

(Under the aegis of Delhi Public School Society, East of Kailash, New Delhi)

(A senior secondary school)

Affiliated to C.B.S.E New DELHI



WORKSHEET

Class- X

Name-

Roll No .-

Date- /5/2022

Subject- Biology

chapter - 2

1. What is the functional unit of nervous system?

- 2. What is synapse?
- 3. What is the correct sequence of the components of a reflex arc?
- 4. What is an axon?
- 5. How many cranial nerves and spinal nerves are present in human being?
- Name the part of neuron (a) where information is acquired. (b) through which information travels as an electric impulse.
- Name two tissues that provide control and coordination in multicellular animals.
- Name one gustatory receptor and one olfactory receptor present in human beings.
- 9. Why are electrochemical signals not an efficient means of communication in plants?
- 10. What is reflex action?
- 11- Write the correct path way of reflex action.
- 12- What are voluntary and involuntary actions. Give two examples of each.
- 13- How do animals muscles move?
- 14- How is reflex arc formed?
- Define nerve impulse.
- 16- Which structure in a neuron helps to conduct a nerve impulse (a) towards the. cell body (b) away from the cell body.
- 17- Write three examples of reflex actions.
- 18- Which signals will get disrupted in case of a spinal cord injury?

Geography Class-X

Answer in long :--

- 1. List in the technological and institutional reforms in agriculture.
- 2. What is the contribution of Agriculture to the National Economy?
- 3. Write all geographical conditions required for the growth of tea, coffee, wheat and sugarcane.
- 4. Differentiate for Zaid/Kharif and Ravi crops with examples/area.
- 5. Write a note on 'Slash and Buen Agriculture'.
- 6. Why is there enormous pressure on agricultural land in land intensive subsistence farming?
- 7. Explain rubber cultivation in India under the following heads:-
- (a) Importance. (b) Geo- conditions. (c) Producing.
- 8. Why is agriculture called the mainstem of Indian economy?
- 9. Define 'plantation agriculture'. Explain any four conditions of plantation agriculture.
- 10. What is the importanc of pluses in our country? Whybare pulses grown as a rotation crops?
- 11. Workings on map:--
- (a) Any two Jowar producing states.
- (b) Any two maize producing states.
- (c) Any two bajra producing states.
- (d) Any two tea producing states.
- (e) Any two coffee producing states.
- (f) Any two rice producing states.
- (g) Any two wheat producing states.



Summer Assignment - 2022-23 Subject- Artificial Intelligence Class-X



Roll No.

Name

Date

SUMMER VACATION HOMEWORK

- 1. Write a program to input a string and display the count of vowels and consonants in the string.
- 2. Write a program to input a string and display the string in the reverse order.
- 3. Write a python code to take the input of a number n and then find and display its factorial (n!). For example, 5! = 5*4*3*2*1 i.e, 120.
- 4. Write a python code to input the lengths of 3 sides of triangle and display whether a triangle can be formed with input or not. If a triangle can be formed then display whether the triangle will be scalen,
- 5. write a program to input 2 numbers and display the LCM of numbers.
- 6. Write a program to input a number and display whether it is palindrome or not.
- 7. Write a program to input a number and display whether it is a prime number or not.
- 8. Write a program to input two number and swap both the numbers without using the third number.
- 9. Using Numpy Package:
 - Create a 4*2 array with Random integer.
 - Create 3*3 array with all zeros.
- 10. Using Matplotlib and the given data, plot a bar chart.
- 11. Using Matplotlib and the given data plot a line chart:
- 12. Using Matplotlib and the given data plot a pie chart: Data = [45, 23, 41, 78, 65]
- 13. Using Matplotlib and the given data plot a scatter chart: Height = [4.5, 5.2, 4.1, 3.5, 5]

Weight = [34, 41, 45, 56, 39]

- 14. Using Numpy package. Create an array of 5marks and display the average of all marks.
- 15. Create a list of distance travelled by a car in a week and calculate using statistics module: (i) Mean (ii) Median

(iii) Mode



(UNDER THE AEGIS OF DELHI PUBLIC SCHOOL SOCIETY EAST OF KAILASH NEW DELHI)

(A SENIOR SECONDARY SCHOOL)

