Scholars Global School

HOLIDAY HOMEWORK-MATHS

CLASS XII- (2023-24)

CHAPTER-1

RELATIONS & FUNCTIONS

Q1 Let n be a fixed positive integer. Define a relation R on Z as follows (a, b) $\in$ R $\Leftrightarrow$ a-b is divisible by n. Show that R is an equivalence relation on z.

Q2. Let z be the set of integers show that the relation
R = [a, b) : a, b $\in$ $\square$z and a + b is even] is an equivalence relation on z.

Q3. Let S be a relation on the set R of real numbers defined by
S = [(a, b) $\in\square$R x R : $a^2 + b^2 = 1$} prove that S is not an equivalence relation R.

Q4. Show that the relation R on the set R of real numbers defined as
R = [(a, b) : : $a < b^2$] is neither reflexive nor symmetric nor transitive.

Q5. Show that the relation R on R defined as R = [(a, b) : a $\leq$] is reflexive and transitive but not symmetric.

Q6. Show that f : R $\rightarrow$ R, defined as $f(x) = x^3$, is a bijection.

Q7. Show that the modulus function f R $\rightarrow$ R, given by f(x) = [x] is neither one-one nor on-to.

Q8. Show that the function of F : R$\rightarrow$R given by $f(x) = x^3 + x$ is a bijection.

Q9. Let A = R –[2] and B = B-[1]. If f : A $\rightarrow$ B is a mapping defined by f(x) $\frac{x-1}{x-2}$, show that f is bijective.

Q10. Show that f: R$\rightarrow$R, given f(x) = x – [x], is neither one-one or onto.

Q11. Ret f(x) = [x] and g(x) = [x], Find

(i) $(gof)\left(\frac{-5}{3}\right) - (fog)\left(\frac{-5}{3}\right)$ (ii) $(gof)\left(\frac{5}{3}\right) - (fog)\left(\frac{5}{3}\right)$ (iii) (f+2g) (-1)

Q12. If $f(x) = \frac{3x-2}{2x-3}$, prove that f (f(x) = x for all x $\square$R $-\left\{\frac{3}{2}\right\}$

Q13. Find fog and gof, if (i) $f(x) = e^x$, g(x) = $\log e^x$ (ii) f(x) = x + 1, g(x) = 2x + 3

Q14. Prove that the function f : R$\rightarrow$R defined by f(x) = 2x-3 is invertible find f.

Q15. Let F : N $\rightarrow$ R be a function defined as $f(x0 = 4x^2 + 12x + 15$. Show that f: N $\rightarrow$ Range (f) is invertible. Find the inverse of f.

Q16. Show that f: [-1, 1] $\rightarrow$R, given by $f(x) = \frac{x}{x+2}$ is one-one, find the inverse of the function f: (-1, 1) $\rightarrow$Range (f).

CHAPTER - 2

INVERSE TRIGONOMETRIC FUNCTIONS

1. Evaluate : $\tan^{-1}\left(sin\ \left(\frac{\pi}{2}\right)\right)$.
2. Find the value of $\tan^{-1}\left(tan\ \frac{9\pi}{8}\right)$.
3. Evaluate : $\sin^{-1}\left[cos\ \left(\sin^{-1}\frac{\sqrt{3}}{2}\right)\right]$.
4. Find the value of $\sin\ \left[2\ \cot^{-1}\left(\frac{-5}{12}\right)\right]$.
5. Evaluate : $\cos\left[\sin^{-1}\frac{1}{4}+\ \sec^{-1}\frac{4}{3}\right]$.
6. Prove that: $2\ \sin^{-1}\frac{3}{5}-\ \tan^{-1}\frac{17}{31}=\frac{\pi}{4}$.
7. Prove that $\cot^{-1}7\ +\cot^{-1}\ 8+\cot^{-1}\ 18=\cot^{-1}\ 3$.
8. Find the value of $\sin\left(2\ \tan^{-1}\frac{2}{3}\right)\ +cos\ (\tan^{-1}\sqrt{3}\ )$.
9. Find the value of x which satisfy the equation $\sin^{-1}\ x+\sin^{-1}\ (1-x)=\cos^{-1}\ x$.
10. Solve the equation $\sin^{-1}\ 6x+\sin^{-1}6\sqrt{3}\ x=-\frac{\pi}{2}$.
11. Find the value of $\tan^{-1}\left(tan\ \frac{5\pi}{6}\right)+\cos^{-1}\left(cos\ \frac{13\pi}{6}\right)$.
12. Prove that $\cot\left(\frac{\pi}{4}-2\ \cot^{-1}3\right)=7$.
13. Solve the following equation $\cos\ (\tan^{-1}x)=\sin\ (\cot^{-1}\frac{3}{4}\ )$.
14. Prove that $\tan^{-1}\left(\frac{\sqrt{1+x^2}+\sqrt{1-x^2}}{\sqrt{1+x^2}-\sqrt{1-x^2}}\right)=\frac{\pi}{4}+\frac{1}{2}\cos^{-1}x^2$.

