6th Class English Winter Break <u>M. M. W</u> Do in file folders a) The goose that laid the golden egg b) The have and the lion I the ass and his load of salt 2.3 The monkey and the capselles collage making as Kalpana Chawla b) Decert Animals

3. Read & Write chapter 8, 9, 10 of both books. QAns + exercises

4. White 30 opposites. with contences
5. White 30 adjectives use them in your own sentences.
6. Read any book & white The book heriew.

2.6%		
- 7 ⁷ 0)	421-6631 (12-61) (31)	
	नववर्ष रिव किस्मस् पर ानबन्ध लिखिए।	
2	राम के वन जान की घटना का वर्णन की जए	
3	10 पेज सुलेख लिखिए 1 र ० ०	
<u>ц</u>	उन्याने परिवार के सदस्यों के कार्यों की सूची बन	1321
S	हिन्दी में प्रार्थना, प्रतिस्ना लिखकर याद को जिए	
6	में में रे में र	• નુ
	सं भ लिखकर अक्यास का जिए	
7	पाठ के. 11,12,13,14 वसन्त भाग-1 4151 के।	
	अध्ययन की जिए।	
8	02 लघु-कविता लिखकर याद काजिए	
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With the set of the set of the set	usee uit – oome voor eine too akke – oor opensoor van bestelendustelingen op het de soort gebeurge is de soort oorgen	Auffahltables, comparis

Date / / Page शीतकालीन अत्वकाश घटटकार्थ कहा - छठती (क) विषय - हिन्दी 1. प्रतिदिन पर शत्द शुतलेखा 2. प्रतिदिन एक पेज सुलेखा 3. प्रतिदिन एक पेज पाचना 4. केहा का वर्ज बदलवाने के लिए उखने प्राचार्थ को प्रार्थना चन लिखे। 3-4-संवाद लेखन -5 -पुकानदार ब्राहक के वीच पिता और पुत्र के बीच 6- अनुच्छेद लेखन -नवत्र शीत मेहतु के आगमन किसमस डे 7- शादकोब तथार करें। अपस्तर्घ एवं प्रत्या के 10-10 उपाहरू लिरकी। 8-

Commad by CompComman

के गतिः उन्दीर शीतकालीन अवकारा गृहकार्यम् 2019 क्रिया - मध्ती (संस्कृत) बालक, बालिका, पुष्प शब्दरूप लिखकर याद कीजिए। १ - ४० (१-८०) तक राख्या संस्कृत में लिखिए। परु धातु के चारों लकार लिखें व याद कीजिए। संस्कृत प्रतिज्ञा व संस्कृत प्रार्थना छात्र-डायरी से लिखकर ۱ 2 3 4 याद की जिए। प्रिंदुसाधनम्, दशमः ल्यम् असे, पुर्धारसतः एव कृषिकाः कर्मतीराः पार्धेका अन्धे से पढ़िए १-२० (१-२०) पर्यन्तं संख्या याद दीजिए। ०२ रत्नाढु याद करके लिखिए उपर्य संहित। बारहाझरा क- जतक लिखिए। कि.की. कि.की. ----ठ5 पेज सुलेख लिखिए। 2 7 8 9 1D

KENDRIYA VIDYALAYA NO.1 (IInd shift) INDORE Holyday Home work December 2019 CLASS - VI

MATHEMATICS

1 In a bar graph space between rectangles is always (a) Unequal (b) Increasing (c) decreasing (d) equal

2 In an Mathematics test, the following marks were obtained by 40 students. Arrange these marks in a table using tally marks.

3 Total number of animals in five villages are as follows:

Village A: 80

Village B: 120

Village C: 90

Village D: 40

11

Village E: 60 Sto represent 10 animals and answer the following questions: Prepare a pictograph of these animals using one symbol

(a) How many symbols represent animals of village E?

(b) Which village has the maximum number of animals? (c) Which village has more animals: village A or village C?

- 4 The marks out of 100 obtained by 20 children are given below:
- 80.40.20.60.50.50.50,40,90,70,50,60,20,50,60,70,40,90,70,30Find the number of children who obtained (a) Marks more than or equal to 50 (b) Marks below 20

5 Draw a bar graph for the following data taki	ng scale of 1unit length=5 students
Preferred activity	Number of students
Playing	45
Reading story book	30
Watching T.V.	20
Listening to music	10
Painting	15

6 If length of side of a square 15 cm then find its perimeter

7 The perimeter of a regular pentagon is 100 cm. How long is its each side?

- 8 The area of a rectangular is 50m long is 450 sq m. Find its width and perimeter also
- 9 A floor is 5m long and 4m wide. A square carpet of side 3m is laid on the floor. Find area of the floor that is not carpated
- 10 Perimeter of a regular pentagon with each side 2cm is
 - Find the perimeter of the figures given below (a)A pentagon of each side=5cm (b)A parallelogram of sides 2cm and 3cm respectively



- 12 A room is 4m long and 3m wide. How many square metres of carpet is needed to cover the floor of the room? Also find the cost of the carpet if 1square metre costs Rs.20.
- 13 If there are 50 mangoes in a box, how will you write the total number of mangoes in terms of the number of boxes? (Use b for number of boxes)
- 14 Which out of the following expression with numbers only? (i) y + 3 (ii) (7 8Z) (iii) 5 (iv) 3x
- 15 Write in expression:(i) 12 subtracted from z (ii) y divided by 8(iii) x multiplied by 10 and then 7 is added to the product
- 16 Pick out the solution from Values given in the bracket next to each equation show that the other values do not satisfy the equation
- (i) 5m = 60 (10,5,12,15)(ii) n + 12 = 20 (12,8,20,0)(iii) p 5 = 5 (0,10,5,-5)

17 Choose the correct solution of the equation y-5=5

- 18 Give expressions for the following cases:(a) 5 added to p (b) -p is multiplied by 7
- 19 Answer the following by taking Sarita's present age to be "x" years (a) What will be her age 5 years from now?
- (b) What was her age 5 years back? (c) Sarita's grandfather is 5 times her age. What is the age of her grandfather?
- 20 Pick out the correct solution from the given values in the bracket next to each equation (a)p/2=9 (9,7,18,11) (b)n+12=15 (12,3,27,8)

21 The expression for 15 subtracted from 5m is

- 22 Give expression for a) y is multiplied by -7 b) 4 added to p
- 23 Present age of father is 42 years and that of his son is 14 years. Find the ratio of
- (a) Present age of father to the present age of son (b) Age of father to the age of son when son was 10 years old.
- 24 Rama is drawing a dot rangoli. She has 6 dots in a row. How many dots will her rangoli have for 'r' rows? How many dots are there if there are (a) 8 rows b) 10 rows?
- 25 Find ratio 81 to 108
- 26 If 5:4:: 30: x, then find the value of x
- 27 There are 45 persons working in an office. If the number of females is 25 and the remaining are males, find the ratio of: (a) The number of females to number of males. (b) The number of males to number of females.
- 28 The weight of 72 books is 9 kg, what is the weight of 40 such books?
- Choose the correct equivalent ratio of 3:2 (a)12:8 (b) 3:4 (c)8:12 (d)5:6 29
- 30 Find the ratio of (a) 30 minutes to 2 hours (b) 55 paise to Re,1
- 31 The weight of 72 books is 9 kg. What is the weight of 40 such books?
- 32 In a college, out of 5000 students, 2000 are girls. Find the ratio of

(a)Number of girls to the total number of students. (b) Number of boys to the number of girls.

