# केंद्रीय विद्यालय क्र.-1

## अर्मापुर, कानपुर

# KENDRIYA VIDYALAYA No.1

## ARMAPUR, KANPUR

तत् त्वं पूषन् अपावृणु
केन्द्रीय विद्यालय संगठन

# Autumn Break

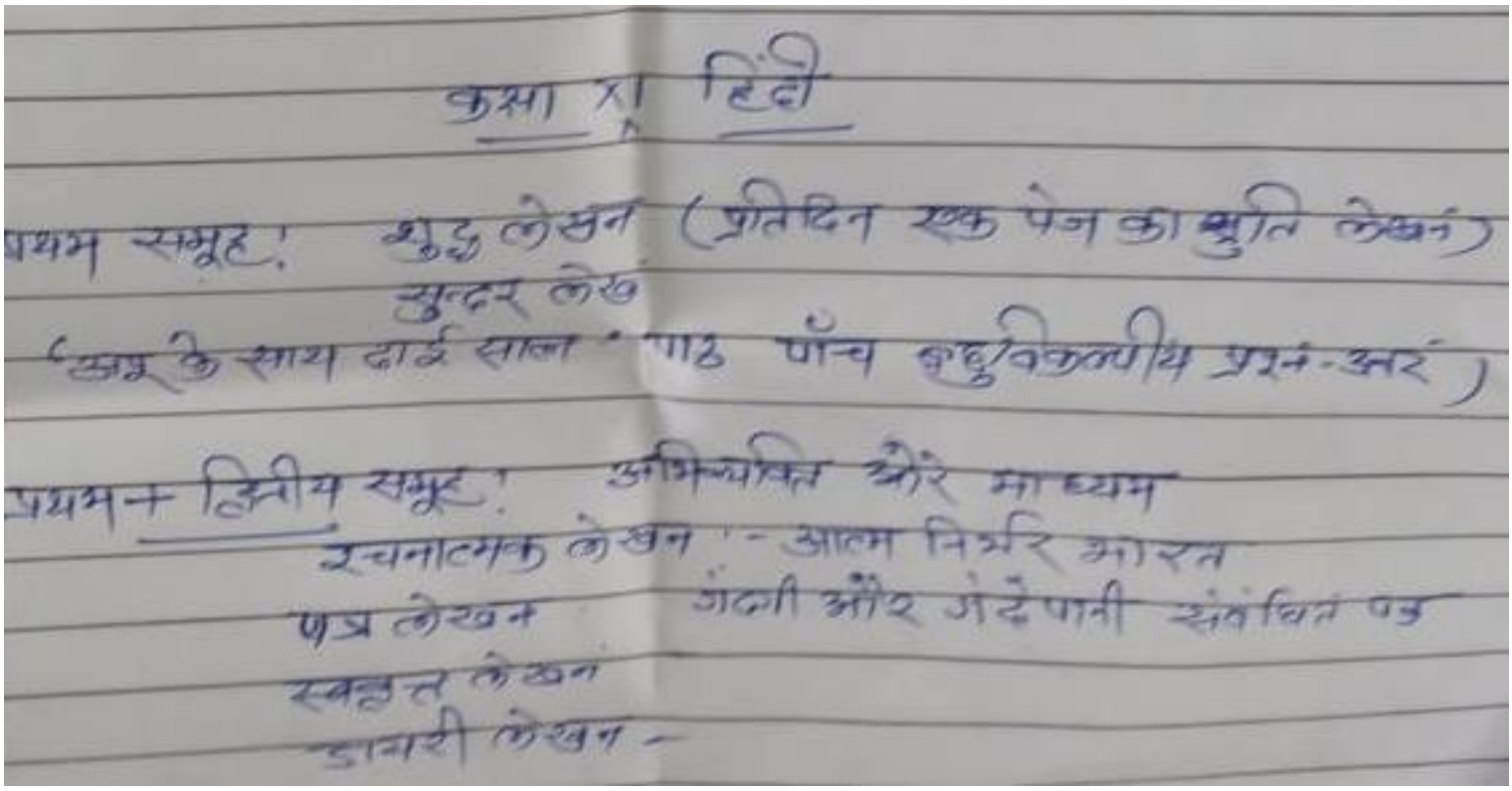
# Holiday Homework

# CLASS-XI

# Autumn Break

# Holiday Homework

# Class-XI Hindi



# KENDRIYA VIDYALAYA No.1 ARMAPUR, KANPUR
## CLASS XI A & XI C
## SUBJECT: ENGLISH
## ASSIGNMENT FOR AUTUMN BREAK -2022-23

