KENDRIYA VIDYALAYA JAWAHARNAGAR

HOLIDAY HOMEWORK

CLASS IX (ENGLISH) :

· Comp	lete	the	ener	cise o	y chap	stere 1-t	0 50
from	the	book	ttone	ydew.			
2. Truy	Lõ	trans	late	p the	followi	ng sent	ences
into	Em	glish .		Þ	•	0	

CLASS IX (HINDI) :

- 1. क्षितिज भाग -1 के पहले दोनों पाठों के प्रश्न-उत्तर याद करो।
- 2. निम्नलिखित शब्दों के अर्थ, हिंदी शब्दकोश से देखकर लिखिए :-
- (क) ज्ञापन (ख) क्षय (ग) श्रुत
- 3. संज्ञा , सर्वनाम और विशेषण की परिभाषाएं और उनके प्रकार (भेद) उदाहरणों सहित लिखिए?
- 4. उपसर्ग और प्रत्यय को उदाहरण के साथ परिभाषा लिखें।
- 5. कोरोना से बचने के बारे में अपने मित्र के साथ होने वाले संवाद को लिखिए ।
- पाँच-पाँच हिंदी समाचार पत्रों और पत्रिकाओं के नाम लिखिए ?
- 7. प्रेमचंद जी द्वारा लिखी गई कोई दो कहानियाँ पढ़िए ।

नोट - ये गृहकार्य ए4 पेज पर लिखकर जमा करेंगे।

CLASS IX (MATHS) :

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CLASS IX (PHYSICS) :

Part-A

1.Define the following terms with example- Motion, Rest, Distance, Displacement, Speed, Velocity, Uniform motion and non-uniform motion.

2.Define average speed and average speed and average velocity. A body travels from A to B at 40m/s and from B to A at 60m/s. Calculate the average speed and average velocity.

3.What do you mean by acceleration? Explain uniform and non-uniform acceleration.

4.(a)What is distance time graph? What is the nature of distance time graph for (i) An object moving under uniform motion (ii) An object moving under non-uniform motion.

(b)What is the significance if distance time graph?

5.What do you mean by velocity time graph? Draw the nature of velocity time graph for (i) Uniform motion of a body (ii)

uniformly accelerated motion of a body (iii) Non-uniformly accelerated motion of a body.

6.Explain the significance of velocity time graph for uniformly accelerated motion?

7. Derive following equations of motion by graphical method-

(i) v = u + at (ii) $s = ut + (1/2)at^2$ (iii) $v^2 - u^2 = 2aS$

8. What do you mean by uniform circular motion? Define time period and frequency for a body under uniform circular motion.

9.An artificial satellite is moving in a circular orbit of radius 42250 km. Calculate its speed if it takes 24 hours to revolve around the earth.

10.An athlete completes one round of a circular track of diameter 200 m in 40 s. What will be the distance covered and the displacement at the end of 2 minutes 20 s.

11.A bus starting from rest moves with a uniform acceleration of 0.1 m s⁻² for 2 minutes. Find (a) The speed acquired. (b) The distance travelled.

Part-B

- Intextquestions on page 100, 102, 103, 107 and 109.
- Questions of exercises of chapter motion.

CLASS IX (SST) :

1. Solve exercise of civics chapter- 2 (Constitutional design.)

नागरिक शासन पाठ अध्याय 2 संविधान निर्माण के प्रश्नावली को हल कीजिए।

Go through textbook of Geography chapter - 2 (Physical features of India) and note down important points.

भूगोल अध्याय 2 के पाठ पुस्तक का अध्ययन कीजिए और महत्वपूर्ण बिंदुओं को लिखिए।

3. Do Map work of Geography chapter - 1 to chapter - 3.

भूगोल के अध्याय 1 से 3 तक के मानचित्र कार्य को कीजिए।

 Find out more about anyone of the revolutionary figures you have read About in the chapter History - 1.

इतिहास के अध्याय 1 में आपने जिन क्रांतिकारी व्यक्तियों के बारे में पढा है उनमें से किसी एक के बारे में और जानकारियां इकट्ठा कीजिए।

5. Collect information about Mizoram for Ek Bharat Shreshtha Bharat competition.

एक भारत श्रेष्ठ भारत प्रतियोगिता के लिए मिजोरम के बारे में जानकारी एकत्र कीजिए।

Revise all the chapters you have done during online classes.