33 The ratio 500ml to 2 litres is A) 500:2 B) 1:4 D) 5:2 C) 1:2

34 If the cost of 12 books is Rs 96, then the cost of one book is A) Rs 8 B) Rs 6 C) Rs 4 D) Rs 10

- 35 Determine whether 30, 40, 45 and 60 are in proportion or not?
- 36 Divide 30 pens between Raju and Ravi in the ratio 3:2
- 37 Are the ratios 25g : 30g and 40kg : 48kg in proportion ? If they are in proportion write the middle terms and extreme terms.

CLASS - VI SCIENCE Holiday H.W (WINTER BREAK) () Page - 106 (Motion and Measurement) 0.3,6,10,4. Drage 110 (Light, shadows and Reflection) Make your own pinhole camera using 02 boxes and tracing paper. (3) Page - 116, 117, 119. (Electricity and Circuits) Draw a peractice diagrams. fig. 12.1, 12.2, 12.6. (4) Page - 123 Q. 1, 3, 7.magnete 2 different Draw the diagrams of shapes. (lage. 126).

S. Q. J. dharma

WINTER BREAK (SHIFT=II) Closs-JTA, B PAGE NO .: DATE: CLASS teacher= Anpana pyneldon Who was the founder of Buddism I & you stind . Sic . Who is the head of a police station is not ust 14. 2.10 What is the main accupation of willagens I didid ·AC 3. Which is the largest confinent of the world of 4. 1 1 Which two major rivers fall into the Arabian Dear 5. Sec. 4 List any two world mivers of a patwarin 6. What were the problems that Astaka wanted to solve by 7. introducing abamma Dellos de trapiceares toppedand Hous do women benifit under Hindy Succession CAmendment) 8. Act 2005 Low Common Lo White the non- Karm yourk of villages 7994 H still 9. Webst are the different types of mountains? 10. Why is fattshadweep known as cord island 11. List four ways in which the work of the Municipal carparation 12. affects the life of the city-dwellens? Which is the Smallest continent of the world? 13. Which country Share land boundaries with seven countries? 14. Christmas is celebrated in Symmer 15. What is the coost of the police? 16. Write the name of the major physical division of India? 17. What is the world of Tehsildar ? Explain. 18. What were the main beartures of Bhaldtin 19. Measuring land and Reeping land records is the main work 20 alg The mountain range that separates Europe from Asia 21. 'D Name the major continents of the earth. 22.

and plan with a fill of the ALATZ - HOLD PAGE NO .: DATE: White any 3 uses ab Mountain. Ily set see and 23. for whose workship Mathurd was on inportant Centeren 24. Which is the largest ocean of the Earth? 25. Why are the river plain thickly population? 26. and included att affin Mid and in Minda Dearcession Act 2005) 27. Circular in to conside Arrow out pro fail 27. How do women benifit under the new love tout Panchquat President is called enough an ularing 28. What were the means adapted by Ashoka to spread the Messa-29. -ge af Oharman Write three worlds af gram panchayat . It still 30. What is the difference between a mountain and plateau? 31. Charles broken might agribud in adal with depend ourses and to? * C1 3. H. Assido Aridia 14 2 Mars But To Mound .1.1 Wiedur to Bleas In the relation of the 1.101 manus to the areas allabraine Sitt Manager to spont a contrar site

7th class English Winter Break M.M.W. 1. Story writing. a) The capselles & the nonkey b) The stag & his beautiful hours. S The have and the tortoise d) The greedy dog. 2. Collage making: information + picture in H.H.W notebook. a, Dr. A. P. J. Abdul Kalam b, fixe: Feiend & foe. 3 30 opposites write & learn 4 30 adjectives write & learn 5 use them in sentences. 5. Read any book & weile the book review issued from library 6. Read & Whete & Ans of chapter 6,7,8,9 of both books in your mote book.

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Date / / Page शीतकालीन अवकाश ग्रहकाय कहा (सातवी) विषय (हिन्दी) 4-प्रतिदिन समाचार - पत्र का वाचन वाल महाभारत पाठ 20 से उठ तक का वाचन 2 याठ रूर से पाठ रा तक के प्रश्न उतर याद करो 3. अनुच्हेद लिखें -4. नववर्ष किसमस डे गठातंत्र दिवस् सँवाद लेखन - मॉ आदे बेटी के बीच 5. आप और आपके मिन्न के बीच पुस्तकालय में नई बाल- पत्रिकार्ट मँगवाने के लिए अपने प्राचार्य को पत्र लिखिए। 6-शब्दकीय तैयार करी। 7-21

	Jisos onto 5
	१११२ शीतकालीन अवकारा गृहेसायत्रा गि
	here here here here
	ABU- ACTH CAAPDAL HILL TO PULL AND
1	WEILIN H LEXA WILL AN LOZAD ON A STAR
1	पत्त, तत, किम शब्द रेग् गल्खकर याद (भरन्दक रेग) केरे
) + 62 h	विदयाधनम् पाठा से ०५ रलोग कि खेर रव याद कर 1
3	सर्कृत प्रार्थता, प्रतिला एव रारकृत गरीत (ति खे)
	कर्मन दरामः त्यम् प्राप्ति प्राप्ति कर्मन
կ	विदयाद्यतम् र्यम्बायो तर्ददुनयः तिश्व बन्धुत्वम्,
	अहमाप विद्यालय गामिस्यामि (पार्डी के अन्द्री से समसंहर
	प्रनोत्तर कार्यादार्यी कि के के कार्य होके देव द
5	वार हा हारा ले रिवेर - भे तक 221-
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HOLIDAY H.W (Winter Break). CLASS - VII. SCIENCE () Attempt 03 PISA test items (scientific literacy) provided to you (photocopy given). (2) Draw and practice the diagrams -(9) Page. 123. fiq. 11.3. (b) l'age -124, 127 Fig - 11.4; 11.6. 15) Page - 136, 137. Fig - 12.6, 12.7, 12.8, 12.9, 12.10 (d) Page - 138; 139. Fig. 12.11, 12.13, 12.14; 12.15 (c) Page - 161 (Electric Current 2its Effects). fig - Components 2 Symbols. Page - 163 -Fig. 14-8 ' (3) lage - 131, 132 (Transportation). Q, 1, 5, 8, 11 (4) Page - 141 (Reperoduction) 0.2,6,9,4. (5) Page - 156, 157 (Motion 2 Time). Q. 3, 4, 6, 7 (6) Page- 171, Q: 8, 2, 3, 4. D'Make your own stethoscope using funnel, tube 2 balloon.

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THIRD ROUND OF TEST ITEMS SCIENTIFIC LITERACY

Test item 1: Bee Colony Collapse Disorder

Unit Overview

This released unit deals with the phenomenon known as bee colony collapse disorder. The stimulus materials include a short text introducing the phenomenon and a graph showing results of a study investigating the relationship between the insecticide imidacloprid and bee colony collapse disorder.

Bee Colony Collapse Disorder Item #1

PISA 2015

Bee Colony Collapse Disorder Question 175

Refer to "Bee Colony Collapse Disorder" on the right: Type your answer to the question.

Understanding colony collapse disorder is important for people who keep and study bees, but colony collapse disorder also has an effect beyond the bees. People who study birds have identified an impact. The sunflower is a food source for both bees and certain birds. Bees feed on the nectar of the sunflower, while the birds feed on the seeds.

Given this relationship, why might the disappearance of bees result in a decline in the bird population?

