

SANSKAR CITY INTERNATIONAL SCHOOL RAJNANDGAON

HOLIDAY HOMEWORK

SUBJECT: - BIOLOGY

CLASS: - XI(SC)

Q1. Make a herbarium file of medicinal herbs found at chhattisgarh.

SANSKAR CITY INTERNATIONAL SCHOOL RAJNANDGAON

HOLIDAY HOMEWORK

SUBJECT: - PHYSICS

CLASS: - XI(SC)

Q1. Describe the scope and various branches of physics.

Investigatory Projects: -

Perform anyone out of the following.

1. Describe the construction and working of boat using the Archimedes principle.
2. How pascal's law is used to construct a hydraulic machine, describe the detail working and construction of it?
3. What is Bernoulli's equation? How it is used in venturi meter to find the speed of fluid flow?
4. Describe the construction and working of Open and close organ pipe with various modes of vibrations

CLASS-XI
ASSIGNMENT-2

SUBJECT-MATHEMATICS
TOPIC – SETS

Q1. If $A = \{1, 2, 3, 4, 5\}$, $B = \{4, 5, 6, 7, 8\}$, $C = \{7, 8, 9, 10, 11\}$ and $D = \{10, 11, 12, 13, 14\}$. Find (i) $A \cup B$ (ii) $B \cup C$ (iii) $A \cap C$ (iv) $A \cap D$ (v) $A \cap B$

Verify the following

- (i) $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$
- (ii) $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$
- (iii) $A \cap (B - C) = (A \cap B) - (A \cap C)$

Q2. Let $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$, $A = \{2, 4, 6, 8\}$ and $B = \{2, 3, 5, 7, 8\}$. Find (i) A' (ii) (A') (iii) $(A \cup B)'$ (iv) $(A \cap B)'$

Verify the following

- (i) $(A \cup B)' = A' \cap B'$ (ii) $(A \cap B)' = A' \cup B'$ (iii) $B - A = B \cap A'$

Q3. Let A and B be two sets such that $n(A) = 24$, $n(A \cup B) = 46$ and $n(A \cap B) = 8$. Find (i) $n(B)$ (ii) $n(A - B)$ (iii) $n(B - A)$

Q4. What is the number of subsets and proper subsets of a set containing n -elements.

Q5. In a survey of 800 students in a school 200 were listed as taking apple juice, 250 taking orange juice and 125 were taking both apple as well as orange juice. Find how many students were taking neither apple juice nor orange juice.

Q6. There are 40 students in a chemistry class and 60 students in a physics class. Find the number of students which are either in the physics class or the chemistry class in the cases.

- (i) the two classes meet at the same hour.
- (ii) the two classes meet at different hours and 20 students are enrolled in both the subjects.

Q7. In a class of 35 students, 17 have taken mathematics, 10 have taken mathematics but not economics. Find the number of students who have taken both mathematics and economics and the number of students who have taken economics but not mathematics, if it is given that each student has taken either mathematics or economics or both.

Q8. If $A = \{x : x = 2n + 1, n \leq 4, n \in \mathbb{N}\}$ and $B = \{y : 2 < y < 7, y \in \mathbb{N}\}$, find (i) $A \cap B$ (ii) $A \cup B$ Q9.

Using laws of algebra of sets, show that (i) $(A \cup B) \cap (A \cup B)' = A$ (ii) $A \cup (B - A) = A \cup B$

Q10. Of the members of three athletic teams in a certain school, 21 are in the basketball team, 26 in the hockey team and 29 in the football team. 14 play hockey and basketball, 15 play hockey and football, 12 play football and basketball and 8 play all the three games. How many members are there in all?

Q11. If $A = \{a, b, c\}$, write subsets of set A . Also mention the proper subsets of A .

Q12. Describe the following sets in set builder form :- (i) $\{1, \underline{1}, \underline{1}, \underline{1}\}$ (ii) $\{3, 6, 9, \dots\}$
2345

Q13. Write the following intervals in set-builder form:-
(i) $(-6, 0)$ (ii) $(2, 5]$ (iii) $[-20, 3)$ (iv) $[5, 10]$

Q14. Draw a Venn diagram of (i) $(A \cup B)' \cap C$
(ii) $(A - B)' \cap (B - A)'$ (iii) $A - (A \cup B)$

Q15. How many elements has $P(A)$, if $A = \{\}$

Q16. If A is a subset of $\{\}$. Prove that $A = \{\}$.

Q17. Find the smallest set A such that
 $A \cup \{3, 5\} = \{1, 2, 3, 5, 4\}$

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SANSKAR CITY INTERNATIONAL SCHOOL, RAJNANDGAON. (C. G.)