1. Design a poster on the topic “importance of Yoga and exercises” in our life using not more than 50 words.
2. You want to sell your car. Draft a suitable advertisement to be published in the local daily using not more than 50 words.
3. Prepare a speech on the topic “ Harmful effects of Mobile phones” in the life of students, using not more than 120-150 words
4. Your school is going to organize a debate on “Social Media and It’s Effects” and you will be participating in your school. Prepare your views against & in favour of the motion. (120 – 150 words each ) (5)
5. Prepare Tenses (Grammar) at a glance.
6. Learn questions and answers of the chapters which have been taught till 30-09-2022

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# HOLIDAY HOME WORK FOR AUTUMN BREAK 2022

# CLASS XI

# SUBJECT PHYSICS

1. Write physics practical in record copy which are completed till now.
2. Write three activities of section-A in another thin record copy.
3. Write down the answers of exercise questions of NCERT book of laws of motion
4. Complete the science project of JNNSMEE.

# CHEMISTRY – 11th

# AUTUMN BREAK HOLIDAY HOMEWROK

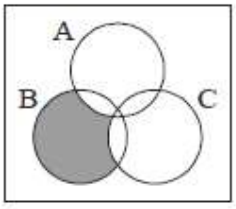
1. To complete NCSC project or make working model for Science Exhibition.
2. Complete notes and exercises including examples and intexts of chapter-3 (Classification of elements and Periodicity in Properties).
3. To learn Chapter-1 Some Basic Concepts of Chemistry
   Chapter-2 Structure of Atom
   Chapter-3 Classification of Elements and Periodicity in Properties
4. To complete the practical noterbook.

**AUTUMN BREAK _ HOME WORK**

**CLASS XI**

**MATHS**

## 1.SETS:-

| | | | |
|---|---|---|---|
| 1 | The set of intelligent students in a class is :<br>(a) a null set (b) a singleton set<br>(c) a finite set (d) not a well defined collection | 2 | If the sets A and B are given by $A = \{1, 2, 3, 4\}$, $B = \{2, 4, 6, 8, 10\}$ and the universal set $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$, then<br>(a) $(A \cup B)' = \{5, 7, 9\}$<br>(b) $(A \cap B)' = \{1, 3, 5, 6, 7\}$<br>(c) $(A \cap B)' = \{1, 3, 5, 6, 7, 8\}$<br>(d) None of these |
| 3 | If $A = \{1, 2, 3, 4\}$, $B = \{2, 3, 5, 6\}$ and $C = \{3, 4, 6, 7\}$, then<br>(a) $A - (B \cap C) = \{1, 3, 4\}$<br>(b) $A - (B \cap C) = \{1, 2, 4\}$<br>(c) $A - (B \cup C) = \{2, 3\}$<br>(d) $A - (B \cup C) = \{\phi\}$ | 4 | The number of the proper subset of {a, b, c} is:<br>(a) 3 (b) 8<br>(c) 6 (d) 7 |
| 5 | Which one is different from the others ?<br>(i) empty set (ii) void set (iii) zero set (iv) null set :<br>(a) (i) (b) (ii)<br>(c) (iii) (d) (iv) | 6 | If the sets A and B are as follows :<br>$A = \{1, 2, 3, 4\}$, $B = \{3, 4, 5, 6\}$, then<br>(a) $A - B = \{1, 2\}$<br>(b) $B - A - \{5\}$<br>(c) $[(A - B) - (B - A)] \cap A = \{1, 2\}$<br>(d) $[(A - B) - (B - A)] \cup A = \{3, 4\}$ |
| 7 | Given the sets<br>$A = \{1, 3, 5\}$, $B = \{2, 4, 6\}$ and $C = \{0, 2, 4, 6, 8\}$. Which of the following may be considered as universal set for all the three sets $A$, $B$ and $C$?<br>(a) $\{0, 1, 2, 3, 4, 5, 6\}$<br>(b) $\phi$<br>(c) $\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$<br>(d) $\{1, 2, 3, 4, 5, 6, 7, 8\}$ | 8 | If $\phi$ denotes the empty set, then which one of the following is correct ?<br>(a) $\phi \in \phi$ (b) $\phi \in \{\phi\}$<br>(c) $\{\phi\} \in \{\phi\}$ (d) $0 \in \phi$ |
| 9 | Which one of the following is an infinite set ?<br>(a) The set of human beings on the earth<br>(b) The set of water drops in a glass of water<br>(c) The set of trees in a forest<br>(d) The set of all primes | 10 | The set $A = \{x : x \in R, x^2 = 16 \text{ and } 2x = 6\}$ equals<br>(a) $\phi$ (b) {14, 3, 4}<br>(c) {3} (d) {4} |
| 11 | $A = \{x : x \neq x\}$ represents<br>(a) {x} (b) {1}<br>(c) { } (d) {0} | 12 | Which of the following has only one subset?<br>(a) { } (b) {4}<br>(c) {4, 5} (d) {0} |
| 13 | Which of the following is a null set ?<br>(a) {0}<br>(b) $\{x : x > 0 \text{ or } x < 0\}$<br>(c) $\{x : x^2 = 4 \text{ or } x = 3\}$<br>(d) $\{x : x^2 + 1 = 0, x \in R\}$ | 14 | The shaded region in the given figure is<br>  <br><br>(a) $B \cap (A \cup C)$ (b) $B \cup (A \cap C)$<br>(c) $B \cap (A - C)$ (d) $B - (A \cup C)$ |