ऑनलाइन कक्षा में पढ़े गए सभी पाठों का पुनरावृति कीजिए।

CLASS X (ENGLISH) :

- 1. To prepare 10 MCQ from first three lessons of First Flight and Footprints without Feet.
- 2. Write articles on the following:
 - a) Corona Pandemic
 - b) Terrorism
- 3. Write Stories related to the following:
 - a) Life during Lockdown
 - b) Online Classes
- 4. Write one poem on corona virus.
- 5. Learn all the questions and answers given to you during online classes.

CLASS X (HINDI) :

 कोरोना महामारी (COVID-19) का संक्रमण किस प्रकार फैलता है? इसके लक्षण तथा बचाव के उपायों को लिखें।

- किसी भी उपभोक्ता उत्पाद का एक विज्ञापन तैयार करें।
- 'नेताजी का चश्मा' पाठ के आधार पर लिखें कि देश के स्वतन्त्रता सेनानियों के प्रति आपके क्या कर्तव्य होने चाहिए?
- रचना के आधार पर वाक्य के भेदों को लिखें और उसका मनन करें।

 रसभी 11 रस और उसके स्थायी भाव तथा सभी रसों के एक-एक उदाहरण लिखें और उन्हें याद करें।

नोट- ये सभी गृह-कार्य A4 आकार के पेज पर लिखकर एक फौल्डर फ़ाइल में जमा करें।

CLASS X (MATHS) :

REAL NUMBERS Chapter1

G1. Find the HCF of 128 and 240. Using Euclidischivesian algorithm
G2. A number when divided by 61 gives 27 as quotient and 32 as zemainder. Find the number.
G.3 Find the number by which 546 should be divided to get 7 as quotient and 7 as zemainder.
GN4. Use Euclid's alivision Algorithm to show that the gen or 3m+1 for some integer m.
GN. 5. Use Euclid's division Algorithm to show that the form 3m or 3m+1 for some integer m.
GN. 5. Use Euclid's division Algorithm to show that the form 3m or 3m+1 for some integer m.
GN. 5. Use Euclid's division Algorithm to show that the form 3m or 3m+1 for some integer m.
GN. 5. Use Euclid's division Algorithm to show that the form of m, 9m+1 or 9m+8.
N. 6. Shaw that only one of the numbers (n+2), nom to (n+4) is divisible by 3.
M. 7. show that n² n is divisible by 2 for every positive integer n.

N.B. gt a= xq+ar, b= ¥q+br, c= 2q+cr, thon shouthat - remainder of axbxc is same as the remainder of arxbxxG Also, find out-theremainder of 3560. 19.95- 7× 11×13+11 a composite number 10. Write the prime factorisation of (1) 72 (1) 5005 11- Find HCF and LCM of 45, 75 and 125 12 Given that HCF (306,657)=9, Find LCM (306,65 13. Prove that JZ is irrational. 14 show that 5-53 is not rational. 15. Prove that J3+J5 is an irrational

POLYNOMIALS CHAPTER 2

al- Find the zeroes of the following Kulationship between the zeroes of	polynomials- and writy thy motthy eartficients-
(1) $\chi = 2\chi - 8$ (11) $6\chi^2 = 3$	11119412484 (10122)
Q2- Find a quadratic polynomials, + zenais are 1 cmd -1 respect	hisum and the product of whose
B.3. If a and Bare the zerow of the such that a-B=1. find the	hipolynomial par=x2-5x+k
Q. q. Verify that the numbers 2, 1 and -2. Also, while the relationship	+1 are znaw of p(n)=x3-9+2+5x
Q.5. Apply the division algorithm to fir on dividing x3-3x2+5x-3 by	id the quotient on dremainder 22-2.

- <u>Ar6</u> check whether t^2 -3 is a factor of $2t^4$ +3 t^3 -2 t^2 -9t-12. Applying division algorithm.
- B. 7. 9 (x-a) is a factor of $p(x) = x^2 mx^2 2max + ma^2$, prove that a = m + n and a = 0

Q:N:8: What must be subtracted from 6x4+7x3+26x2=25x+25 so that the resulting polynomial is exactly divisible by 3x2=x+4.