BEE COLONY COLLAPSE DISORDER

Sociali Sharma

An alarming "henomenon is threatening bee colonies around the world. This phenomenon is called colony collapse disorder. Colony collapse occurs when bees abandon the beenive. Separated from the hive, the bees die, so colony collapse disorder has caused the death of tens of billions of bees. Researchers believe that there are a number of causes for colony collapse.





Students are asked to select from among three options in each drop-down menu. Those options include:

- 1. collapse of bee colonies
- 2. concentration of imidacloprid in food
- 3. bee immunity to imidacloprid



Bee Colony Collapse Disorder Question 4 15	BEE COLONY COLLAPSE DISORDER Exposure to Imidacloprid		
efer to "Exposure to Imidacioprid" on the right. Type our answer to the question.	Scientists believe that there are multiple causes for colony collapse disorder. One possible cause is the insecticide imidacloprid, which may cause bees to lose their sense of orientation when outside the hive. Researchers tested whether exposure to imidacloprid leads to colony collapse. In a number of hives, they added the insecticide to the bees rood for three weeks. Different hives were exposed to different concentrations of the insecticide, measured in micrograms of insecticide per kilogram of food (µg/kg). Some hives were not exposed to any insecticide.		
bok at the result in week 20 for the hives that the searchers did not expose to imidacloprid (0 µg/kg). That does it indicate about causes of collapse among e studied colonies?			
	None of the colonies collapsed immediately after exposure to the insecticide. However, by week 14, some of the hives had been abandoned. The following graph records the observed results:		
	100% Sec. 75%		
	Ο p 0 μg/kg 20 μg/kg 20 μg/kg 20 μg/kg 20 μg/kg 400 μg/kg		
	0% 0 10 12 14 16 18 20 22		
	Number of Weeks After Exposure to Insecticide		

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Test Item 2: Fossil Fuels

Unit Overview

This released unit explores the relationship between the burning of fossil fuels and CO₂ levels in the atmosphere. The stimulus material includes a diagram illustrating how carbon cycles in the environment and a short text describing strategies for reducing the amount of CO₂ released into the atmosphere, a table comparing the characteristics of ethanol and petroleum when used as fuel, and a graph illustrating the results of a mathematical model that calculates carbon capture and storage at three different ocean depths.

Fossil Fuels Item #1



215A 2	015			
Fossil Fu	els		FOSSIL FUELS	
Refer to "Fassil Fuels" on the notif Turne your program			Many power plants burn carbon-based fuel and ernit carbon dioxide (CO ₂). CO ₂ released into the atmosphere has a negative impact on global climate. Engineers have used different strategies to reduce the amount of CO ₂ released into the atmosphere	
the ques	tions.	ie i po jour ainitia		
Despite the advantages of biofuels for the environment, fossil fuels are still widely used. The following table			One such strategy is to burn biofuels instead of fossil fuels. While fossil fuels come from long-dead organisms, biofuel comes from plants that lived and died recently.	
etroleum a iel, while et	nd ethanol are burned. And ethanol are burned. Annol is a biofuel.	eased when Petroleum is a fossil	Another strategy involves trapping a portion of the $\rm CO_2$ emitted by power plants and storing it deep underground or in the ocean. This strategy is called carbon capture and storage.	
Fuel Source	Energy Released (kJ' of energyig of huel)	Carbon Dioxide Released (mg of CO2/kJ of energy produced by the fuel)		
Petroleum	43.6	78	CO ₂ Used During Pholosynthesis	
Ethanol	27.3	59	Biofuel Released to Atmosphere	
According to According to Accor) the table, why might s stead of ethanol, even	comecne prefer using if their cost is the	Power Plant Fuels	
According to dvartage o	i the table, what is an o fusing ethanol instead	environmental of petroleum?	Fossil Fuel Stored in Ocean	
15.			사망은 동안에 가져야 한다. 이는 것은 것은 것이라. 것은 것은 것이라. 같은 것 같은 것은 것은 것은 것이다. 것은 것은 것은 것은 것은 것은 것은 것을 받았는	



Test item 3: Volcanic Eruptions

Unit Overview

This released unit focuses on the distribution pattern of volcanoes and the impact of volcanic eruptions on climate and the atmosphere. Stimulus materials include a map showing the location of volcanoes and earthquakes around the globe and graphs illustrating the impact that volcanic eruptions have on the amount of solar radiation that reaches Earth's surface and on carbon dioxide concentrations in the atmosphere.

Volcanic Eruptions Item #1



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C 11 C C

Volcanic Eruptions Item #3



11

VILA Sest Shift II Learn and write the answers of questions, fill in the blacks, Match the column and True false in this note book of these chapters' flist) Chapter, 6,7,8 civics - chapter 6, 7,8 Geo. Graptin - G, 718. hocate all the states with their capitals on the out ling map of India.

SHIFT-II) SO. SCINCE HOLIDAY HOMEWORK SHIFT-IL CLASS -> VIL B WINTER SUB TEACHER = ARPANA MAM VECATION HOTIDAY HOMEWORK kolkata is located on the bank of which since who well alluans? what ways is a howker different from a shop Owner ? efine media ? in what ways do the needla play 0.84 in a dun important 95 what are the four means of. lyans pota ry tw thods ntion Su understand by the ivo 06 what do why building brands in central list Two reasons advirtising? temple communicate the invportance HOW elid of King 7 Juplain is what ways the Banjaras were emportant to 08 economy in the pa what do you understand by the word "brand", give any two wason, why building brand is advertising to a what usure the major beliefs and practice of the an Sefine nectio in what ways does the media play on infortant vole in a climocracy ?. 9 mention what are the four means of transport two munits of incitivarys howker different Shop owner In what ways is a In what ways the history of the gonds different from 914 that of the above I usure there any similarities of media what is print media I state the responsibilities of media Distinguish between - tropical mergien and tropical Q15 Q16 cliciduous forest. My Note Book

P. No: QIT what are prairies ? where are they found? why the provides of the profite? wold? Q12 mention the uses of coniferences forest. g13 who was swapna? why did the take a lone from a trader and what promise was made by here to trader) g20 what is manipravalarm? name the book weritten in the longuage? QB what are occur coverent? name the different type of 921 any and 922 while are the major cities located on the river ganged 923 The provises are known as the granaries' of the world 'which 924 mosses and lichens are found in 925 which are the two factors on which the growth of regelation mostly depender? ges what is the weekly markel 9. 927 why did people Juoin dist and lands visit Swat? 928 Hous was water Supplied to the city of thanjarwing 829 which are the three broad categories of naturation ugetation Q30 steppe grassland is found in Q31 what lisene was the twanoity as ang (TMG) fightling for I why did the uillagues set up this auganization 932 what are the main patures of clinate of A the sahara descrit? Q33 what are the important architectural frautures of the temple of Bangal? Q34 where is the one-thoun uninoceros found? Q35 who was kabir . \$36 why are things cheap in the weekly market? My Note Book

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Date: P. No: _do(adurtics 937 what hunalaya tribi \$38 Nei t was the settlelment? was the administration of the above state q 39 Q40 ho 9 Organised Steved Settlement? Compact 44 943 In which signal gernal attacked aborns? 943 In which climatic Condition, citarus fraits eve Calturated Caltinated. stepp grassland is Jours Quy callectively report all mlans of communication °J 45 aul to as <u>946</u>. stanging a product u or sing historical book written mans particular home Qui is the phony.