CHAPTER - 3

MATRICES

1. If $[2x\quad 3]\begin{bmatrix}1 & 2\\ -3 & 0\end{bmatrix}\begin{bmatrix}x\\ 8\end{bmatrix}=0$, find the value of x.
2. If $A=\begin{bmatrix}1 & 3 & 2\\ 2 & 0 & -1\\ 1 & 2 & 3\end{bmatrix}$, then show that A satisfies the equation $A^3-4A^2-3A+11I=0$.
3. Let $A=\begin{bmatrix}2 & 3\\ -1 & 2\end{bmatrix}$. then show that $A^2-4A+7I=0$. Using this result calculate A^5 also.
4. If a matrix has 28 elements, what are the possible orders it can have? What if it has 13 elements?
5. If possible, find BA and AB, where $A=\begin{bmatrix}2 & 1 & 2\\ 1 & 2 & 4\end{bmatrix}, B=\begin{bmatrix}4 & 1\\ 2 & 3\\ 1 & 2\end{bmatrix}$.
6. Show that A'A and AA' are both symmetric matrices for any matrix A.
7. If $A=\begin{bmatrix}0 & -x\\ x & 0\end{bmatrix}$, $B=\begin{bmatrix}0 & 1\\ 1 & 0\end{bmatrix}$ and $x^2=-1$, then show that $(A+B)^2=A^2+B^2$.
8. If $A=\begin{bmatrix}cos\ \alpha & sin\ \alpha\\ -sin\ \alpha & cos\ \alpha\end{bmatrix}$, and $A^{-1}=A'$, find the value of α.

CHAPTER – 4

DETERMINANTS

Q $\begin{vmatrix} 3 & -5 \\ -1 & 2 \end{vmatrix}$ Q $\begin{vmatrix} 1 & 2 & 5 \\ 1 & -1 & -1 \\ 2 & 3 & -1 \end{vmatrix}$ Q $\begin{vmatrix} 2 & -1 & -1 \\ 3 & 0 & -1 \\ 2 & 6 & 0 \end{vmatrix}$

Q $\begin{vmatrix} 2 & -3 & 3 \\ 2 & 2 & 3 \\ 3 & -2 & 2 \end{vmatrix}$ Q $\begin{vmatrix} 8 & -4 & 1 \\ 10 & 0 & -6 \\ 8 & 1 & 6 \end{vmatrix}$