| | | | |
|---|---|---|---|
| 15 | Which of the following sets is a finite set?<br>(a) $A = \{x : x \in Z \text{ and } x^2 - 5x + 6 = 0\}$<br>(b) $B = \{x : x \in Z \text{ and } x^2 \text{ is even}\}$<br>(c) $D = \{x : x \in Z \text{ and } x > -10\}$<br>(d) All of these | 16 | Which of the following is not a null set?<br>(a) Set of odd natural numbers divisible by 2<br>(b) Set of even prime numbers<br>(c) $\{x : x \text{ is a natural number, } x < 5 \text{ and } x > 7\}$<br>(d) $\{y : y \text{ is a point common to any two parallel lines}\}$ |
| 17 | If A and B are non-empty subsets of a set, then $(A - B) \cup (B - A)$ equals to<br>(a) $(A \cap B) \cup (A \cup B)$ (b) $(A \cup B) - (A - B)$<br>(c) $(A \cup B) - (A \cap B)$ (d) $(A \cup B) - B$ | 18 | Let A, B, C are three non-empty sets. If $A \subset B$ and $B \subset C$, then which of the following is true?<br>(a) $B - A = C - B$ (b) $A \cap B \cap C = B$<br>(c) $A \cup B = B \cap C$ (d) $A \cup B \cup C = A$ |
| 19 | If A and B are two sets, then $A \cap (A \cup B)'$ is equal to<br>(a) A (b) B<br>(c) $\phi$ (d) None of these | 20 | If A and B are sets, then $A \cap (B - A)$ is<br>(a) $\phi$ (b) A<br>(c) B (d) None of these |