8th Class

English white Break H.H.W. A Story weritug. O Bad Company D'Two friende & a bear 3 Unity is strength B. (1) Practice makes a mon perfect Collage making a) Indian feetivals b, Mahatma Gaudhi c). B. R. Ambedkae d, My favourite game Write any two stories & write the moral too. D. Read chapters & write exercises mentioned for P.T. II (both the book o.) books.)

E. Write Book review of a book. Issued from dibrary.

PAGE NO .: शीतकालीन अनमाश हा प्रकाल अवकाश हेतु ग्रहनाय नेहाा- आठनी (दितीय पाली) निवाय- हिन्दी के पाठ-॥ से पाठ -17 तक के प्रश्नान र भाठ-॥ से पाठ -17 तक के प्रश्नान र शाद कर शाद कर शान याद कर राग सह व आनम यार का रूपातया पढ व उनके प्रमुख विंदु (प्रश्नान र याद कर) मा अत्यक के पाय - पाय उदाहरा लिखे 1 उपसम २- प्रत्यप ३- समास - दिगु व द्वद्व ५- अलकार - पुनर्समेन (4) अनुन्द्रहेत - लर्यन 1: र- निवन्द्र- निसमस्य पन 2: नद्रीय निसालय स्थापना दिनस्य ड) दो अपिन्यादिक पत्र तथा <u>२</u>. (हो उपत्रीपन्यादिक पत्र लिटत - मी दो समाद लेखन मीनिय . æ. I. 3.)

श्तितहालीन यवकाश गृहकाय मार्य मार्य महा - अहरमा संस्कृतम रंग्स्ट्रन प्रतिज्ञा, प्रार्थना एवं गीत लिखर याद की जिए सन्ध, कारक, उपरार्ग, प्रत्थय इत्यादि उपविषयों का समझकर याद की जिए सावित्री बाई फुले का जीवन परिचय हिन्दी में लिखिए सावित्री बाई फुले, नी तिनवनीतम, सातमार्गन्य था हो की समझकर प्रश्नोत्तर याद की जिए दिन्दी की निर्मे महत्त्व, उपयोग एवं हानि लिखिए (हिन्दी में) बारहाहारी लिखिए के से ज्ञ तक कि का गढिन 1 2 3 ú 5 6 का - - । DS पेज युलख लिखिए।

KENDRIYA VIDYALAYA NO.1 (IInd shift) INDORE Holyday Home work December 2019 CLASS - VIII



Sociali Sharma

THIRD ROUND OF TEST ITEMS SCIENTIFIC LITERACY

Test item 1: Bee Colony Collapse Disorder

Unit Overview

This released unit deals with the phenomenon known as bee colony collapse disorder. The stimulus materials include a short text introducing the phenomenon and a graph showing results of a study investigating the relationship between the insecticide imidacloprid and bee colony collapse disorder.

Bee Colony Collapse Disorder Item #1

PISA 2015

Bee Colony Collapse Disorder Question 1/5

Refer to "Bee Colony Collapse Disorder" on the right. Type your answer to the question.

Understanding colony collapse disorder is important for people who keep and study bees, but colony collapse disorder also has an effect beyond the bees. People who study birds have identified an impact. The sunflower is a food source for both bees and certain birds. Bees feed on the nectar of the sunflower, while the birds feed on the seeds.

Given this relationship, why might the disappearance of bees result in a decline in the bird population?

BEE COLONY COLLAPSE DISORDER

An alarming "henomenon is threatening bee colonies around the world. This phenomenon is called colony collapse disorder. Colony collapse occurs when bees abandon the beehive. Separated from the hive, the bees die, so colony collapse disorder has caused the death of tens of billions of bees. Researchers believe that there are a number of causes for colony collapse.





2.

Students are asked to select from among three options in each drop-down menu. Those options include:

- 1. collapse of bee colonies
- 2. concentration of imidacloprid in food
- 3. bee immunity to imidacloprid



3
Bee Colony Collapse Disorder Item #4

PISA 2015

Bee Colony Collapse Disorder Question 4 (5

Refer to "Exposure to Imidacioprid" on the right. Type your answer to the question.

Look at the result in week 20 for the hives that the researchers did not expose to imidacloprid (0 µg/kg). What does it indicate about causes of collapse among the studied colonies?

BEE COLONY COLLAPSE DISORDER Exposure to imidacloprid

Scientists believe that there are multiple causes for colony collapse disorder. One possible cause is the insecticide imidacloprid, which may cause bees to lose their sense of orientation when outside the hive.

Researchers tested whether exposure to imidacloprid leads to colony collapse. In a number of hives, they added the insecticide to the bees rood for three weeks. Different hives were exposed to different concentrations of the insecticide, measured in micrograms of insecticide per kilogram of food (µg/kg). Some hives were not exposed to any insecticide.

None of the colonies collapsed immediately after exposure to the insecticide. However, by week 14, some of the hives had been abandoned. The following graph records the observed results:



Bee Colony Collapse Disorder Item #5



5

Click on a choice to answer the question

Scientists have proposed two additional causes for colony collapse disorder.

• A virus that infects and kills the bees.

· A parasitic fy that lays its eggs in the abdomen of the bees.

Which of the for using findings supports the claim that bees die because of a virus?

Eggs of another organism were found in hives.

Insecticides were found inside the bees' cells.

Non-bee DNA was found inside the bees' cells.

Dead bees were found in hives.

Test Item 2: Fossil Fuels

Unit Overview

This released unit explores the relationship between the burning of fossil fuels and CO₂ levels in the atmosphere. The stimulus material includes a diagram illustrating how carbon cycles in the environment and a short text describing strategies for reducing the amount of CO₂ released into the atmosphere, a table comparing the characteristics of ethanol and petroleum when used as fuel, and a graph illustrating the results of a mathematical model that calculates carbon capture and storage at three different ocean depths.

Fossil Fuels Item #1







Test item 3: Volcanic Eruptions

Unit Overview

This released unit focuses on the distribution pattern of volcanoes and the impact of volcanic eruptions on climate and the atmosphere. Stimulus materials include a map showing the location of volcanoes and earthquakes around the globe and graphs illustrating the impact that volcanic eruptions have on the amount of solar radiation that reaches Earth's surface and on carbon dioxide concentrations in the atmosphere.

Volcanic Eruptions Item #1



Volcanic Eruptions Item #2



Volcanic Eruptions Item #3



Year

The table below shows the relative contribution of different sources to the carbon dioxide in the atmosphere.

Source	Contribution to CO ₂ in the Atmosphere
Volcanic emissions	< 1%
Human-caused emissions	20%
Plant respiration	40%
Microbial respiration and decomposition	40%

Test Item 4: Groundwater Extraction and Earthquakes

Unit Overview

This unit focuses on natural and human processes that may lead to earthquakes. The stimulus materials include a text and graphic illustrating the relationship of faults to earthquakes, a map showing levels of stress in one region of Earth, and a short text about an earthquake believed to have been caused by groundwater extraction.

Groundwater Extraction and Earthquakes Item #1



Groundwater Extraction and Earthquakes Item #2



Groundwater Extraction and Earthquakes Item #3

Groundwater Extraction and Earthquakes Question 374

PISA 2015

Refer to "The 2011 Earthquake In Lorca" on the right. Click on a choice to answer the question.