- 01.9. What must be added to 4x4-5x3-39x2-46x-2 so that the resulting polynomial is divisible by 4x2+7x+2
- B.10. If two znows of x4-6x3-26x2+138x-35 are 2±53, find other znows
- <u>G. 11</u>. On dividing a polynomial poi) = x³-3x²+x+2 by g(x), thy quotient on tremenindun are x-2 and -2x+4 respectively. Find g(x)
- Or 12 Find all the znew of 2x4-3x3-3x7-6x-2, if two of its znew and JI and -JZ .

CLASS X (BIOLOGY) :

6 Date of Commencement PLAN Or Chan X-ALB BIOLOGY SECTION "X- A+B Sammer (Pays - R. E. Chendlery) 091. What do you mean by life proceeses 82. Mention 4 major life processes occurring Alante & Animala nthesis). Write the it is 4 waw materials, 03. What is phology Paracitions, @ Sa prophyticus & the lagsing Q4. Define-a Opporte the Q5- Draw Digestive system of fuman. estions and involved conseques. steps do Draw the Adlozale mutrition in Ambaba. 86. is reprasiona Differentiate its two What Types (Acrobic & Anacrobic gueense into \$8.0 Kinete 3 ways of convertion of yourie Acod and the place in body, where cour. Alveoli. 39. Draw respiratory System up to what is excretion 9 Draw excretory unin 10. ile function Nephron). Algo white blants excrete waste ma How does differences befivee, Write Che 12 Vein and capillary. on stean by doub/e do 10 131 Tai W la tion 9 corren Function & central ner 14. Whete The O + Ses perphoral en and merrous 22 e action Detime Cex 910 Coran todocod what you mean by do ave Name endo crobe stands 8 -Blant Hormobles 181 What R 19. Dafferentiale TOOPhik and 20. Dogw activity to Show Pho an Arincipal to poplie readrophic movement · S. Choudhan 2020 (ii) Brachydacty Principal III (iii) Hunting ton

CLASS X (SST) :

- Write at least one objective question with answer from each page of Chapter -1 (HISTORY), The Rise of Nationalism in Europe.
- Write at least one objective question with answer from each page of Chapter -1 (Geography), Resources And Development.
- Write at least one objective question with answer from each page of Chapter -1 (Economics), Development.
- 4. Write few lines about the following.
 - a) Guiseppe Mazzini
 - b) Otto Van Bismarck
 - c) Romanticism
 - d) Nation State
 - e) Frankfurt Parliament
 - f) The Treaty of Vienna
- Make a project on the given topic : Forest And Wildlife resources in India (Geog. Ch2, Maximum pages-20)
- On full size chart paper draw an outline map of India shows the following.
 - a) The area where Red soil found.
 - b) The area where Black soil found.
 - c) The area where Alluvial soil found.
 - d) The area where Laterite soil found.
- 7. Learn all the questions and answers given to you during online classes.

CLASS XII (ENGLISH) :

- 1. To prepare 10 MCQ from first three lessons of Flamingo and Vistas.
- 2. Write articles on the following:
 - a) Corona Pandemic
 - b) Terrorism
- 3. Write Debates on the following:
 - a) Online classes good or bad
 - b) Lockdown is effective or not in controlling Corona Pandemic
- 4. Write one poem on corona virus.
- 5. Learn all the questions and answers given to you during online classes.

CLASS XII (HINDI) :

1.कोरोना महामारी (COVID-19) का संक्रमण किस प्रकार फैलता है? इसके लक्षण तथा बचाव के उपायों को लिखें।

- किसी एक साहित्यिक उपन्यास को पढ़ें और उसकी समीक्षा लिखें।
- 3. तुलसीदास की काव्यागत विशेषताओं को लिखें।

नोट- ये सभी गृह-कार्य A4 आकार के पेज पर लिखकर एक फोल्डर फ़ाइल में जमा करें।

CLASS XII (MATHS) :

RELATIONS AND FUNCTIONS Chapter1

MCQs

- Let Z be the set of integers and R be the relation defined in Z such that aRb if a b is divisible by 3. Then R partitions the set Z into how many pairwise disjoint subsets?
 A)4 B)3 C)2 D)0
- Let T be the set of all triangles in the Euclidean plane, and let a relation R on T be defined as aRb if a is congruent to b . a, b ∈T. Then R is