## 2.RELATIONS AND FUNCTIONS:-

| | | | |
|---|---|---|---|
| 1 | If $A \times B = \{(5,5), (5,6), (5,7), (8,6), (8,7), (8,5)\}$, then the value $A$ is<br>(a) {5} (b) {8} (c) {5, 8} (d) {5, 6, 7, 8} | 2 | If $f(x+1) = x^2 - 3x + 2$, then $f(x)$ is equal to:<br>(a) $x^2 - 5x - 6$ (b) $x^2 + 5x - 6$<br>(c) $x^2 + 5x + 6$ (d) $x^2 - 5x + 6$ |
| 3 | The Cartesian product of two sets P and Q, i.e., $P \times Q = \phi$, if<br>(a) either P or Q is the null set<br>(b) neither P nor Q is the null set<br>(c) Both (a) and (b)<br>(d) None of the above | 4 | Let A = {x, y, z} and B = {a, b, c, d}. Then, which one of the following is not a relation from A to B?<br>(a) {(x, a), (x, c)} (b) {(y, c), (y, d)}<br>(c) {(z, a), (z, d)} (d) {(z, b), (y, b), (a, d)} |
| 5 | Let R be the relation on Z defined by<br>R = {(a, b) : a, b ∈ Z, a – b is an integer}. Then<br>(a) domain of R is {2, 3, 4, 5, .....}<br>(b) range of R is Z<br>(c) Both (a) and (b)<br>(d) None of the above | 6 | Let N be the set of natural numbers and the relation R be defined such that {R = (x, y) : y = 2x, x, y ∈ N}. Then,<br>(a) R is a function<br>(b) R is not a function<br>(c) domain, range and co-domain is N<br>(d) None of the above |
| 7 | The domain of relation<br>$R = \{(x, y) : x^2 + y^2 = 16, x, y \in Z\}$ is<br>(a) {0, 1, 2, 3, 4}<br>(b) {–4, –3, –2, –1}<br>(c) {–4, –3, –2, –1, 0, 1, 2, 3, 4}<br>(d) None of the above | 8 | Let A = {1, 2, 3, 4}, B = {1, 5, 9, 11, 15, 16} and f = {(1, 5), (2, 9), (3, 1), (4, 5), (2, 11)}. Then,<br>(a) f is a relation from A to B<br>(b) f is a function from A to B<br>(c) Both (a) and (b)<br>(d) None of these |
| 9 | If A = {2, 3, 4, 5} and B = {3, 6, 7, 10}. R is a relation defined by R = {(a, b) : a is relatively prime to b, a ∈ A and b ∈ B}, then domain of R is<br>(a) {2, 3, 5} (b) {3, 5}<br>(c) {2, 3, 4} (d) {2, 3, 4, 5} | 10 | If A = {1, 2, 4}, B = {2, 4, 5}, C = {2, 5}, then $(A - C) \times (B - C)$ is equal to<br>(a) {(1, 4)} (b) {(1, 4), (4, 4)}<br>(c) {(4, 1), (4, 4)} (d) {(1, 2), (2, 5)} |
| 11 | The domain of relation<br>$R = \{(x, y) : x^2 + y^2 = 16, x, y \in Z\}$ is<br>(a) {0, 1, 2, 3, 4}<br>(b) {–4, –3, –2, –1}<br>(c) {–4, –3, –2, –1, 0, 1, 2, 3, 4}<br>(d) None of the above | 12 | The domain and range of the relation R given by<br>$R = \{(x, y) : y = x + \frac{6}{x}$; where x, y ∈ N and $x < 6\}$ is<br>(a) {1, 2, 3}, {7, 5} (b) {1, 2}, {7, 5}<br>(c) {2, 3}, {5} (d) None of these |
| 13 | Domain of $\sqrt{a^2 - x^2}$, (a > 0) is<br>(a) (–a, a) (b) [–a, a]<br>(c) [0, a] (d) (–a, 0] | 14 | If $\phi(x) = a^x$, then $[\phi(p)]^3$ is equal to<br>(a) $\phi(3p)$ (b) $3\phi(p)$<br>(c) $6\phi(p)$ (d) $2\phi(p)$ |
| 15 | If (4x + 3, y) = (3x + 5, –2), then the sum of the values of x and y is<br>(a) 0 (b) 2 (c) –2 (d) 1 | 16 | The number of elements in the set $\{(x, y) : 2x^2 + 3y^2 = 35$, x, y ∈ Z}, where Z is the set of all integers,<br>(a) 8 (b) 2 (c) 4 (d) 6 |