- Which observation supports the geologists' hypothesis?
- The earthquake was felt many kilometres away from Lorca.
- Movement along the fault was greatest in areas where the pumping created the greatest stress.
- Lorca has had earthquakes that were of greater magnitude than the May 2011 earthquake.
- The earthquake was followed by a number of smaller earthquakes fell in the region around Lorca;

GROUNDWATER EXTRACTION AND EARTHQUAKES

The 2011 Earthquake In Lorca

Lorca, Spain, is located in a region that experiences earthquakes relatively often. One earthquake occurred in Lorca in May 2011. Geologists believe that unlike previous earthquakes in the region, this earthquake may have been caused in part by human activity, specifically by the pumping of groundwater. According to the geologists' hypothesis, extracting water from underground contributed to stress on a nearby fault, which triggered a shift that resulted in the earthquake. Groundwater Extraction and Earthquakes Item #4

Groundwater Extraction and Earthquakes Question 474

PISA 2015

Refer to "The 2011 Earthquake In Lorca" on the right. Click on one or more boxes to answer the question.

A student who lives in a town in a region far from Lorca learns about the geologists' hypothesis about the 2011 earthquake in Lorca. The student knows that groundwater extraction in the region where he lives has led to a decline in the groundwater level. He is concerned about the possibility of earthquakes in his town. Which of the following questions should the studer consider in evaluating the risk that groundwater extraction will trigger an earthquake in his town?

✓ Remember to select one or more boxes.

- Does the crust in the region contain faults?
- Is the crust in the region subject to stress from natural causes?
- Is water pumped from the ground in the region polluted?
- What are the average daily temperatures in the region?

GROUNDWATER EXTRACTION AND EARTHQUAKES The 2011 Earthquake In Lorca

Lorca, Spain, is located in a region that experiences earthquakes relatively often. One earthquake occurred in Lorca in May 2011. Geologists believe that unlike previous earthquakes in the region, this earthquake may have been caused in part by human activity, specifically by the pumping of groundwater. According to the geologists' hypothesis, extracting water from underground contributed to stress on a nearby fault, which triggered a shift that resulted in the earthquake.

Test Item 5: Blue Power Plant

Unit Overview

This released unit focuses on a power plant that uses the differences in the salt concentration between salt water and fresh water to generate electricity. The stimulus includes text describing this process and an animation showing the movement of water through the plant and the movement of water molecules across a semi permeable membrane.



This animation share a freshwater river and water from the ocean meet. The power plant uses the differences in the salt concentrations in the two bodies of water to produce electricity. In the power plant, fresh water from the river is pumped through a pipe into one container. Salt water from the ocean is pumped into another container. The two containers are separated by a membrane that allows only water molecules to move through it.

Water molecules naturally move through the membrane from the container of low salt concentration to the container of high salt concentration. This increases the volume and pressure of the water in the container of salt water.

Click on the magnifying glass \bigoplus to observe this movement of water molecules.

The high pressure water in the salt water container then flows through a pipe, moving a turbine to generate electricity. OCEAN 4 Turbane Turbane 4 Turbane 4



and an an an and the second of the

Blue Power Plant Item #1



Blue Power Plant Item #2

5.4



Students are to determine the effect the movement of water across the membrane on the salt concentration of the fresh water and the salt water.

Both dropdown boxes have options increases & decreases. Student has to choose which correct option from each dropdown box.

Blue Power Plant Item #3

1



Each drop-down menu in this item lists four types of energy: gravitational, potential, kinetic and

electrical.

Blue Power Plant Item #4



Holiday H.W. For winter Break. 2019-20 Class - VIII A Social Study Write the Actail of Prills Introduced by Loksabha / Rajya Sabha During 2018-19 Triple talage, Article 370, CAB, Ste.

TIL B S.St Shift TI Leagn and write the answers of the questions gein in exercise of these chapters. > chapter of mequers, Iron smelters and factory History owner. chapter -8 - Civilising the "alatine" Educating the Mation Chapter - q women Caste and Reform civics - chapter - 5,6,78 Geo - Chapter > 5 (Industries) Accate all the Idis on the outline of Sadia with this capitals.

4th Class

English writer Break H. H.W Develop the following stories and resile the morals too. a) Gulliver & The lilliputions b) Story from Mahabharta that impressed you most. c) Rohan was a hard working boy. He wanted to become a doctor. But his family's financial condition was not so good ... d) Pied piper & the children 2) Helen Keller. collage making: 9) Santosh Jadar b, Maria Sharapov G Albert Einstein Study for chapters for P.T.3.

केसा तर्बी हितीय पाली teat श्री शीतकालीन अवकाश हेतु ग्रहकारी व पार्व्यक्रम क्षितिजः पाठ हरी न तक के प्रश्नीतर याद करें ! कात्य खंड- 14 से 17 तक प्रसीसर शाद करें। कृतिका - रीढ़ की हड्डी, आही वाली के प्रश्तेतर पॉन्च-पॉन्च उदाहरूग तिमें-उपसर्श, प्रत्यय, अतंकार (अनुपारन, यमक, रतेष) रमासारम : स्टाक्षी रममारम के उदाहरूठा लिखें ! राव्यम् क्रिस्मस्य सकार संक्रांति होली हेतु शीतकालीत भूमार्ग विद्यालय की पिकातिक। विस्थापत की समस्या पर अतुरहोद लिखे। कोई तीत भंवाद लिखें।

KENDRIYA VIDYALAYA NO.1 (IInd shift) INDORE Holyday Home work December 2011 CLASS - IX

MATHEMATICS

1 If E, F, G and H are respectively the mid-points of the sides of a parallelogram ABCD, show that ar(EFGH) = ar(ABCD)

2 In the figure, ABC and ABD are two triangles on the same base AB. If the line segment CD is bisected by AB at O, show that ar(ABC) = ar(ABD)

3 In given figure ABCD is a parallelogram with AB CD. If area of parallelogram is 72 cm2 then find area of (AABE)

4 D, E, F are respectively mid points of side BC, CA, and AB of ΔABC respectively then show that ar(ΔDEF) =

5 Prove that "Parallelograms lies on same base and same parallel are equal in area" 6 In the figure A,B,C and D are four points on a circle. AC and BD intersect at a point E such that Find ∠BAC

7 In the given figure, LABC =75°. Find ∠ADC



8 If diagonals of a cyclic quadrilateral are diameters of the circle through the vertices of the quadrilateral, prove that it is a rectangle.

9 O is the centre of the circle. If chord AB = chord CD, then find x



11 If O is the centre of the circle, then angle $\angle ACB = 35$. Then find x

12 If a line intersects two concentric circle with the centre O at A, B, C and D, prove that AB = CD.

13 Prove that a cyclic parallelogram is a rectangle. 14 AB is a diameter and ∠ ABC = 300, then find

CAB

15 Find / BCD

16 Prove that "Angles subtend by an arc at the centre is double of angle subtended by same arc at any point of remaining part of circle"

17 Construct DABC in which DB=60°, DC=90° and AB+BC+AC=11cm.

18 Construct a triangle ABC in which BC = 7cm, $\angle B = 60^{\circ}$ and AB + AC = 13cm

19 Construct an angle of 75° and bisect it with the help of ruler and compass

20 Construct a $\triangle PQR$ in which QR = 7cm/Q = 600 and PQ + RP = 10 cm

21 Construct a $\triangle XYZ$ in which $\angle Y = 300$, Z = 600 and XY + YZ + ZX = 11 cm

- 22 A rhombus shaped field has green grass for 18 cows to graze. If each side of the rhombus is 30m and its longer diagonal is 48 m, how much area of grass field will each cow be getting?
- 23 Find the area of a triangle two sides of which are 18cm and 10cm and the perimeter is 42cm.