 (A) reflexive but not transitive
 (B) transitive but not symmetric
 (C) equivalence
 (D) none of these
- 3. Let $f: \mathbb{R} \to \mathbb{R}$ be defined by $f(x) = 3x^2 5$ and $g: \mathbb{R} \to \mathbb{R}$ by $g(x) = \frac{x}{x^2 + 1}$, then $g \circ f$ is (A) $\frac{3x^2 - 5}{9x^4 - 30x^2 + 26}$ (B) $\frac{3x^2 - 5}{9x^4 - 6x^2 + 26}$ (C) $\frac{3x^2}{x^4 + 2x^2 - 4}$ (D) $\frac{3x^2}{9x^4 - 30x^2 - 2}$
- 4. Let f: N→ R be the function defined by f(x) = 2x-1/2 and g: Q → □R be another function defined by g(x) = x + 2. Then (g o f)(3/2)

 (A) 1
 (B) -1
 (C) 7/2
 (D) none of these

 5. Let f: R → □R be defined by f(x) = {2x, x > 3 / (x + x) ≤ 3 / (x + x) ≤ 3 / (x + x) ≤ 1 / (x + x) ≤ 3 / (x + x) ≤ 1 / (x + x) ≤ 3 / (x + x) ≤ 1 / (x + x)
 6. Let R be the relation on set of all straight lines in a plane such that l₁ R l₂ ⇔ l₁ ⊥ l₂. Then R is

 (i) symmetric
 (ii) reflexive
 (iii) transitive
 (iv) an equivalence
 - (i) symmetric (ii) relexive (iii) transitive (iv) an equivalence relation7. If R is the largest equivalence relation on a set A and S be any relation on A, then

 - (i) $\frac{1}{3x-5}$ (ii) $\frac{x+5}{3}$ (iii) does not exists (iv) 3x+510. The number of binary operations that can be defined on a set of 2 elements is (i) 8 (ii) 4 (iii) 16 (iv) 64

Very Short Answers (1 Mark)

- 1. Find fog, if $f(x) = 8x^3$ and $g(x) = x^{1/3}$. Ans: 8x
- 2. Show that binary operation *: $RxR \rightarrow R$ given by a * b = (a+b)/2 , a, b belongs to R is not associative.
- 3. Show that the function $f: N \rightarrow N$, given by f(1) = f(2) = 1 and f(x) = x 1,

for every x > 2, is onto but not one-one.

- 4. Let $f: \{1, 3, 4\} \rightarrow \{1, 2, 5\}$ and $g: \{1, 2, 5\} \rightarrow \{1, 3\}$ be given by $f = \{(1, 2), (3, 5), (4, 1)\}$ and $g = \{(1, 3), (2, 3), (5, 1)\}$. Write down gof. Ans: $\{(1,3), (3,1), (4,3)\}$
- 5. Write the conditions for symmetric Relations. Ans: if $(a,b) \in R$ then $(b,a) \in R$
- 6. If $f: \mathbb{R} \to \mathbb{R}$ be given by $f(x) = (3-x^3)^{\frac{1}{3}}$, find the value of fof (x). Ans: x 7. Let * be a binary operation defined by $a^* b = 2a + b - 3$. Find $(3^*4)^*5$
- 8. f(x) = x+7 and g(x) = x-7 where $x \in R$ find fog(7)
- 9. Let f: $R \rightarrow R$ be a function defined as $f(x) = 1 + x^2$. Is f one-one? Ans: No
- 10. Is function f: $\{1,2,3,4\} \rightarrow \{2,4,5,7\}$ given by

 $f = \{(1,2), (2,5), (3,4), (4,7)\}$ one-one?

- 11. Let * be a binary operation defined on Z by $a^* b = a b$. Is * commutative? Ans: No
- 12. Let L be the set of all straight lines in a given plane. Let R be a relation on L be defined as

 $xRy \Leftrightarrow x \perp y$ for x, y $\in L$. Is R transitive?