SUMMER VACATION ASSIGNMENT: 2024

CLASS: 11(ENGLISH)

ASSIGNMENT 1:

Write a SPEECH on "ADDICTION TO MOBILE PHONES IS BECOMING A CAUSE OF CONCERN TODAY"

HINTS:

Problems

- ▶ Preoccupation and compulsion of mobile use
- ▶ Withdrawal symptoms such as irritation, anxiety and depression when stopped

Solutions:

- ▶ Set limit for usage
- ▶ Turn your phone off
- ▶ Practice mindfulness
- ▶ Engage in physical activities.

Students are required to make a 'hard copy' in their English text copy. **Thereafter, they are required to make a Presentation in the form of video / PPT and send it.**

ASSIGNMENT 2:

Students should find at least **3 new WORDS each day**, (Monday to Friday); their meanings and usage with examples. On every Saturday, they are required to click the words written and post to the subject teacher, without fail. WHATSAPP NO: 9993690780 M.BARLA

Note: ATTRACTIVE PRIZE WAITS FOR THE BEST!



SANSKAR CITY INTERNATIONAL SCHOOL

Vacation Assignment(2024-2025)

Class -XI

Date: 18/04/2024

Subject - Informatics Practices

Q.1 Create the following table.

Table:EXAM

NO	Name	Stipend	Subject	Average	Division
1	Mohan	400	English	65	FIRST
2	Kamal	600	Mathematics	72	SECOND
3	Javed	200	Physics	80	FIRST
4	Ramesh	800	Chemistry	40	THIRD
5	Praveen	400	Accounts	35	SECOND

Write the SQL queries for the following.

- To display the name of those students , who have obtained Division as FIRST in the ascending order of NAME.
- To display a report listing NAME, SUBJECT and Annual Stipend received assuming that the stipend column has monthly stipend.
- To insert a new row in the table EXAM:
6, "Karan", 500 , "Informatics" ,45, "SECOND"
- To display the name and subject of those student whose average is greater than 60

Q.2 Create the following table.

Table: Result

Adno	SName	Percentage	Clsection	Stream
R001	Sushant	95	12A	Science
R002	Vikas	90	12B	Commerce
R003	Manoj	70	12A	Commerce
R004	Shiva	80	12C	Science
R005	Suresh	50	12D	Humanities

Write the SQL queries for the following.

- To display all information of the students of humanities in ascending order of percentage.
- To display Adno, Name, Percentage and Stream of those students whose name end with 'j'.
- To add another column Bus_Fees with data type and size as Decimal (8,2).
- To increase percentage by 2% of all the humanities students.
- To display the name and percentage of those students whose percentage in the range 80 to 100.

Q.3 Create the following table.

Table: SOFTDRINK

DRINK CODE	DName	PRICE	CALORIES
101	Lime and Lemon	20	120
102	Apple Drink	18	125
103	Nature Nectar	15	140
104	Green Mango	15	135
105	Aam Panna	18	120
106	Mango and Juice Bahaar	12	150

Write the SQL queries for the following.

- (i) To display names and drink codes of those drinks that have more than 120 calories.
- (ii) To display drink codes ,names and calories of all drinks in descending order of calories.
- (iii) To display names and price of drinks that have price in the range 12 to 18.
- (iv) Increase the price of all drinks in the given table by 10%
- (v) To display name of drink whose name start with 'A' .
- (vi)

Q.4 Write SQL commands for the following on the basis of given table Teacher:

Table : Teacher

No.	Name	Age	Department	Dateofjoin	Salary	Zender
1.	Jugal	34	Computer	10/01/97	12000	M
2.	Sharmila	31	History	24/03/98	20000	F
3.	Sandeep	32	Maths	12/12/96	30000	M
4.	Sangeeta	35	History	01/07/99	40000	F
5.	Rakesh	42	Maths	05/09/97	25000	M
6.	Shyam	50	History	27/06/98	30000	M
7.	Shiv Om	44	Computer	25/02/97	21000	M
8.	Shalakra	33	Maths	31/07/97	20000	F

- (i) To show all information about the teacher of history department.
- (ii) To list the names of female teachers who are in Hindi department.
- (iii) To list names of all teachers with their date of joining in ascending order.

SANSAR CITY INTERNATIONAL SCHOOL RAJNANDGAON

HOLIDAY HOMEWORK

SUBJECT- HINDI

CLASS - 11TH (SCI)

- 1-भक्तिकाल के प्रमुख कवियों की संक्षिप्त जीवनी प्रसिद्ध रचनाएँ चार्ट में लिखें। सम्भव हो तो चित्र भी लगाएँ।
- 2-कश्मीर से कन्या कुमारी तक भारत एक है, यह भारतीय व्यंजनों में भी दृष्टिगोचर है, प्रांतीय विभाजन कर भारतीय व्यंजनों का चार्ट बनाए।
- 3-अपने बड़े भाई को एक पत्र लिखें जिसमें कक्षा दसवीं के परीक्षा परिणाम की व्यग्रता एवं ग्यारहवीं की पढ़ाई का विवरण हो।
4. अपना पोर्टफोलियो तैयार करें।