24 Find area of triangle ABC

25 Find the area of an equilateral triangle of side 'a' using Heron's formula

26 Convert 7000cm² into m²

27 The sides of a triangular plot are in the ratio of 3:5:7 and its perimeter is 300m. Find its area.

- 28 If length of side of an equilateral triangle is 4√3 cm then find its area
- 29 A field is in the shape of a trapezium whose parallel sides are 25m and 10m. and non parallel sides are 14 cm and 13 cm . Find area of the field

30 A metal pipe is 77cm long. The inner diameter of a cross section is 4cm, the outer diameter being 4.4cm. Find its i) Inner curved surface area ii) Outer curved surface area iii) Total surface area.()

31 A lead pencil consists of a cylinder of wood with a solid cylinder of graphite filled in the interior.

The diameter of the pencil is 7mm and the diameter of the graphite is 1mm If the length of the pencil is 14cm, find the volume of the wood and that of the graphite.(

32 A soft drink is available in two packs-(i)a tin can with a rectangular base of length 5cm and width 4cm, having a height of 15cm and (ii) a plastic cylinder with circular base of diameter 7cm and height 10cm. Which container has greater capacity and by how much? (11 - 32

33 Find total surface area of a cube of side 4cm

- 34 Find lateral surface area of a cuboid of size 8cm × 6cm × 5cm
- 35 The length, breadth and height of a room are 5m, 4m and 3m respectively. Find the cost of white washing the walls of the room and the ceiling at the rate of Rs2.50
- 36 A small indoor green house (herbarium) is made entirely of glass panes held together with tape. It is 30cm long, 25cm wide and 25cm high.i) What is the area of the glass?
- 37 Find volume of a right circular cylinder with radius 6 cm and height is 7 cm
- 38 If diameter of a metalic ball is 4.2cm, what is mass of the ball if density of the metal is 2,5g per cubic cm
- 39 A hemispherical bowl made of iron has inner radius is 14 cm. Find cost polishing of inner surface of bowl at the rate RS.10 per 100 cm²

40 If AABC with sides 12cm, 5cm and 13cm revolved about 12cm side. Find volume and CSA of cone which generated by revolution.



ar(AABC)

 $\angle BEC = 130^{\circ} and \angle ECD = 20^{\circ}$

Class ix

Winter vacation Homework (PHYSICS)

- 1. Define 1 joule of work.
- 2. Derive an expression for Kinetic energy formula.
- 3. Calculate the work done by the brakes of a car of mass 100kg when its speed is reduced from 20m/s to 10m/s?
- 4. State law of conservation of energy. Write at least two examples.
- 5. Write the differences between compression and rarefaction.
- 6. Explain the various characteristics of sound.
- 7. Sound waves travel with a speed of about 330m/s. What is the wavelength of sound whose frequency is 550 Hertz?

Class IX · (Science) D Revision for Atoms and Molecule, Atomic Structur for PT-3 i) Exercise of Atomic Structure and intext Eucotion in Home work Lopy. iii) Revision of Chapter + 1 to 4, of science.

J. Pulider Pft aren.

WINTER BREAK HOME WORK FOR CLASS 9TH 2019 Subject-Science (Biology)

01-Find out some HYV of following crops-Wheat, Maize, Pigeon Pea and chick pea Ground nut Soybean.

02-Surf on internet and note HYV of Mango, Guava Coconut. Apple ,Pomegranet, Zuzuba.

03-Enlist certain GM Crops grown in India.

04-Complete the class work up to Improvement of food resources.(In text and exercise Questions)

gth A-B So.sa classmate 1) What is Shifting cultivation 2) Where is Tim carbett National Park. 3) what is the term of Rajaya Sabha 4) What is AAY? 5) What is the difference between deciduous forert and evergeneen forest? 6) what is scientific forestery? 7) What dose national vegetation mean? 8) Now is the Prime Minister appointed ? 9) Differenctiate between searonal hunger and chionic hungers? 10) Name different types of vegetation found en India 2 Describe them all. 11) What were the main causes of defouestation in India during the British period, 12) Mention the reasons for poverty in India. 13) Mention the reasons for activities of food corporation of India ? 14) what was 'The Enabling Act'? When was it passed? 15) What is the croke of health in human capital formation ? 10) Why do we need constitution ? Explain with taking examples from constitution & south Africa during design of their constitution. Who is the human Resource Development Minister of India ? 18 What are three types of ratural regetation 19 what is subsidy. 20) what is the full form of Fein

classmate Date 2) Explain scientific forestry? 22) Define the nice - Term Election 23) what is the importante of election in 24) Exa Explain the reasons of deforestration in colonial India ? 25) Explain the features of Tempical Decidouous forests Distinguish between political executive and parmanent executive. What is hunger ? Explain its types ? 28) Define elections. 29) which national pack is the natural habitat of India lion? 30) Name the two houses of the Parliament of India. 31) which sceme scheme implementation per vides 100 days ouscired employement in vier arrens? accepts ? 32) Name the social group which are more perove to food insecurity. 33) which two state are considered poorest state of India 9. 34) Explain any two features of Forest of 1878. 35) How is the Lok Sabha more powerful than the Rajya Sabha? 36 why do different countries use different poverty line ? 37) What is meant by Buffer stock 2 why is it created by the government?

classmate 38 Discuss any two schemes launched by the government of India to provide food security to the poor people of India 30 How did the would were affect forest of Java and India ? 40) Mention the steps taken by the Indian government to protect the endangered species. 41) Duicribe the challenge to Indian Election system. If a hok Sabha constituency is vocated because of the death of a member of parliament, which election will be held to fill the vacancy? 43) What are the demerit of electoral competition Why did the government decide to ban 44) shifting cultivation? why do need election? 45 When did commercial forestery started 461 47) What is colonicilism ? write the five reasons of deforestation. 48) 49) Explain the shifting cultivation. 50) White the characteristics of Indian election system What is poverty line of 51) What is sural poverity? What is NAREGA? 537 54) Give any five reasons of poverty? 55) How is the Peime Minister appointed 50 What purpose dosc mid - day meal scheme launched by the government in the school?

classmate Date 57) Why buffer stock created by the government. 58) what is shifting cultivation? Why did the colonial government decided to bas shifting cultivation? 59 Distinguish between the Lok Lok - Sabha and the Rajya Sabha. How is the Lok Sabha more powerful than the Rajye Sabha? What is poverty? 60 61) Name different types of vegetation found in India. The member of legislating assembly is called by which name? 63) In Who conduct free and fair election. How do political leaders try to win the hear hearts of voters? 65) What is Fair price Shops? 66) What is Electorial showers? seats are reserved in to? 67) How many Lok sabha for scheduled castes? 68) Why do we need Paliament of Paviliament? 69) What are the importantes ce of public Disbubition system Explain the electorial process in India 70 How a with the same many and 7) How is the President of India appointed? What are his powers? 72) who are MPs and MLAS ? What are general election and by elections? 73) What are the major reason for the less effectiveness of poverty alleriation 74) perograms? What are the powers of the judiciary of 75 India

कक्षा दसवीं A, B विषय हिंदी

प्रीबोर्ड प्रथम का प्रश्नपत्र पूर्णतया हल करके लेकर आयें।

X A, B. Sst. Shift II some any two sample papers of subject materials book of sit and write down in the note book solve and write the paper of Bre board I in the note sook Fill and paste map of India. Topics for map - Themal, Nuclear power station, and mines, menerals, air parts, parts, cotton tixtili nills, IT parks,

Class X

Winter vacation Homework

(PHYSICS)

- 1. The focal length of eye lens increases when eye muscles are
 - a) Contract and lens becomes thicker
 - b) Contract and lens becomes thinner
 - c) Relaxed and lens becomes thinner
 - d) Relaxed and lens becomes thinner
- 2. Magnetic field inside a long solenoid carrying current is
 - a) Zero
 - b) Different at all points
 - c) Partly uniform and partly non-uniform
 - d) Same at all points
- 3. At the time of short circuit , the current in the circuit
 - a) Varies continuously
 - b) Increases heavily
 - c) Does not change
 - d) Reduced considerably
- 4. Define the term Coulomb.
- 5. State the relationship between the electric current, the charge moving through a conductor and the time of flow.
- 6. Calculate the charge passing through an electric bulb in 20min if the value of current is 200Ma.
- 7. a) What is an electromagnet?b) List any of its two uses.