| | | | |
|---|---|---|---|
| 17 | If the set A has 3 elements and the set B = {3, 4}, then the number of elements in A × B is<br>(a) 6 (b) 9 (c) 8 (d) 2 | 18 | If $f(y) = 2y^7 + by + c$ and $f(0) = 3$ and $f(2) = 1$, then the value of $f(1)$ is<br>(a) 0 (b) 1<br>(c) 2 (d) 3 |
| 19 | Let X = {1, 2, 3}. The total number of distinct relations that can be defined over X is $2^n$. The value of 'n' is<br>(a) 9 (b) 6<br>(c) 8 (d) 2 | 20 | If $f(x) = ax + b$, where a and b are integers, $f(-1) = -5$ and $f(3) = 3$, then the value of 'a' is<br>(a) 3 (b) 0<br>(c) 2 (d) 1 |

## 3.TRIGONOMETRIC FUNCTIONS:-

| | | | |
|---|---|---|---|
| 1 | The value of $\tan^2\theta \sec^2\theta (\cot^2\theta - \cos^2\theta)$ is<br>(a) 0 (b) 1 (c) –1 (d) $\frac{1}{2}$ | 2 | Value of $\sin 10° + \sin 20° + \sin 30° + \ldots\ldots + \sin 360°$ is<br>(a) 1 (b) 0 (c) 2 (d) $\frac{1}{2}$ |
| 3 | If $\tan A = -\frac{1}{2}$ and $\tan B = -\frac{1}{3}$, then value of A + B is<br>(a) $\pi$ (b) $\frac{\pi}{6}$ (c) $\frac{\pi}{2}$ (d) $\frac{\pi}{4}$ | 4 | Value of $\left(1+\cos\frac{\pi}{8}\right)\left(1+\cos\frac{3\pi}{8}\right)\left(1+\cos\frac{5\pi}{8}\right)\left(1+\cos\frac{7\pi}{8}\right)$ is<br>(a) $\frac{1}{8}$ (b) $\frac{3}{4}$ (c) $\frac{2}{3}$ (d) $\frac{5}{8}$ |
| 5 | Value of $\sin 10° + \sin 20° + \sin 30° + \ldots\ldots + \sin 360°$ is<br>(a) 1 (b) 0 (c) 2 (d) $\frac{1}{2}$ | 6 | Value of $\tan 15°. \tan 45° \tan 75°$ is<br>(a) 0 (b) 1 (c) $\frac{\sqrt{3}}{2}$ (d) –1 |
| 7 | Value of $\left(1+\cos\frac{\pi}{8}\right)\left(1+\cos\frac{3\pi}{8}\right)\left(1+\cos\frac{5\pi}{8}\right)\left(1+\cos\frac{7\pi}{8}\right)$ is<br>(a) $\frac{1}{8}$ (b) $\frac{3}{4}$ (c) $\frac{2}{3}$ (d) $\frac{5}{8}$ | 8 | The angle in radian through which a pendulum swings and its length is 75 cm and tip describes an arc of length 21 cm, is<br>(a) $\frac{7}{25}$ (b) $\frac{6}{25}$ (c) $\frac{8}{25}$ (d) $\frac{3}{25}$ |
| 9 | A circular wire of radius 3 cm is cut and bent so as to lie along the circumference of a hoop whose radius is 48 cm. The angle in degrees which is subtended at the centre of hoop is<br>(a) 21.5° (b) 23.5° (c) 22.5° (d) 24.5° | 10 | If $\tan\theta = 3$ and $\theta$ lies in III$^{rd}$ quadrant, then the value of $\sin\theta$ is<br>(a) $\frac{1}{\sqrt{10}}$ (b) $\frac{2}{\sqrt{10}}$ (c) $\frac{-3}{\sqrt{10}}$ (d) $\frac{-5}{\sqrt{10}}$ |
| 11 | If A + B = 45°, then (cot A – 1) (cot B – 1) is equal to<br>(a) 1 (b) $\frac{1}{2}$ (c) –1 (d) 2 | 12 | The value of tan 75° – cot 75° is equal to<br>(a) $2\sqrt{3}$ (b) $2+\sqrt{3}$<br>(c) $2-\sqrt{3}$ (d) 1 |
| 13 | If $\tan A = \frac{1}{2}$, $\tan B = \frac{1}{3}$, then $\tan(2A + B)$ is equal to<br>(a) 1 (b) 2 (c) 3 (d) 4 | 14 | If $\tan\theta = \frac{a}{b}$, then $b\cos 2\theta + a \sin 2\theta$ is equal to<br>(a) a (b) b (c) $\frac{a}{b}$ (d) None of these |
| 15 | If $\sin\theta = \frac{24}{25}$ and $0° < \theta < 90°$ then what is the value of $\sin\left(\frac{\theta}{2}\right)$?<br>(a) $\frac{12}{25}$ (b) $\frac{7}{25}$ (c) $\frac{3}{5}$ (d) $\frac{4}{5}$ | 16 | The value of $\sin\frac{31\pi}{3}$ is<br>(a) $\frac{\sqrt{3}}{2}$ (b) $-\frac{\sqrt{3}}{2}$ (c) $-\frac{1}{\sqrt{2}}$ (d) $\frac{1}{\sqrt{2}}$ |

