



# SHRI GURU NANAK H/S PUBLIC SCHOOL

## Summer Holiday Homework (2024-25)

### Class-XI Science

- Holidays homework of all the subjects will be done as directed in each subject.
- Last date of the submission of holiday homework is 4 July 2024.
- School will reopen on 1 July 2024.

### ENGLISH

Q1. Write article on each of the following topics in 150-200 words,

1. Swachh Bharat
2. Internal security
3. Cashless India
4. Indian tourism
5. Social media

### PHYSICAL EDUCATION

1) Do at least 5 MCQ's, Long answer questions, Short answer question, Assertion reason questions and case based questions from the following chapters.

|           |  |
|-----------|--|
| Chapter 1 | Changing trends and career in physical education |
| Chapter 2 | Olympism value education                         |
| Chapter 3 | Yoga   |

2) Prepare lab manual (5 games)

3) Prepare 2 Spiral class binded Files (Specific game & Yoga)

4) Practice Physical Fitness activities For 30 minutes daily:

\*Sit ups 100      \*Push ups = 60      \*Duck race & Frog jump = 5 min.

5) Prepare Ch-7 Fundamentals of Anatomy and Physiology in sports.

### PHYSICS

PREAPRE A PROJECT REPORT ON:-

|                        |                                   |
|------------------------|-----------------------------------|
| Roll. No. (1 to 09)    | Work energy and power Gravitation |
| Roll. No. (10 to 19)   | Gravitation                       |
| Roll. No. (20 to 29)   | Thermodynamics                    |
| Roll. No. (30 to last) | Oscillation and wave              |

Beside it all the students have to solve five unsolved numerical from each of the following topics in separate test note book.

(1) From Dimensions:-

- (i) To check the correctness of physical equation.
- (ii) Conversion of one system of unit to another system.
- (iii) To establish relation among the physical quantities.

(2) From Differentiation and Integration.

### CHEMISTRY

1. Make a project on any one of the following topics:

- (i) Some basic concepts of chemistry
- (ii) Structure of Atom

2. Beside it, all the students have to solve five unsolved numerical from each of the following topics in separate test note book.

(i) Mole concept                      (ii) Stoichiometry of reaction                      (iii) Bohr's atomic model

### BIOLOGY

1. Lab Manual - Do Experiments and spotting as discussed in class (draw diagrams with pencil only).

2. Prepare a project file on the given topics:

- \*Breathing and Exchange of Gases
- \*Body Fluids and Circulation
- \* Excretory Products and their Elimination

3. Revise and learn Ch- 1, 2, 3 and 4

## MATHEMATICS

1. To verify that the function of two sets A&B.  $n(A \times B) = p \cdot q$  and the total number of relations from A to B is  $(2)^{p \cdot q}$ .
2. To verify distributive law function 3 given non empty sets A,B&C  
 $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$
3. To identify a relation and a function.
4. To plot the graph of sine x and cos x. Some coordinate axes.
5. Prepare the chapter - Relation and function

## INFORMATICS PRACTICES

1. Which of the following is correct about Python?
  - A. Python is a high-level, interpreted, interactive and object-oriented scripting language.
  - B. Python is designed to be highly readable.
  - C. It uses English keywords frequently where as other languages use punctuation, and it has fewer syntactical constructions than other languages.
  - D. All of the above
2. Which of the following is correct about Python?
  - A. It supports functional and structured programming methods as well as OOP.
  - B. It can be used as a scripting language or can be compiled to byte-code for building large applications.
  - C. It provides very high-level dynamic data types and supports dynamic type checking.
  - D. All of the above.
3. Which of the following is correct about Python?
  - A. It supports automatic garbage collection.
  - B. It can be easily integrated with C. C++. COM, ActiveX, CORBA, and Java.
  - C. Both of the above.
  - D. None of the above.
4. Is python a case sensitive language?
  - A. true
  - B. false
- 5-Which of the following data types is not supported in python?
  - A. Numbers
  - B. String
  - C. List
  - D. Slice
- 6-Which of the following data types is not supported in python?
  - A. Tuple
  - B. Dictionary
  - C. Generics
  - D. List
- 7- What is the output of print str if str = 'Hello World!'?
  - A. Hello World!
  - B. Error
  - C. str
  - D. None of the above.
8. Is Python case sensitive when dealing with identifiers?
  - a) yes
  - b) no
  - c) machine dependent
  - d) none of the mentioned
9. What is the maximum possible length of an identifier?
  - a) 31 characters
  - b) 63 characters
  - c) 79 characters
  - d) none of the mentioned
10. Which of the following is invalid?
  - a) a = 1
  - b) a = 1
  - c) str -1
  - d) none of the mentioned
11. Which of the following is an invalid variable?
  - a) my\_string\_1
  - c) foo
  - b) 1st\_string
  - d) \_\_
12. Why are local variable names beginning with an underscore discouraged?
  - a) they are used to indicate a private variables of a class
  - b) they confuse the interpreter
  - c) they are used to indicate global variables
  - d) they slow down execution
13. Which of the following is not a keyword?
  - a) eval
  - b) assert
  - c) nonlocal
  - d) pass
14. All keywords in Python are in
  - a) lower case
  - b) UPPER CASE
  - c) Capitalized
  - d) None of the mentioned
15. Which of the following is true for variable names in Python?
  - a) unlimited length
  - b) all private members must have leading and trailing underscores
  - c) underscore and ampersand are the only two special characters allowed
  - d) none of the mentioned
16. Which of the following is an invalid statement?
  - a) abc=1,000,000
  - b) a b c= 1000, 2000, 3000
  - c) a.b.c 1000, 2000, 3000
  - d) a\_b\_c=1,000,000
17. Which of the following cannot be a variable?
  - a) \_\_init\_\_
  - b) in
  - c) it
  - d) on