Q $5x+2y = 4$
$7x+3y = 5$

Q $3x + 4y – 5 = 0$
$x – y + 3 = 0$

Q $3x – 2y + 3z = 8$
$2x + y – z = 1$
$4x – 3y + 2z = 4$

Q $x – y + z = -1$
$2x + y – z = 2$
$x – 2y-z = 4$

Q. $x + y + z = 4$
$2x – y + z = -1$
$2x + y – 3 = -9$

Q $4x + 2y + 3z = 5$
$x - 2y + z = -4$
$3x - y – 2z = 3$

Q. $4x + 2y + 3z = 9$
$X + y + z = 1$
$3x + y – 2z = 1$

Q $3x – 4y + 2z = -1$
$2x + 3y + 5z = 7$
$x + z = 2$

Q. $6x – 9y – 20z = -4$
$4x – 15y + 10z = -1$
$2x – 3y – 5z = -1$

CHAPTER – 5

CONTINUITY AND DIFFERENTIABILITY

1. If f(x) = $\begin{cases} \frac{x^3+x^2-16x+20}{(x-2)^2}, & x \neq 2 \\ k & x = 2 \end{cases}$ is continuouse at x = 2, find the value of k.
2. Differentiate $\sqrt{tan\sqrt{x}}$ w.r.t x.
3. Find $\frac{dy}{dx}$, if y = $\tan^{-1}\left(\frac{3x-x^3}{1-3x^2}\right)$, $-\frac{1}{\sqrt{3}} < x < \frac{1}{\sqrt{3}}$.
4. If y = $\sin^{-1}\{x\sqrt{1-x} - \sqrt{x}\sqrt{1-x^2}\}$ then find $\frac{dy}{dx}$.
5. If x = a $\sec^3\theta$ and y = a $\tan^3\theta$, find $\frac{dy}{dx}$ at $\theta = \frac{\pi}{3}$.
6. If $x^y = e^{x-y}$, prove that $\frac{dy}{dx} = \frac{log\, x}{(1+log\, x)^2}$.
7. Verify Rolle's theorem for the function, f(x) = sin 2x in [0, $\frac{\pi}{2}$].
8. Let f(x) = $\begin{cases} \frac{1-cos\,4x}{x^2}, & if\ x < 0 \\ a, & if\ x = 0 \\ \frac{\sqrt{x}}{\sqrt{16+\sqrt{x}-4}}, & if\ x > 0 \end{cases}$, for what value of a, f is continuous at x = 0?
9. Find $\frac{dy}{dx}$, if $y = x^{tanx} + \sqrt{\frac{x^2+1}{2}}$.
10. If x = sint and y = sin pt, prove that $(1 - x^2)\frac{d^2y}{dx^2} - x\frac{dy}{dx} + p^2 y = 0$.
11. If $x^m . y^n = (x + y)^{m+n}$, prove that:- (i) $\frac{dy}{dx} = \frac{y}{x}$ and (ii) $\frac{d^2y}{dx^2} = 0$.
12. Differentiate $\tan^{-1}\frac{\sqrt{1-x^2}}{x}$ with respect to $\cos^{-1}(2x\sqrt{1-x^2})$
13. find the value of k so that the function f is continuous at the indicated point:

f(x) = $\begin{cases} \frac{\sqrt{1+kx}-\sqrt{1-kx}}{x}, & if\ -1 \leq x < 0 \\ \frac{2x+1}{x-1}, & if\ 0 \leq x \leq 1 \end{cases}$ at x = 0

CHAPTER – 6

APPLICATION OF DERIVATIVES

1. For the curve $y = 5x - 2x^3$, if x increase at the rate of 2 units/sec, then how fast is the slo of curve changing when x = 3?
2. Determine for which values of x, the function $y = x^4 - \frac{4x^3}{3}$ is increasing and for which values it is decreasing.
3. Show that the function $f(x) = 4x^3 - 18x^2 + 27x - 7$ has neither maxima nor minima.
4. Using differentials, find the approximate value of $\sqrt{0.082}$.
5. Find all the points of local maxima and local minima of the function $f(x) = -\frac{3}{4}x^4 - 8x^3 - \frac{45}{2}x^2 + 105$.
6. Find the equation of all the tangents to the curve $y = \cos(x + y)$, $-2\pi \le x \le 2\pi$, that are paral to the line $x + 2y = 0$.
7. Show that the equation of normal at any point on the curve $x = 3\cos\theta - \cos^3\theta$, $y = 3\sin\theta - s$ θ is $4(y\cos^3\theta - x\sin^3\theta) = 3\sin 4\theta$.
8. Find the area of greatest rectangle that can be increased in an ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$.
9. An isosceles triangle of vertical angle 2θ is inscribed in a circle of radius a. show that the area of triangle is maximum when $\theta = \frac{\pi}{6}$.
10. If the area of a circle increases at a uniform rate, then prove that perimeter varies inversely as the radius.
11. The volume of a cube increases at a constant rate. Prove that the increase in its surfac area varies inversely as the length of the side.
12. Find the condition that the curves $2x = y^2$ and $2xy = k$ intersect orthogonally.
13. At what points on the curve $x^2 + y^2 - 2x - 4y + 1 = 0$, the tangents are parallel to the y – axis?
14. Show that $f(x) = \tan^{-1}(\sin x + \cos x)$ is an increasing function in $\left(0, \frac{\pi}{4}\right)$.
15. If the sum of the lengths of the hypotenuse and a side of a right angled triangle is giver show that the area of the triangle is maximum when the angle between them is $\left(\frac{\pi}{3}\right)$
16. An open box with square base is to be made of a given quantity of card board of area c^2 . show that the maximum volume of the box is $\frac{c^3}{6\sqrt{3}}$ cubic units.
17. If the sum of the surface areas of cube and a sphere is constant, what is the ratio of an edge of the cube of the diameter of the sphere, when the sum of their volumes is minimum?