AFFILIATED TO CBSE, AFFILIATION NO. 2133064 SCHOOL NO: 61225 HOLIDAY HOMEWORK SESSION - 2022- 23



Subject: MATHS

PREVIOUS YEAR QUESTIONS

- 1. Write the smallest number which is divisible by both 306 and 657. (22338) (CBSE 2019)
- 2. Prove that ($5 + 3\sqrt{2}$) is an irrational number. (CBSE 2018)
- Express 429 as the product of prime factors . (CBSE 2019)
- 4. If HCF (336, 54) = 6, find LCM (336, 54). (3024) (CBSE 2019)
- 5. What is the HCF of smallest composite number and the smallest prime number? (CBSE 2018)
- 6. Find the zeros of polynomial and verify the relation between zeros and coefficients 7y² – 11/3 y – 2/3 . (CBSE 2019)
- 7. Find a quadratic polynomial whose sum of zeros is -5 and their product is 6..(CBSE 2020)
- 8. For what value of k, -3 is a zero of the polynomial $x^2 + 11 \times k$? (CBSE 2010)
- 9. Solve the equations : $21 \times 47y = 110$, $47 \times 21y = 162$.
- 10. Find c, if the system of equations have infinite many solutions: cx + 3y + 3 - c = 0, 12x + cy - c = 0. (CBSE 2019)
- 11. Find the value of k for equations have no solution kx + 3y = k 3, 12x + ky = k.
- 12. Solve for x : $\frac{x+3}{x-2} \frac{1-x}{x} = 17/4$. (CBSE 2017) 13. Solve for x : 3 ($\frac{7x+1}{5x-3}$) 4 ($\frac{5x-3}{7x+1}$) = 11
- 14. Write the discriminant of the quadratic equation : $(x + 5)^2 = 2(5x 3)$
- 15. Find p for equation $(p + 1) x^2 6 (p + 1) x + 3 (p + 9) = 0$ has equal roots. Hence find the roots.
- 16. A bag contains cards with numbers 1 to 49. A card is drawn from the bag at random. Find the probability that the number on the drawn card is
 - a. An odd number
 - b. A multiple of 5
 - c. A perfect square
 - An even prime number .
- 17. In a throw of a pair of dice, find the probability of getting:
 - a. A doublet
 - b. A sum greater than 9.
- 18. In triangle ABC, right angled at A, if AB = 5, AC = 12 and BC = 13, find sin B, cosC, tan B.
- 19. If $\sin B = \frac{1}{2}$, show that $3 \cos B 4 \cos^3 B = 0$.
- 20. If 5 tan x = 4, show that $\frac{5 \sin x 3 \cos x}{5 \sin x + 2 \cos x} = 1/6$.
- 21. If $3 \cos x 4 \sin x = 2 \cos x + \sin x$, find $\tan x$.
- 22. If tan (a + b) = 1 , tan (a b) = $1/\sqrt{3}$, find a and b.
- 23. Find the value of x : $\tan x = \sin 45^{\circ} \cos 45^{\circ} + \sin 30^{\circ}$.
- 24. Evaluate: (cos 0° + sin 45° + sin 30°)(sin 90° cos 45° + cos 60°)
- 25. Evaluate: cos 60º cos 45º sin 60º sin 45º.



(Under the aegis of Delhi Public School Society, East of Kailash, New Delhi) (A senior secondary school) Affiliated to C.B.S.E New DELHI



WORKSHEET -1 CHEMISTRY

- 1. Arrange the following in the correct increasing order of acidic strength hydrochloric acid, water, acetic acid.
- Human body works at what PH range.
- 3. Two solutions A and B have Ph values of 5 and 8, which will be more basic and why?
- 4. Why does tooth decay start when the ph of mouth is lower than 5.5?
- Write any two natural indicators.
- 6. Write two differences between acids and bases based on their chemical properties.
- 7. Which one of these has a higher concentration of hydronium ion? 1 M HCl or 1 M CH3COOH.
- 8. A stain of curry on a white cloth becomes reddish brown when soap is scrubbed on it. (i) which indicator can be used, write it's type also. (ii) why did stain becomes reddish brown.? (iii) What happens when the cloth is washed with plenty of water?
- 9. Name the acids present in the following Tomato, apple, vinegar, tamarind, capsicum, curd, bee
- 10. What will be the action of the following on litmus paper? Dry HCl gas, moistened NH3gas, lemon juice, carbonated soft drinks, soap solution.
- 11. A student prepared solutions of an acid and base in two separate beakers. She forgot to label the solution and litmus paper is not available in the laboratory. Since both the solutions are colourless, how will she distinguish between the two?
- 12. X is an indicator added to a dilute solution of sodium hydroxide. The colour of the solution turns pink. When a substance Y is added the solution becomes colourless. Y also combines with sodium hydroxide to form salt that we use in food everyday life. (I) Identify X and Y. (ii) Give the reaction of Y with sodium hydroxide. (iii) Name the type of reaction. (iv) What is the PH of Y?
- 13. A solution turns blue litmus red, what is it's PH range?
- 14. Why do acids not show acidic behavior in the absence of water?

