

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

- 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
- 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).
- 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

<u>MATHEMATICS</u>		
1. To verify that the function of two sets A&B. n (AxB)=p.q and the total number of relations from A to B is (2) ^{p.q.}		
2. To verify distributive law function 3 given non empty sets A,B&C		
$AU (B \cap C) = (AUB) \cap (AUC)$		
3. Two 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		
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? b) no a) yes 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 = 1c) 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?

b) in

d) on

a) ___init___

c) it

a) X^Y	b) X**Y	
c) X^^Y	d) None of the mentioned	
19. Which one of these is floor	·	
a) /	b) //	
c) %	d) None of the mentioned	
20. What is the order of preced	·	
i) Parentheses	ii) Exponential	
iii) Multiplication	iv) Division	
v) Addition	vi) Subtraction	
a) I,ii,iii,iv,v,v		
b) ii,i,iii,iv,v,v		
c) ii,l,iv,iii,v,vi		
d) i,ii,iii,iv,vi,v		
21. What is answer of this expr	ession. 22% 3 is?	
a) 7	b) 1	
c) 0	d) 5	
22. Mathematical operations c	n be performed on a string. State whether true or late.	
a) True	b) False	
23. Operators with the same p	ecedence are evaluated in which manner?	
a) Left to Right	b) Right to Left	
c) Cant say	d) None of the mentioned	
24. What is the output of this ϵ	pression. 3"1"*3?	
a) 27	b) 9	
c) 3	d) 1	
25. Which one of the following		
a) Addition and Subtra		
c) Both a and b	d) None of the mentioned	
26. The expression Int(x) Implie a) True b) Fa	s that the variable x is converted to integer. State whether true or false. Ise	
27. Which one of the following	nave the highest precedence in the expression?	
a) Exponential	b) Addition	
c) Multiplication	d) Parentheses	
	Descriptive Questions.	
	different data types using variables and litera constants.	
The state of the s	ut function is performed in python with example.	
	rious operators in python with suitable examples	
T	ulated explain with an example.	
	ite student result based on two examinations, c sports event and three activities conducted. The	e
weightage of the activity 30%,	ports =20%, and examination=50%	
weightage of the activity 30%,	ports - 20%, and examination - 50%	