subjects (each 0–100).
    - If **any subject is below 33**, print "Fail"
    - Otherwise, print "Pass"
      Use or in your condition.

36. Input two integers and print their **HCF (GCD)** using Euclidean algorithm (while loop + repeated modulo operation).

37. Input a number and print all **divisors** of that number (excluding itself) using a loop and modulus.
38. Input a number n and print the **sum of squares of first n natural numbers** (e.g., for n=3 → $1^2 + 2^2 + 3^2 = 14$).
39. Input a **4-digit binary string** and check whether it represents an **even number** by looking at the last bit. Print "Even" or "Odd".
40. Input age and income:
    - If age **≥ 18** and income **≥ 10000**, print "Eligible"
    - Else if age **≥ 18** and income **< 10000**, print "Low income"
    - Else, print "Not eligible"
      Use and, or, and not in your conditions.

CLASS: 11th PHYSICAL EDUCATION

SESSION 2026 -2027

TO BE PREPARE PRACTICAL FILE FOR BOARDS EXAMINATION.

1) FITNESS TEST ADMINISTRATION.

   SAI khelo India test.

2) Procedure for asanas, Benefits and contraindication for any two asanas for each life style disease.
3) Any one IOC recognised Sports \ games (volley ball). Labelled diagram of field and Equipment. Also mention its Rules terminologies and Skills.
4) Write the winners list of Paralympics and Olympics.

****