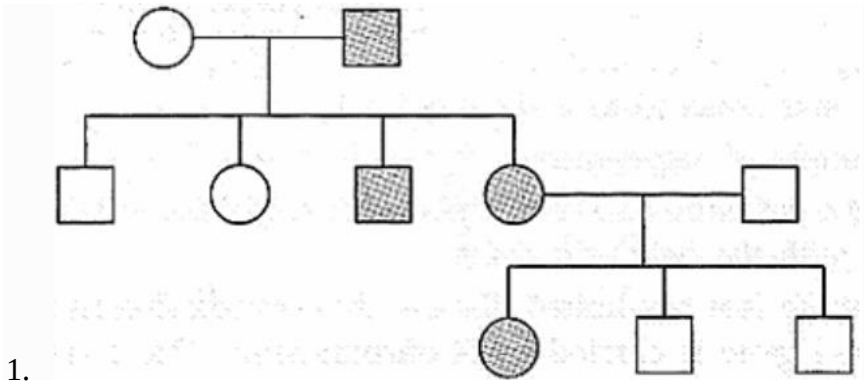
HOLIDAY ASSIGNMENT FOR CLASS XII BIOLOGY STUDENTS

- **LEARN ALL THESE Q/A GIVEN FROM CH 3 AND CH 5.**
- **PRACTICE ALL THE 5 MARKERS QUESTIONS AND DIAGRAMS ON YOUR CW NOTE BOOK.**
- **COMPLETE YOUR CBSE PROJECT FILE.**

PROBLEMS ON MENDELIAN INHERITANCE:

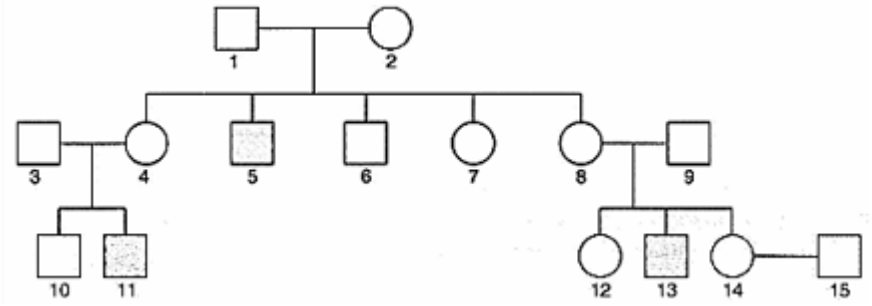
Q1. **A colour-blind father has a daughter with normal vision. The daughter marries a man with a normal vision. What is the probability of her children to be colour blind? Explain with the help of a pedigree chart.**

Q2. Study the given pedigree chart and answer the questions that follow:

1. 

1. Is the trait recessive or dominant?
2. Is the trait sex-linked or autosomal?
3. Give the genotypes of the parents shown in generation I and their II child is shown in generation II and the first grandchild shown in generation III.

Q2.Haemophilia is a sex-linked recessive disorder of humans. The pedigree chart given below shows the inheritance of haemophilia in one family. Study the pattern of inheritance and answer the questions given.

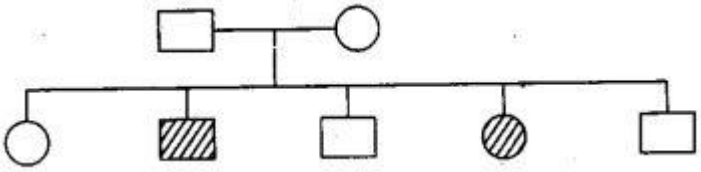


Q3.Give all the possible genotype of the members 4, 5 and 6 in the pedigree chart.

Q4.A blood test shows that the individual 14 is a carrier of haemophilia. The member numbered 15 has recently married the member numbered 14. What is the probability that their first child will be a haemophilic male?

Q5. In a certain taxon of insects, some have 17 chromosomes and the others have 18 chromosomes. The 17 and 18 chromosome-bearing organisms are
(a) Males and females, respectively (b) Females and males, respectively (c) All males (d) All females. EXPLAIN

Q6.The pedigree chart given below shows a particular trait which is absent in parents but present in the next generation irrespective of sexes. Draw your conclusion on the basis of the pedigree.