PHYSICS

- 1. State one function of the human eye. (AI 2020)
- 2. Define the term power of accommodation. Write the modification in the curvature of the eye lens which enables us to see the nearby objects clearly? (Delhi 2019)
- 3. Trace the sequence of the events which occur when a bright light is focused on your eyes. (Delhi 2019)
- 4. State the function of each of the following parts of the human eye a. Cornea b. Iris c. Pupil (Delhi 2013)
- 5. List two causes of hypermetropia. (Al 2020)
- 6. A person is suffering from both myopia and hypermetropia. a. What is this condition called? b. What kind of lenses can correct this defect? c. A person needs a lens power of +3 D for correcting his near vision and -3 D for correcting his distant vison. Calculate the focal length of the lenses required to correct these defects. (AI 2020)
- 7. A student cannot see a chart hanging on a wall placed at a distance of 3 m from him. Name the defect of vision he is suffering from. How can it be corrected? Draw ray diagrams for the defects of vision and also for its correction. (Delhi 2012)
- 8. An old man cannot see objects closer than 1 m from the eye clearly. Name the defect of vision he is suffering from. How can it be corrected? Draw a ray diagram for the defect of vision and also for its correction. (AI 2012) *



(UNDER THE AEGIS OF DELIII PUBLIC SCHOOL SOCIETY EAST OF KAILASH NEWDELIII)

(A SENIOR SECONDARY SCHOOL)

AFFILIATED TO CBSE, AFFILIATION NO. 2133064 SCHOOL NO: 61225



HOLIDAY ASSIGNMENT AND PROJECT WORK

HOLIDAY ASS	SIGNMENT AND	PROJECT W		
ENGLISH LITERATURE: Project Term 1				
1) Character/thematic analysis.				
2) Appreciation of literary qualities.		la a abias	- elecumetances	and explaining
2) Appreciation of literary qualities.3) Identifying with a character. Putting oneself in t	the place of the c	haracter in a giver	n circumstances	ario empression
one's actions.				
one's actions. 4) Imagine alternative outcomes or endings in a lit	terary piece and	the effect on all co	oncerned.	
4) imagine afternative outcomes of change and				
GENERAL INSTRUCTIONS:				
1) Attempt all 4 topics.				
2) All projects must be handwritten.	with proper spir	al binding.		
3) All projects must be nandwritten.3) All project work must be submitted in file page4) The cover page should show the school's name	Logo, Student's	Name, Class, Sect	ion and Subject.	The cover page
4) The cover page should show the school's name	, 2060, 31			
should be typed.				
5) The second page should be about acknowledge	ment	nage numbers.		
6) The third page should be about the content ne	adings with their	page numbers.		
7) Each topic should be written on a new page an	d arranged as			
8) Use nictures and captions wherever possible.				
9) Marks will be deducted for spelling and gramm	natical errors.			
10) Word limit is 1500.				
to the about hibliography (refer	ences/citation).			
- Wall to Freedom' and Write	the book review.	(in not more than	250 words)	
				:- 100 words
Topic 2. Read about Robert Frost's Life and Write Topis 3 Which of the personalities you seek after	Robert Frost or N	Velson Mandela? A	and why? Answei	r in 100 words
Topic 4. Write a poem or an article 'I wish I could	save the world."			
Topic 4. Write a poem of an artists				
Holiday Assignment: (must be done in CW note b	ook)			
Read 'The Proposal'				
Read all the stories from 'Foot Prints'				
Attempt these questions: 1. A part of the extract has been paraphrased.	Choose the option	n that includesthe	most appropriate	e solution to the
 A part of the extract has been paraphrased. blanks in the given paraphrase of the extrac 	t.			
			until the	speakergrew
The speaker's belief about freedom, since chi	ildhood proved fa	alse. It wasnot	until the	speaker grow
up to be a young	man whom	it i)	offreedom.	Then he began ii
on him that he was	ii) it.			
i) desired ii) dawned	iii) depriving			
i) desired	iii) desiring			*
i) dawned ii) deprived i) dawned iii) arrived	iii) desiring			
i) arrived ii) deprived	iii) dawned			
,,	SACT OF SACTOR SACTOR AND PARTY.	baut Mandala	as father and a	s a leader?
2. Based on your reading of the lesson, wh	nat can you infe	r about ivianuela	dofinecourage i	in this context?
 Based on your reading of the lesson, with the lesson, with the lesson in the lesson in		fow would you so neople and no		
	act woulth is it	s neople and no	t thepurest dia	