## 4.COMPLEX NUMBERS:-

| | | | |
|---|---|---|---|
| 1 | Value of $\left(\frac{2i}{1+i}\right)^2$ is<br>(a) $i$ (b) $2i$<br>(c) $1-i$ (d) $1-2i$ | 2 | If $\left(\frac{1-i}{1+i}\right)^{100} = a+ib$ then<br>(a) $a=2, b=-1$ (b) $a=1, b=0$<br>(c) $a=0, b=1$ (d) $a=-1, b=2$ |

| | | | |
|---|---|---|---|
| 3 | If $(x+iy)(2-3i)=4+i$, then<br>(a) $x=-14/13, y=5/13$ (b) $x=5/13, y=14/13$<br>(c) $x=14/13, y=5/13$ (d) $x=5/13, y=-14/13$ | 4 | If $z_1=\sqrt{3}+i\sqrt{3}$ and $z_2=\sqrt{3}+i$, then in which quadrant $\left(\frac{z_1}{z_2}\right)$ lies?<br>(a) I (b) II (c) III (d) IV |
| 5 | If $4x+i(3x-y)=3+i(-6)$, where $x$ and $y$ are real numbers, then the values of $x$ and $y$ are<br>(a) $x=-\frac{3}{5}$ and $y=-\frac{33}{4}$ (b) $x=-\frac{3}{4}$ and $y=-\frac{22}{3}$<br>(c) $x=\frac{3}{4}$ and $y=\frac{33}{4}$ (d) $x=\frac{3}{4}$ and $y=\frac{33}{5}$ | 6 | The conjugate of the complex number $\frac{2+5i}{4-3i}$ is equal to :<br>(a) $\frac{7-26i}{25}$ (b) $\frac{-7-26i}{25}$<br>(c) $\frac{-7+26i}{25}$ (d) $\frac{7+26i}{25}$ |
| 7 | The real part of $\frac{(1+i)^2}{(3-i)}$ is<br>(a) $\frac{1}{3}$ (b) $\frac{1}{5}$<br>(c) $-\frac{1}{3}$ (d) None of these | 8 | The multiplicative inverse of $\frac{3+4i}{4-5i}$ is<br>(a) $\frac{8}{25}-\frac{31}{25}i$ (b) $-\frac{8}{25}-\frac{31}{25}i$<br>(c) $-\frac{8}{25}+\frac{31}{25}i$ (d) None of these |
| 9 | $\left(\frac{1}{1-2i}+\frac{3}{1+i}\right)\left(\frac{3+4i}{2-4i}\right)$ is equal to :<br>(a) $\frac{1}{2}+\frac{9}{2}i$ (b) $\frac{1}{2}-\frac{9}{2}i$<br>(c) $\frac{1}{4}-\frac{9}{4}i$ (d) $\frac{1}{4}+\frac{9}{4}i$ | 10 | The value of $(1+i)^4\left(1+\frac{1}{i}\right)^4$ is<br>(a) 12 (b) 2<br>(c) 8 (d) 16 |
| 11 | Evaluate: $(1+i)^6+(1-i)^3$.<br>(a) $-2-10i$ (b) $2-10i$<br>(c) $-2+10i$ (d) $2+10i$ | 12 | If $(x+iy)^{\frac{1}{3}}=a+ib$, where x, y, a, b $\in$ R, then $\frac{x}{a}-\frac{y}{b}=$<br>(a) $a^2-b^2$ (b) $-2(a^2+b^2)$<br>(c) $2(a^2-b^2)$ (d) $a^2+b^2$ |
| 13 | What is the conjugate of $\frac{\sqrt{5+12i}+\sqrt{5-12i}}{\sqrt{5+12i}-\sqrt{5-12i}}$?<br>(a) $-3i$ (b) $3i$ (c) $\frac{3}{2}i$ (d) $-\frac{3}{2}i$ | 14 | The modulus of $\frac{\left(1+i\sqrt{3}\right)(2+2i)}{\left(\sqrt{3}-i\right)}$ is<br>(a) 2 (b) 4 (c) $3\sqrt{2}$ (d) $2\sqrt{2}$ |
| 15 | The argument of the complex number $\left(\frac{i}{2}-\frac{2}{i}\right)$ is equal to<br>(a) $\frac{\pi}{4}$ (b) $\frac{3\pi}{4}$ (c) $\frac{\pi}{12}$ (d) $\frac{\pi}{2}$ | 16 | If $\frac{(1+i)^3}{(1-i)^3}-\frac{(1-i)^3}{(1+i)^3}=x-iy$<br>(a) $x=0, y=-2$ (b) $x=-2, y=0$<br>(c) $x=1, y=1$ (d) $x=-1, y=1$ |