Short Answers (4 Marks)

1. Let f:R-{-3/5} \rightarrow R be a function defined as f(x)= (5x +3)⁻¹, find f⁻¹. Ans : f⁻¹(y) = $\frac{1-3y}{5y}$

- 2. Show that the function f: $R \rightarrow R$ define by f(x) = (2x-1)/3, $x \in R$ is one-one and onto function. Also Ans: $f^{-1}(y) = \frac{3y+1}{2}$ find the Inverse of the function f.
- 3. Let * be the operation on the set {1, 2, 3, 4, 5} defined by a * b = H.C.F. (a & b). Form composition table & state whether * is binary operation or not. Also, check for commutative & associative properties. Does identity element exist? Justify your answer.
- 4. Check whether the relation R defined in the set {1, 2, 3, 4, 5, 6} as $\mathbf{R} = \{(a, b) : b = a + 1\}$ is reflexive, symmetric or transitive. Ans: none
- 5. Consider $f: N \rightarrow N$, $g: N \rightarrow N$ and $h: N \rightarrow R$ defined as f(x) = 2x, g(y) = 3y + 4 and $h(z) = \sin z$, $\forall x, y$ and z in N. Show that ho(gof) = (hog) of.
- 6. Show that the relation R in the set R of real numbers, defined as $R = \{(a, b) : a \le b^2\}$ is neither reflexive nor symmetric nor transitive.
- 7. Let * be a binary operation on the set Q of rational numbers as follows : a * b = a + ab
- (i) Is binary operations is commutative?
- (ii) Is binary operation is associative?

Ans:16 Ans: 7

Ans: Yes

ANS: No

Justify your answer.

- Let 'T' be the set of all triangles in a plane with R a relation in T given by: $R = \{(T_1, T_2): T_1 \text{ is congruent t} \}$ T_2 . Show that T is equivalence relation.
 - 9. Show that the relation R in the set $A = \{1, 2, 3, 4, 5\}$ given by $R = \{(a, b): a-b \text{ is even}\}$, is an equivalence relation.
 - 10. Let A = R {3} and B = R {1}. Consider the function f: A \rightarrow B defined by f(x) = $\frac{x-2}{x-3}$. Is for one and onto? Justify your answer.
 - 11. Show that f: N \rightarrow N, given by f(x) = $\begin{cases} x 1, & \text{if } x \text{ is even} \\ x + 1, & \text{if } x \text{ is odd} \end{cases}$ is both one-one and onto?

- 1. Consider $f : \mathbb{R}^+ \to [-5, \infty)$ given by $f(x) = x^2 5$. Show that f is invertible and $f^{-1}(y) = \sqrt{(y+5)}$, where \mathbb{R}^+ is the set of all non-neg. real numbers. 2. Consider $f : \mathbb{R}^+ \to [-5, \infty)$ given by $f(x) = 9x^2 + 6x 5$. Show that f is invertible and
 - $f^{-1}(y) = \frac{\sqrt{y+6}-1}{3}$, where R⁺ is the set of all non-neg. real numbers.
- 3. Binary operation * on Z is defined as a*b=a+b+1

Is * (i) commutative (ii) associative also find identity element and inverse element of 5. Ans: (i) commutative (ii) associative identity element -1 and inverse of 5 is -7

INVERSE TRIGONOMETRIC FUNCIONS CHAPTER 2 MCQs

- The value of $\sin^{-1}\left(\cos\left(\frac{33\pi}{5}\right)\right)$ A) $\frac{3\pi}{5}$ B) $\frac{-7\pi}{5}$ C) $\frac{\pi}{10}$ D) $\frac{-\pi}{10}$ If $\tan^{-1}x + \tan^{-1}y = \frac{4\pi}{5}$, the value of $\cot^{-1}x + \cot^{-1}y$ is A) $\frac{\pi}{5}$ B) $\frac{2\pi}{5}$ C) $\frac{3\pi}{5}$ D) π If $3\tan^{-1}x + \cot^{-1}x = \pi$, then x equals to 1.
- 2.
- 3.
 - (C) -1 $(D)^{\frac{1}{2}}$ (A) 0 (B) 1
- What is principal value branch of $\cos^{-1} x$? 4. B) $(0, \pi)$ C) $[0, \pi]$ D) $(0, \pi) - \{\frac{\pi}{2}\}$ A) $\left[\frac{-\pi}{2}, \frac{\pi}{2}\right]$