Class11

Winter vacation homework (PHYSICS)

1. Define the terms: stress and strain and also state their S.I. units. Draw the stress V/s strain graph for a metallic wire, when stretched up to the breaking point.

2. A steel wire of radius 10 mm and length 1 m. A 100 KN force stretches it along its length. Calculate (a) stress (b) elongation (c) strain ($y = 2 \times 1011 \text{ N/m2}$).

3. What is stoke's law? Derive the relation by the method of dimensions.

4. State and prove Pascal's law.

5. State & prove Bernoulli's theorem for a non-viscous liquid

6.Define terminal velocity. Find an expression for it.

7. Explain surface tension and surface energy. Prove that surface energy is numerically equal to surface tension.

8. Derive an expression for the excess of pressure inside a liquid drop.

9. Derive an expression for the rise of liquid in a capillary tube of uniform diameter and sufficient length.

10. Derive a relation between volume expansion and linear expansion.

WINTER BREAK HOME WORK FOR CLASS 11TH 2019 (subject- Biology)

01-Prepare a scrap file using Quarter of chart paper-Tables given in mineral nutrition, Diagrams mentioned in the chapter Bio-molecules.

02-Prepare a chart of action, absorption and the concerned pigment graph, Z scheme, cyclic and noncycliic photo phosphorylation. Calvin cycle, biosynthetic phase,

05-Prepare a chart in EMP cycle, kreb's cycle, ETS.RQ etc.

06-Prepare a comperative chart of physiological action of different PGR in agronomic and horticulture in tabulated form.

HOLIDAY HOMEWORK FOR CLASS XI Subject - Mathematics

Q.1. The slope of a line is double of the slope of another line. If tangent of the angle between them is 1/3, find the slope of the lines.

Q.2. A line perpendicular to the line segment joining the points (1,0) and (2,3) divides it in the ratio 1:n. Find the equation of the line.

Q.3. Find equation of the line passing through the point (2,2) and cutting off intercepts on the axes whose sum is 9.

Q.4. Find the distance of the point (-1,1) from the line 12(x + 6) = 5(y - 2).

Q.5. If p is the length of perpendicular from origin to the line $\frac{x}{a} + \frac{y}{b} = 1$, then show that $\frac{1}{P^2} = \frac{1}{a^2} + \frac{1}{b^2}$.

Q.6. Find the coordinates of the foot of the perpendicular from the point (-1,3) to the line 3x - 4y - 16=0.

Q.7. Assuming that straight lines work as the plane mirror for a point, find the image of the point (1, 2) in the line x - 3y + 4 = 0.

Q.8. Find the value of p so that the three lines 3x + y - 2 = 0, px + 2y - 3 = 0 and 2x - y - 3 = 0 may intersect at one point.

Q.9. In what ratio, the line joining (-1, 1) and (5, 7) is divided by the line x + y = 4.

Q.10. Find equation of the line which is equidistant from parallel lines 9x + 6y - 7 = 0 and 3x + 2y + 6 = 0

Q.11 Find the centre and radius of the circle $2x^2 + 2y^2 - 2x + 8y - 46 = 0$.

Q.12 Find the length of the latus rectum of parabola $x^2 = 8y$.

Q.13Find the equation of the circle passing through the points (2, -2) and (3, 4)

and whose centre is on the line x + y = 2.

Q.14Find the coordinates of the foci, the vertices, the eccentricity and the length of latus rectum of the hyperbola $16x^2 - 9y^2 = 144$

Q.15 Prove that P(3, 2, 4), Q(5, 4, -6) and R(9, 8, -10) are collinear.

Q.16A line perpendicular to the line segment joining the points (1, 0) and (2, 3) divides it in the ratio 1: n. Find the equation of the line.

Q.17 If p is the length of perpendicular from origin to the line $\frac{x}{a} + \frac{y}{b} = 1$, then show that

$$\frac{1}{P^2} = \frac{1}{a^2} + \frac{1}{b^2}.$$

Q.18 Find the equation of the ellipse satisfying the given condition

Foci $(0, \pm 5)$, Vertices $(0, \pm 13)$.

Q.19 An equilateral triangle is inscribed in the parabola $y^2 = 12x$, where one vertex is at the vertex of the parabola. Find the length of the side of the triangle.

Q.20A deflected beam is the shape of a parabola $x^2 = 4ay$. The beam is supported t its ends which are 12m apart. The deflection in the centre is 9cm only. Find the point on the beam where deflection is 5cm. Parabolic and elliptic beam and archs designed by architects for strength and beauty. Is it possible to design hyperbolic beams?
Class XI Computer Science

Programming in Python:

- Find the largest and smallest numbers in a list.
- To find average and grade for given marks,
- To find amount for given cost-qty-discount,
- To calculate cost perimeter-wise/ area-wise,
- To calculate interest (Simple and Compound)
- To calculate profit-loss for given Cost and Sell Price
- To calculate EMI for Amount, Period and Interest,
- To calculate tax (examples from GST/Income Tax)
- Find whether a string is a palindrome or not.
- Given two integers x and n, compute x^n .
- Compute the greatest common divisor and the least common multiple of two integers.
- Test if a number is equal to the sum of the cubes of its digits. Find the smallest and largest such numbers.

Data Management:

Write short note on following terms:-

Relational Database model, Relation, Domain, Degree, Cardinality, Views, Primary Key, Candidate Key, Alternate Key, Foreign Key, Referential Integrity. Unique Constraints, Default Constraints, Check Constraints

Differentiate between DDL and DML commands.

SQL Commands

- To create a database
- To create student table with the student id, class, section, gender, name, dob, and marks as attributes where the student id is the primary key.
- To insert the details of at least 10 student in the above table.
- To delete the details of a particular student in the above table.
- To increase marks by 5% for those students, who have Rno more than 20
- To display the entire content of table on screen
- To display Rno, Name and Marks of those students, who are scoring marks more than 50.
- To find the average of marks from the student table
- To find the number of students, who are from section 'A'
- To add a new column email of appropriate data type
- To find the minimum and maximum marks obtained by students
- To modify email for each student.
- To display the information all the students, whose name starts with 'AN' (Examples: ANAND, ANGAD,..)
- To display Rno, Name, DOB of those students, who are born between '2005- 01-01' and '2005-12-31'
- To display Rno, Name, DOB, Marks, Email of those male students in ascending order of their names.
- To display Rno, Gender, Name, DOB, Marks, Email in descending order of their marks.

Page No: Winter - Break Homework English 1 Sourable / Shobita shikhar social activist of the district, plan to organise cleanliness carpaign design a poster to rake the people aware about advantages of being clean and keeping surrounding dean R. Make a project of on the topic Deiling Planet, harriful effects of and remedies taken for it. 3. You are going to celebrate chruistmas day on this occassion you have to plan to organise to grand get together, draft an invitation card to be sent all your relatives and friends.