Q7. A, B, D are three independently assorting genes with their recessive alleles a, b, d, respectively. A cross was made between individuals of Aa bb DD genotype with aa bb dd. Find out the type of genotypes of the off spring produced.

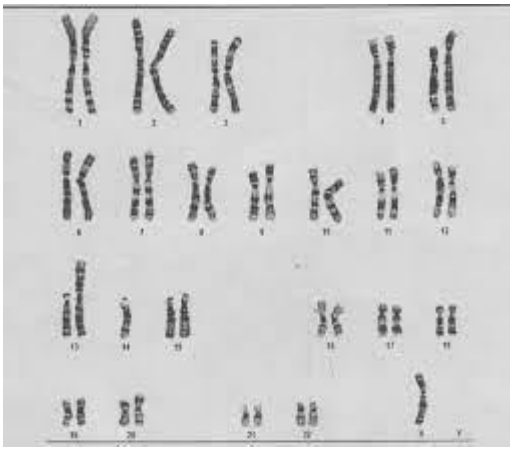
Q8.In peas, tallness is dominant over dwarfness, and red colour of flowers is dominant over the white colour. When a tall plant bearing red flowers was pollinated with a dwarf plant bearing white flowers, the different phenotypic groups were obtained in the progeny in numbers mentioned against them:

Tall, Red =138
Tall, White = 132
Dwarf, Red =136
Dwarf, White =128
Mention the genotypes of the two parents and of the four offspring types.

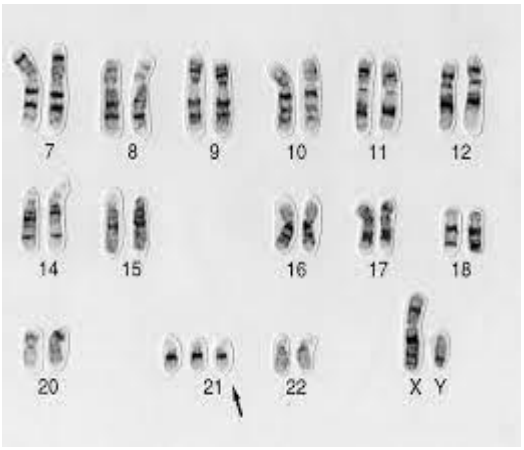
Q9.A normal visioned woman, whose father is colour blind, marries a normal visioned man. What would be probability of her sons and daughters to be colour blind? Explain with the help of a pedigree chart.

Q10. Identify the following syndromes and list all its features:

a)

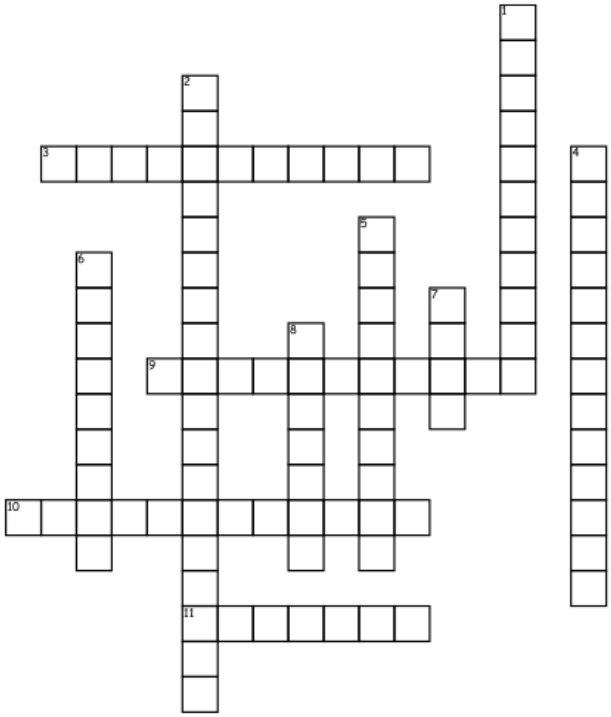


b)



Name: _____ Date: _____ Period: _____

Contraceptive Methods Crossword Puzzle



Across

3. A doughnut-shaped device inserted by a woman or girl into her vagina

9. Various substance inserted into the vagina to kill sperm

10. A thin sheath or pouch that a woman or girl inserts into her vagina to prevent sperm from entering her own body

11. A woman or girl takes it daily to prevent pregnancy

Down

1. Shot given to a woman or girl periodically to prevent ovulation and thicken cervical mucus

2. A woman or girl applies it to her skin like a band-aid

4. An operation in which a woman's fallopian tubes are cut or tied to prevent the egg and sperm from meeting

5. A man or boy wears it on his penis during sex: it prevents pregnancy and protects against STIs/ HIV

6. A surgical procedure that prevents the male's release of sperm

7. Inserted into the uterus, and often shaped like a T

8. A small rod inserted into the woman or girl arm

❖ SOLVE ALL THESE ALONG WITH REASONS, PEDIGREE ON CW NB.