## 5.LINEAR INEQUALITIES:-

| | | | |
|---|---|---|---|
| 1 | The solution set of the inequality $4x+3<6x+7$ is<br>(a) $[-2,\infty)$ (b) $(-\infty,-2)$<br>(c) $(-2,\infty)$ (d) None of these | 2 | Which of the following is the solution set of $3x-7>5x-1\ \forall\ x\in R$?<br>(a) $(-\infty,-3)$ (b) $(-\infty,-3]$<br>(c) $(-3,\infty)$ (d) $(-3,3)$ |
| 3 | The solution set of the inequality $37-(3x+5)\geq 9x-8(x-3)$ is<br>(a) $(-\infty,2)$ (b) $(-\infty,-2)$<br>(c) $(-\infty,2]$ (d) $(-\infty,-2]$ | 4 | The solution set of the inequalities $6\leq -3(2x-4)<12$ is<br>(a) $(-\infty,1]$ (b) $(0,1]$<br>(c) $(0,1]\cup[1,\infty)$ (d) $[1,\infty)$ |
| 5 | Which of the following is the solution set of linear inequalities $2(x-1)<x+5$ and $3(x+2)>2-x$?<br>(a) $(-\infty,-1)$ (b) $(-1,1)$ (c) $(-1,7)$ (d) $(1,7)$ | 6 | If $\frac{5-2x}{3}\leq\frac{x}{6}-5$, then $x\in$<br>(a) $[2,\infty)$ (b) $[-8,8]$ (c) $[4,\infty)$ (d) $[8,\infty)$ |

| | | | |
|---|---|---|---|
| 7 | The solutions of the system of inequalities $3x - 7 < 5 + x$ and $11 - 5x \leq 1$ on the number line is<br>(a)  <br>(b)  <br>(c)  <br>(d) None of the above | 8 | If $\frac{3x-4}{2} \geq \frac{x+1}{4} - 1$, then $x \in$<br>(a) $[1, \infty)$ (b) $(1, \infty)$ (c) $(-5, 5)$ (d) $[-5, 5]$ |
| 9 | If $-5 \leq \frac{5-3x}{2} \leq 8$, then $x \in$<br>(a) $\left[-\frac{11}{3}, 5\right]$ (b) $[-5, 5]$<br>(c) $\left[-\frac{11}{3}, \infty\right)$ (d) $(-\infty, \infty)$ | 10 | If $\lvert x + 2 \rvert \leq 9$, then<br>(a) $x \in (-7, 11)$ (b) $x \in [-11, 7]$<br>(c) $x \in (-\infty, -7) \cup (11, \infty)$ (d) $x \in (-\infty, -7) \cup [11, \infty)$ |

# HOME ASSSIGMENT CLASS XI (2022-2023)
# AUTUMN BREAK
# COMPUTER SCIENCE/IP

- Which two languages contributed to Python as a Programming Language?
- Is Python an Object Oriented Language?
- What does a cross platform language mean?
- Python is a Free and Open Source language. What do you understand by this feature?