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ICHHE शीतकालीन अवकारा गृहकार्य कर्शा- ×1 व ×11 8 Holiday Home work for XI-XII विषम - हिन्ही and -परियोजना (Project) कार्य (* किसी एक विषम पर) 0 अगरोह आग-एक (कस्मा-×1) व आरोह-आग दी (कस्मा-×11) व वितान '' '' वितान 11 " के किसी भी रूक लेखक अधवा कवि के जीवन परिवर्भ, साहित्यिक परिचम रवं अमितत्वव मोगदान पर परिमोजना कार्च तेमार करें। जनसंचार के विभिन्न माध्यमों की शुक्छात, विकास तथा 2 संचार क्रांति में जूमिका पर परियोजना तैयार करें। भनितकाल की धारारें - शाखारें तथा प्रमुख कवियों ब 3 साहित्मिक भोगदान पर परियोजना कैयार करें। जनसँनार व पत्रकारिता की विविधा विधाओं आलेख, (9) फीचर लेख, प्रतिवेदन, विज्ञापन लेखन, विज्ञापन, कार्यवन, कार्यसून्नी, संपादकीय, दृश्यलेख, समान्यार लेखन आहि की सैद्धांतिक ल्याख्या व नमूने परियोजना कार्य के रूप में र्रमार करें। कविता, कहानी व नारक के लेखन तन्त्व व उनके आंतर E पर परिमोजना कार्य तैयार दें। (उदाहरण स्तहत) अपने किसी भी त्रिम साहित्मिक विषम (हिन्दी से संबद्ध) पर परिमोजना काम तैयार करें। 6 10

2 -0 Class - XT 'B' DATE: ____ N Dinter - Break Homework 16 Accountancy 055 123 Project file 2. Write 31 transaction and convert them into Townal, Ledger, Trial balance, final Account and any six adjustment. 3. Prepriation of P.T-2 3 4. Objective type questions (any 20) -> Bills of Exchange -> Rectification of Ennon + Financial statement of Dole proprietorship -> Adjustments in Prepanation of Financial Statement -5. 3 Marks question (8) E 6. 4 marks question (8) -7. 6 Marks question (8) -8. 8 Marks question (4) --10 1 -9 3

0 Class - XI B' DATE: ____ Winter - Break Homework 1 Business Studies [054] -1. Project file 2. Prepanation of P.T-2 3. Objective type question (any 20) -> Asounces of Business Finance -> Asounces of Business Finance -> Asounces of Business Enterprises -> Asounces and Enterprises 0 -0 4. 3 Marks question (8) 5. 4 Marks question (8) -6. 5 Marks question (6) 0 7. 6 Marky question (4) a Rear Star -0 112/19

For class XB Economies Economic Project work for Annual Exam - (20 Maroks). \sim .

Class XI

INFORMATICS PRACTICES

Programming in Python:

- To find average and grade for given marks,
- To find amount for given cost-qty-discount,
- To calculate cost perimeter-wise/ area-wise,
- To calculate interest (Simple and Compound)
- To calculate profit-loss for given Cost and Sell Price
- To calculate EMI for Amount, Period and Interest,
- To calculate tax (examples from GST/Income Tax)
- To find the largest and smallest numbers in a list.
- To find the third largest number in a list.
- To find the sum of squares of the first 100 natural numbers.
- To find whether a string is a palindrome or not.
- To compute x^{*n*}, for given two integers x and n,
- To compute the greatest common divisor and the least common multiple of two integers.
- To test if a number is equal to the sum of the cubes of its digits. Find the smallest and largest such numbers in the range of 100 to 1000.

Data Handling:

The following are some representative lab assignments.

- Import numpy as `np` and print the version number.
- To create an array of 1D containing numeric values 0 to 9
- To create a numPy array with all values as True
- To extract all odd numbers from numPy array
- To extract all even numbers from numPy array
- To copy the content of an array A to another array B, replacing all odd numbers of array A with -1 without altering the original array A
- To replace all odd numbers in numPyarr with -1
- To copy content of a 1D array into a 2D array with 2 rows
- To perform basic arithmetic operations on 1D and 2D array

Data Management:

Write short note on following terms:-

Relational Database model, Relation, Domain, Degree, Cardinality, Views, Primary Key, Candidate Key, Alternate Key, Foreign Key, Referential Integrity. Unique Constraints, Default Constraints, Check Constraints

Differentiate between DDL and DML commands. SQL Commands

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- To display Rno, Gender, Name, DOB, Marks, Email in descending order of their marks.

CLASS XII

WINTER VACATION HOMEWORK (PHYSICS)

- 1. Write Einstein's photoelectric equation. State clearly the three salient features observed in photoelectric effect which can explain on the basis of this equation. The maximum kinetic energy of the photoelectrons gets doubled when the wavelength of light incident on the surface changes from λ_1 to λ_2 . Derive the expression for the threshold wavelength lamda0 and work function for the metal surface.
- 2. Write two characteristics features observed in photoelectric effect which support the photon picture of electromagnetic radiation. Draw graph between the frequency of incident radiation (V) and the maximum k.E. of the electron emitted from the surface of a sensitive material. State clearly how this graph can be used to determine (i) planck's constant and (ii) work function of the material.
 - 3. An α particles and a proton are accelerated from rest by the same potential. Find the ratio of their de-broglie wavelengths.
 - 4. Plot a graph showing variation of de Broglie wavelength () associated with a charged particle of mass m, versus 1/17, where V is the potential difference through which the particle is accelerated. How does this graph gives us the information regarding the, magnitude of the charge of the particle?
 - 5. Light of the wavelength 2000A⁰ falls on a metal surface of work function 4.2Ev. What is the K.E of the fastest electrons emitted from the surface?
 - (i) What will be the change in the energy of the emitted electrons if the intensity of light with same wavelength is doubled?
 - (ii) If the same light falls on another surface of work function 6.5eV, what will be the energy of emitted electrons?
- 6. Draw graphs showing the variation of photoelectric current with anode potential of a photocell for (i) same frequency but different intensities $I_1 > I_2 > I_3$ of incident radiation. (ii) Same intensity but different frequency $v_1 > v_2 > v_3$ of incident radiation. Explain why the saturation current is independent of the anode potential.

Class. Xí H. W. Winter break

Q-1 All Name reactions. of organic chemistry Q-2. 20 pain. (distinguish between pains of Comported, by suitable test) Q.3. Monomen, polymens of imp- Oses of All the Polymens. Q. y. Exercise questions of Biomoleculus & chen. in everyday life Q.S. Numerical problems (10 from each thapter.) in Solution, Electrochemisty and kindles. of old CBSE paper supplied to you. Q.6. Éxercire questions from Surface chanist E Extraction of elements.

a-V.B.Liden.

HOLIDAY HOMEWORK FOR CLASS XII Subject - Mathematics

- (1) SAMPLE PAPER- 10, 11, 12,13 AND 14.
- (2) SHEET OF 170 IMPORTANT QUESTIONS.
 (3) YEAR WISE & CHAPTER WISE QUESTIONS OF LAST 10 YEAR.

Subject: IP/CS

2019

class - XITth Solve Re-Board Question Papers of different (\mathbf{I}) Segions shared in class. complete lagect file and other seconds. 2

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For class XIIB. Any three somple papers saluedies with Extra. I Progrand paperalso 19/12/19 (H.MI. Kaushilk)