5.	The value	e of $cos^{-1}(cos^{-1})$	$os\left(\frac{7}{25}\right)$				
	A) $\frac{25}{24}$	B) $\frac{25}{27}$		C) $\frac{24}{25}$	D) $\frac{7}{24}$		
6.	The value	e of tan (cos	$-1\frac{3}{5} + ta$	$\operatorname{an}^{-1}\frac{1}{4}$ is			
	(i) $\frac{19}{8}$	(ii) 8	-	(iii) ¹⁹ / ₁₂		(iv) $\frac{3}{4}$	
7.	If 4 cos	$x^{-1} x + \sin^{-1} x$	$x = \pi$, the	en the value of	of x is		
	(i)	3 2	(ii) $\frac{1}{\sqrt{2}}$	Ē	(iii)	$\frac{\sqrt{3}}{2}$	(iv) $\frac{2}{\sqrt{3}}$
8.	The value	e of sin ⁻¹ (co	$s \frac{33\pi}{5}$ is				
	(i)	<u>3π</u> 5	(ii)	$-\frac{\pi}{10}$	(iii)	π 10	(iv) $\frac{7\pi}{5}$
9.	The valu	le of $\cot\left(\frac{\pi}{4}\right)$	2 cot ⁻¹	3) is			
	(i) 7		(ii)	6	(iii)	5	(iv) none of these
10	. The num	ber of solution	ns of the	equation tan	$^{-1}2x + ta$	$n^{-1} 3x = \frac{\pi}{4}$	
	(i)	0	(ii)	1	(iii)	3	(iv) none of these

	1. Write the domain of sec ⁻¹ x <u>Very Short Answers (1 Mark)</u>	Ans: R- (-1,1)
	^{2.} What is the principal value of $\cos^{-1}(\cos 2\pi/3) + \sin^{-1}(\sin 2\pi/3)$?	Ans: π
	3. What is the principal value of $\cos^{-1}(\cos\frac{\pi}{7})$?	Ans: π / 7
	4. Write the value of $\sin^{-1} x + \cos^{-1} x$ Ans: $\pi / 2$	
	5. Find the principal value of sin $\left(-\frac{1}{2}\right)$	Ans: $-\pi/6$
	6. What is the principal value of $\cos^{-1}(\cos\frac{13\pi}{6})$?	Ans: $\pi / 6$
	7. $\tan^{-1}\sqrt{3} - \sec^{-1}(-2)$.	ANS: - π / 3
	Short Answers (4Marks)	
1.	Prove the following $\cot^{-1} \frac{\sqrt{(1+\sin x)} + \sqrt{(1-\sin x)}}{\sqrt{(1+\sin x)} - \sqrt{(1-\sin x)}} = \frac{x}{2}$	
2.	Solve for x	
	$2 \tan^{-1} (\cos x) = \tan^{-1} (2 \csc x)$ Ans: 7	τ/4
3.	Prove that $\tan^{-1}\frac{1}{5} + \tan^{-1}\frac{1}{7} + \tan^{-1}\frac{1}{3} + \tan^{-1}\frac{1}{8} = \frac{\pi}{4}$	
4.	Prove that $\tan^{-1}(63/16) = \sin^{-1}(5/13) + \cos^{-1}(3/5)$	
5.	Prove that $\tan^{-1}\left[\frac{\sqrt{1+x^2}+\sqrt{1-x^2}}{\sqrt{1+x^2}-\sqrt{1-x^2}}\right] = \frac{\pi}{4} + \frac{1}{2}\cos^{-1}x^2$	

6. Prove that: $\tan^{-1}\left(\frac{63}{16}\right) = \sin^{-1}\left(\frac{5}{13}\right) + \cos^{-1}\left(\frac{3}{15}\right)$. 7. Solve : $\tan^{-1}2x + \tan^{-1}3x = \pi/4$ Ans;1/6 8. If $\tan^{-1}\frac{x-1}{x-2} + \tan^{-1}\frac{x+1}{x+2} = \frac{\pi}{4}$, then find the value of x. ANS: $\pm \frac{1}{\sqrt{2}}$

CLASS XII (PHYSICS) :

- Questions of exercises of NCERT text book of chapters
 - 1. Electric charges and field.
 - 2. Electric potential and capacitances.
 - 3. Current electricity.
- Along with all questions/assignments given till the date.

CLASS XII (BIOLOGY):

w/onouunary Sir

Vacation Home work given to Class XII **Biology-**16:04

Write short notes on the following-1.Menstrual cycle. 2.Gestation. 3.Parturition. 4.Lactation.