Scholars Global School
Enlightening • Empowering • Enterprising

CHEMISTRY HOLIDAY HOMEWORK CLASS-XII

1. Solve all questions from NCERT exemplar for chapters done in chemistry.
2. Solve assignment given for Chapter-8 aldehydes ketones and carboxylic.
3. Prepare an investigatory project report on A4 sized colored sheets by selecting any one topic from the following given topics.
   a) Study of the oxalate ions in guava fruit at different stages of ripening.
   b) Preparation of soybean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, etc.
   c) Study of quantity of casein present in different samples of milk.
   d) Study of digestion of starch by salivary amylase and effect of pH and temperature on it.
   e) Comparative study of the rate of fermentation of following materials: wheat flour, gram flour, potato juice, carrot juice etc.
   f) Study of the effect of potassium Bisulphate as food preservatives under various conditions (temperature, concentration, time)
   g) Extraction of essential oils present in Saunf (aniseed), Ajwain (carum), illaichi (cardamom).
   h) Study of common food adulterants in fats, oil, butter, sugar, turmeric powder, chili powder and pepper

Note: - Students can select any topic other than mentioned above, only after concerned teacher's permission

Class XII
Computer Science with Python

Start working on project file on any one of the below motioned topic.

1. Hotel Management System
2. School Management System
3. ATM
4. Library Management System
5. Snake Games
6. Billing Software for any shop or organization
7. Hospital Management System
8. Any other games

New idea is also welcome.
Do let me know the progress of the project. Also create project file as well .

Do all given program and save them.

1. A list contains the following elements: 3, 25, 13, 6, 35, 8, 14, 45. Write a function to swap the content with the next value divisible by 5 so that the resultant List will look like: 25, 3, 13, 35, 6, 8, 45, 14
2. Write a program to accept values from a user in a tuple. Add a tuple to it and display its elements one by one. Also display its maximum and minimum value.
3. Write a program to input any values for two tuples. Print it, interchange it and then compare them.
4. Write a Python program to input 'n' classes and names of their class teachers to store them in a dictionary and display the same. Also accept a particular class from the user and display the name of the class teacher of that class.
5. Write a program to store student names and their percentage in a dictionary and delete a particular student name from the dictionary. Also display the dictionary after deletion.
6. Write a Python program to input names of 'n' customers and their details like items bought, cost and phone number, etc., store them in a dictionary and display all the details in a tabular form.
7. Write a Python program to capitalize first and last letters of each word of a given string.
8. Write a Python program to remove duplicate characters of a given string.
9. Write a Python program to compute sum of digits of a given string.
10. Write a Python program to find the second most repeated word in a given string.
11. Write a Python program to change a given string to a new string where the first and last chars have been exchanged.
12. Write a Python program to multiply all the items in a list.
13. Write a Python program to get the smallest number from a list.
14. Write a Python program to append a list to the second list.

15. Write a Python program to generate and print a list of first and last 5 elements where the values are square of numbers between 1 and 30 (both included).
16. Write a Python program to get unique values from a list.
17. Write a Python program to convert a string to a list.
18. Write a Python script to concatenate the following dictionaries to create a new one:
    d1={‘A’:1,’B’:2,’C’:3} d2={‘D’:4}
    Output should be: ={‘A’:1,’B’:2,’C’:3,’D’:4}
19. Write a Python script to check if a given key already exists in a dictionary.
20. Write a Python script to print a dictionary where the keys are numbers between 1 and 15 (both included) and the values are square of keys.
    Sample Dictionary
    {1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100, 11: 121, 12: 144, 13:169, 14: 196, 15: 225}
21. Write a Python script to merge two Python dictionaries. Write a Python program to sort a dictionary by key.
22. Write a Python program to combine two dictionary adding values for common keys.
    d1 = {‘a’:100,’b’: 200, 'c':300} d2 = {‘a’:300, ‘b’:200, 'd’:400}
    Sample output: {‘a’:400,’b’:400,’d’:400,'c': 300}
23. Write a Python program to find the highest 3 values in a dictionary.
24. Write a Python program to sort a list alphabetically in a dictionary.
25. Write a Python program to count number of items in a dictionary value that is a list.
26. Write a python program to remove duplicate from a list.
27. Write a python program to get the largest number from a list.