- Which of the following are not valid strings in Python?
  (a)‖Hello‖ (b) _Hello‘ (c)‖Hello‘ (d) _Hello‖ (e) {Hello}
- What is None literal in Python?
- What is the difference between an expression and a statement in Python?
- What is block/code block/suit in Python?
- What is the role of indentation in Python?

- What is the error in following Python program with one statement?
  *print(“My name is : “, name)*
  Suggest a solution
- What will be the output of the following code:

```
name='Hari'
age=18
print(name,", you are ",age," now but ",end="")
print("You will be ",age+1," next Year")
```

- Predict output:

```
a,b,c=2,3,4
a,b,c=a*a,a*b,a*c
print(a,b,c)
```

- WAP that asks your height in centimeters and converts it into foot and inches.
- What will be the output of the following ?

```
print(17//4)
print(17/4)
print(len(str(17//4)))
print(len(str(17/4)))
```

- What will be the output of the following code? Why?
  (a) 13 or len(13) (b) len(13) or 13
- Python program to convert Kilometers to Miles.
- WAP to find if a given number (0-999) is 1/2/3 digit number.
- What is a truth table? What is its significance?
- Prove algebraically X.Y + X‟.Z + Y.Z = X.Y + X‟.Z
- What is the difference between source code and object code?
- How is a process different from a program?
- Why are logical errors harder to locate?
- What is an Exception?

- When does these exception occur?
  (a) Type Error (b) Index Error (c) Name Error

# HOLIDAY HOME WORK FOR AUTUMN BREAK 2022

## CLASS XI

## SUBJECT BIOLOGY

1. Write Biology practical in record copy :- Experiment no -1,2,3,4,6&9.
2. Experiments Spotting:-1,2&3.
3. Write down the notes and assignment questions ans were chapter 5 Morphology of flowering plants.
4. Read the following chapters 6,7,8,9&10 and note down the problem for cleaning the chapters in class room teaching.
5. Complete the science project of JNNSMEE.

# AUTUMN BREAK HOMEWORK

CLASS-11th

SUB: BIOTECHNOLOGY

1. Prepare already allotted topics for presentation.
2. Prepare your practical file with 05 experiments.
3. Do these questions in classwork notebook-

i) Diagram of plant cell and animal cell with proper labelling.

(ii) Give function and also draw the structure of following :-

* Cell membrane
* Nucleus
* Cytoskeleton
* Mitochondria
* Plastids
* Golgi apparatus
* Endoplasmic reticulum
* Lysosomes
* Ribosomes
* Peroxisomes

(iii) Diagrammatically explain all types of plant tissues and animal tissues.

# AUTUMN BREAK HOLIDAY ASSIGNMENT

## CLASS XI

## SUBJECT -ECONOMICS

| | | |
|---|---|---|
| 1. | Relevance of the topic | 3 |
| 2. | Knowledge Content/Research Work | 6 |
| 3. | Presentation Technique | 3 |
| 4. | Viva-voce | 8 |
| | Total | 20 Marks |

**Suggestive List of Projects:**

| **Class XI** | |
|---|---|
| • Effect on PPC due to various government policies | • Invisible Hand (Adam Smith) |
| • Opportunity Cost as an Economic Tool (taking real life situations) | • Effect of Price Change on a Substitute Good (taking prices from real life visiting local market) |
| • Effect on equilibrium Prices in Local Market (taking real life situation or recent news) | • Effect of Price Change on a Complementary Good (taking prices from real life visiting local market) |
| • Solar Energy, a Cost Effective Comparison with Conventional Energy Sources | • Bumper Production- Boon or Bane for the Farmer |
| • Any other newspaper article and its evaluation on basis of economic principles | • **Any other topic** |