Now Ans. the following-1.Write Botanical name of Pea. 2. Who is the father of Genetic? Q3.write 3 laws of Mendel. Q.5. Which term was applied by Mendel instead of Gene? 16:04

2nd round Q.1.What,s Traits? Q.2What is the Numbers of Chromosome in pea cells (in each body cell) Q.3.Define Allel. Q.4.What is Dominant & Recessive Gene? Q.4. What is hybrid? Q.5 Write phenotypic ratio of mono/ dihybrid cross.

16:04

16:04

Ky/Choudhary Sir

Kv/Choudhary Sir example \$5. phemot ic sucr in audio clip 16:04

Q.1.what is Codominance? Put example. Q2.If a man with Blood group A married with a woman having B.Gr. B, What is the Blood Group of offspring (child).Why is it happen?

Q3. Is B.Grp i , without sugar dominant or recursive ?

Q.4. What is sex determination?

Q.5 If a Black foul is mated with white

fowl, what is the colour of progeny? 16:04

Q.1.How can U dipict the inheritance of two genes? Show

with sketch & make its cheaker Board. Q.2.Tabulate the types of progeny with different Blood Group by taking blood Group of male & female parent such as A,B &O on their I gene. 16:04

Q.3.Sketch sex determination in Human & Drosophylla(fruit fly).

Q.4.Write 4 points about Chromosomal theory of inheritance.(see page 81, table 5.8-5.10).

Q.5.What do you mean by Sex linked disease or disorder.

Give few examples & their cause.

16:04

Office copy Home work summited by R.S.Chy,PGT(Bio) 16:06

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CLASS XII (COMPUTER SCIENCE) :

Basic programs:

- 1. Write a program in python to ask the user to input distance and time as integer values and print the speed of vehicle.
- 2. Write a program in python that ask the users to input temperature in Celsius and print the temperature in Kelvin and Fahrenheit.
- 3. Write a program in python that ask the users to input the length, breadth and height of a Cuboid and display its surface area and volume.
- 4. Write a program in python that ask the user to input the marks in physics, chemistry and mathematics and display the percentage of the student. It should also display passed with distinction if the percentage is greater than or equal to 75.
- 5. Write a program in python that ask the user to input a number and display table of that number.
- 6. Write a program in python that ask the users to input a number and display all the numbers that are multiple of either 3 or 8 up to the given number.
- 7. Write a program in python to find the HCF and LCM of two numbers.
- 8. Write a program in python to find whether an entered number is prime or not.
- 9. Write a program in python to find prime numbers up to an entered number.
- 10. Write a program in python that generates a random number between 1 and 6 (simulates a dice).

List

- Write a program in python that initializes an integer list of 10 elements and display all values on same line separated by "_".
 - 12. Write a program in python that ask the users to input 10 elements. Store all the elements in a list and display the values in a single line separated by space. Also, print the minimum and maximum value entered.
 - 13. Write a program in python that ask the users to input 20 numbers, store the numbers into two different lists, the first containing only even numbers and the second containing only odd numbers. Find the sum of numbers in each list.
 - 14. Write a program in python to input ten numbers. If the sum of them is even, find the maximum out of three, otherwise, find the minimum out of three. Also, find the second largest number in the list.

User-defined Functions

- 15. Write a program to find the factorial of a number without using recursion.
- 16. Write a program find the nth term of Fibonacci series without using recursion.
- 17. Write a program print the n terms of Fibonacci series when the number is passed as an argument to a user-defined function.
- Write a program in python to print the reverse of a number passed as an argument to a user-defined function.
- 19. Write a program in python to print the sum of digits of a number passed as an argument to a userdefined function.
- 20. Write a program in python to find the GCD and LCM of two numbers when the numbers are passed as arguments to a user-defined function.

Recursion

 Write a program find the factorial of a number when the number is passed as an argument to a userdefined recursive function.

- 22. Write a program to print the n terms of Fibonacci series when the number is passed as an argument to a user-defined recursive function.
- 23. Write a program in python to print the sum of digits using recursion.
- 24. Write a program in python to find the sum of all elements in a list using recursion.
- 25. Write a program in python to find whether a string is palindrome or not using recursion.
- 26. Write a program in python to find the GCD and LCM of two numbers using recursion.