Email all the program and project file on sandeepsinghsgs@gmail.com

Scholars Global School

Department of Science

Physics (Holiday Home work)

Class XII

Q1. Solved NCERT solve examples from chapter-1 to Chapter 4.

Q2. Complete your practical file. List of Experiment are given below:

Section-A

Experiment-

1. 1. To determine resistance per cm of a given wire by plotting a graph for potential difference versus current.
2. To find resistance of a given wire using metre bridge and hence determine the resistivity (specific resistance) of its material.
3. To verify the laws of combination (series) of resistances using a metre bridge
4. To verify the laws of combination (parallel) of resistances using a metre bridge.
5. To compare the EMF of two given primary cells using potentiometer.
6. To determine the internal resistance of given primary cell using potentiometer.
7. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.
8. To convert the given galvanometer (of known resistance and figure of merit) into an ammeter of desired range and to verify the same.

Section-B

Experiment-

9. To find the value of *v* for different values of *u* in case of a concave mirror and to find the focal length.
10. To find the focal length of a convex mirror, using a convex lens.
11. To find the focal length of a convex lens by plotting graphs between *u* and *v* or between *1/u* and *1/v*.
12. To find the focal length of a concave lens, using a convex lens.
13. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
14. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias.
15. To draw the characteristic curve of a zener diode and to determine its reverse break down voltage.
16. To study the characteristic of a common - emitter *npn*or *pnp*transistor and to find out the values of current and voltage gains.

Q3. Complete your Activity file. List of activities are given below:

Section-A

1. To measure the resistance and impedance of an inductor with or without iron core.

2. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter.

3. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.

4. To assemble the components of a given electrical circuit.

5. To study the variation in potential drop with length of a wire for a steady current.

Section-B

6. To find the value of *v* for different values of *u* in case of a concave mirror and to find the focal length.

7. To find the focal length of a convex mirror, using a convex lens.

8. To find the focal length of a convex lens by plotting graphs between *u* and *v* or between *1/u* and *1/v*.

9. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias.

10. To study the characteristic of a common - emitter *npn*or *pnp*transistor and to find out the values of current and voltage gains.

Q4. Prepare 8-10 page report on project based on external examinations. List of projects are given below

Class Roll.No.	Name of Students	Title of Projects
1.		**Step up Transformer**
2		**Half wave Rectifier**
3		**Full Wave rectifier**
4		**n-p-n transistor switch**
5		**p-n-p transistor switch**
6		**AND Gate**
7		**NAND Gate**
8		**NOR Gate**
9		**Step down transformer**
10		**Half wave Rectifier**
11		**Full Wave rectifier**
12		**n-p-n transistor as amplifier**
13		**p-n-p transistor as amplifier**
14		**AND Gate**
15		**NAND Gate**
16		**NOR Gate**
17		**Electric Motor**
18		**Electric Generator**
19		**Step up Transformer**
20		**Half wave Rectifier**
21		**Full Wave rectifier**
22		**n-p-n transistor switch**
23		**p-n-p transistor switch**

CLASS XII
PSYCHOLOGY
HOLIDAYS HOMEWORK

Q1. Analyze any four articles from the **NEWSPAPER** from behaviorist and humanistic perspective.

OR

Prepare a case profile in the File using different assessment methods like Psychological tests, Interview, Case study, Observation, Narration. Observe and interview three persons in your neighborhood in order to check how they differ from each other in terms of Psychological Attributes. Cover all FIVE domains i.e. Intelligence, Personality, Aptitude, Values and Interest. Prepare a psychological profile of each person and compare results related to Chapter-1.

Q2. Introductory content for three practical to be written in the practical file.

- Sinha's Comprehensive Anxiety Test
- Maudsley Personality Inventory
- David Battery of Differential Abilities

Q3. Revise Chapter 1, 2 and 3 for forthcoming exam.