4. Mandela says that his country's greatest wealth is its people and not thepurest diamonds. Justify his

5. If you were in Mandela's position, would you have given preference to yourfamily or your country? Wh



Session- 2022-23
Practice Worksheet 1
Subject- Hindi language



Topic- अपठित बोध

Roll No	. Name	class	10th	Date
	अपठित गद्यांश			
1 नीचे दि	ए गए गद्यांश को पढ़कर प्रश्नों के उत्तर	दीजिए –		
पड़ जाते हैं, जीवन भर व तो जीवन सुदृढ़ और सुर्ख मन लगाकर अध्ययन कर और खाद मिल जाती है, व श्रम, अनुशासन, समय एव नागरिक के लिए जिन-जि	। जीवन की रीढ़ की हड्डी कहें, तो कोई ही संस्कार अमिट रहते हैं। इसीलिए यह ही बन जाता है। यदि इस काल में बालव र लेता है तो उसे ज्ञान मिलता है, उसका वह पुष्पित एवं पल्लवित होकर संसार वं नियमन के साँचे में ढल जाता है, वह तेन गुणों की आवश्यकता है, उन गुणों वे । सभी गुण आ जाने आवश्यक हैं, जिन	ही काल आधार ह कष्ट सहन क मानसिक विक को सौरभ देने र आदर्श विद्यार्थी ह लिए विद्यार्थी	शिला कहा गया है। या र लेता है तो उसका स्व तस होता है। जिस वृक्ष लगता है। इसी प्रकार वि बिनकर सभ्य नागरिक काल ही तो संदर पाठः	द यह नाव दृढ़ बन जाता है। गस्थ्य सुंदर बनता है। यदि को प्रारंभ से सुंदर सिंचन वेद्यार्थी काल में जो बालक बन जाता है। सभ्य शाला है। यहाँ पर अपने
	केस काल को कहा जाता है?			
प्रश्नः 2. गद्यांश का उपयुक्त शीर्षव				
उत्तरः			FF07. 2	
	ग्रार्थी जीवन की महत्ता स्पष्ट कीजिए।		_प्रश्नः 3.	
प्रश्नः 4. छोटे वृक्ष के पोषण का उ उत्तरः	ल्लेख किस संदर्भ में किया गया है और	क्यों?		
प्रश्नः 5. विद्यार्थी जीवन की तुलना उत्तरः	ा पाठशाला से क्यों की गई है?			
के भरने की खुशी में हो य राष्ट्रीय एवं सांस्कृतिक एव खशहाली भर देते हैं, वहीं	वाहे धार्मिक दृष्टि से मनाए जा रहे हैं, या ग महापुरुषों की याद में; सभी अपनी वि कता और अखंडता को मज़बूती प्रदान व हमारे अंदर देश-भक्ति एवं गौरव की भ गपुरुषों के उपदेश हमें बार-बार इस बात	वेशेषताओं एवं करते हैं। ये त्योह गवना के साथ-र	क्षेत्रीय प्रभाव से युक्त हं हार जहाँ जनमानस में साथ, विश्व-बंधुत्व एवं स	ड़ोने के साथ ही देश की उल्लास, उमंग एवं समन्वय की भावना भी

की और बढ़ सकते हैं।	्न त्योहारों के माध्यम से हमें यह भी शिक्षा मिलती है कि वास्तव में धम कि अलग-अलग हैं।	
लक्ष्य तक पहुँचने के तर	कि अलग-अलग है।	
प्रश्न		
प्रश्नः 1.	- Only Colored	
उपर्युक्त गद्यांश का उपर्	ुक्त शाषक ।लाखप्।	
344:		
	Sylve and the second of the se	
प्रश्न: 2.		
	या शिक्षा मिलती है ?	
उत्तर:	या शिक्षा मिलती है ?	CONTRACTOR OF SECURIOR DATE OF SECURIOR
		THE RESIDENCE OF THE PROPERTY
प्रश्न: 3.		
हमारे देश में त्योहार मन	ाने के मुख्य आधार क्या हैं ?	,
उत्तरः		
प्रश्न: 4.	न में जाग गराज है ?	
त्योहारों का हमारे जीव	न म क्या महत्त्व ह :	
उत्तरः		
उत्तरः		
Troj. 5		
	के उपदेश में समानता गद्यांश के आधार पर स्पष्ट कीजिए।	
тот. Б		
	के उपदेश में समानता गद्यांश के आधार पर स्पष्ट कीजिए।	
	के उपदेश में समानता गद्यांश के आधार पर स्पष्ट कीजिए।	
	के उपदेश में समानता गद्यांश के आधार पर स्पष्ट कीजिए।	
	के उपदेश में समानता गद्यांश के आधार पर स्पष्ट कीजिए।	
	के उपदेश में समानता गद्यांश के आधार पर स्पष्ट कीजिए।	
	के उपदेश में समानता गद्यांश के आधार पर स्पष्ट कीजिए।	
	के उपदेश में समानता गद्यांश के आधार पर स्पष्ट कीजिए।	
	के उपदेश में समानता गद्यांश के आधार पर स्पष्ट कीजिए।	
	के उपदेश में समानता गद्यांश के आधार पर स्पष्ट कीजिए।	