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Holidays' Assignments for Summer Vacations (2019-20) for Class IX

General Instructions:

1. *Get up early in the morning and go out for a walk daily.*
2. *Make a Bird feeder and add seeds for birds daily and also place water for them.*
3. *Raise a small kitchen garden by planting seeds.*
4. *Learn any one folk song.*
5. *Help your mother in cooking and learn vegetable cooking and salad decoration.*
6. *The summer break for Nursery to XII will be from May 24, 2019 to July 1, 2019 (Both days inclusive). School will reopen on July 2, 2019.*
7. *Revise the syllabus of all subjects done before summer vacations for Unit Tests to be arranged after summer break.*
8. *Try to make your handwriting better by practicing and do your HW in good handwriting.*
9. *Do assignments in separate note books for each subject and make a single project file for all projects & submit it to your class teacher on July 2, 2019.*
10. *Register & Participate in 1st stage of 5th Online International Humanity Olympiad by accessing through our web portal – www.humanityolympiad.org or Android App - Awake Humanity (play store). Every individual passing the exam (i.e. scoring minimum 40%) will get an e-certificate through e-mail immediately on their emails. School code is : FATE001*
11. *Learn all the prayers and mantras given in student diary.*

English

- **Revise all the syllabus of month April & May for unit test July-2019**
Beehive ch: 1,2 Poem: 1,2 Moments ch: 1,2 ,Tenses, modals, Article writing, Diary entry writing.
- Write Diary Entries of any 5 days during vacation which you think have something special for you.(A4 sheet)
- **Write article on the topics given below: (A4 sheet)**
 - 1) Keeping Pet Animals Is An Art.
 - 2) Strong People Always Win
- **Bravia Work sheets:**
 - 1) Do unseen passages 1 to 5 in Reading section worksheet 1to 5 (page no. 7 to 16)
 - 2) Do the following grammar worksheets in functional grammar:
Tenses (page no. 150 to 153), Modals(page no. 163 to 164), Determiners.(page no. 131 to 134)
 - 3) **Do the following worksheets in Integrated grammar section:**
Re-arrange (page no. 227 to 230), Gap-filling(page no. 209 to 212)
 - 4) Write a travelogue of any one visit or travelling of you during vacations in the holidays' package section. (Bravia activity book page no. 15 to 18)
- **Let us do something creative:**
 - 1) Convert the story of **Evelyn Glennie** into play.(A4 sheet)
 - 2) Project: **INDIAN CLASSICAL MUSIC: The Richest Heritage of Our Motherland.** Find out and mention the great musicians of India and their contribution to enrich the great Indian music. (like Bismillah Khan who brought Shehnai not only on the classical stage but also took it to the international heights and proved the deep rooted strength of Indian classical music) (A4 sheet))
 - 3) **Street play:** Street play is an informal form of theatre that has its origin in the traditional folk theatre. Usually a small group of performers put up a loosely scripted drama with a strong message in order to raise public awareness on a particular issue and try to bring about a necessary transformation in the society. It is

commonly known as ‘Nukkad Natak’ Write script for street play as per the R. No. assigned of about 15-20 minute duration.

1. Let’s Go to school(roll no. 1 to 5)
2. Importance of Voting(roll no. 6 to 10)
3. Know Your Consumer Right(roll no. 11 to 15)
4. National Integration(roll no. 16 to 20)
5. Superstitions(roll no. 21 to 25)
6. Health & Hygiene (roll no. 26 to 30)
7. Public Sanitation (roll no.31 to 35)
8. Water Conservation (roll no. 36 onwards)

4) **Student Portfolio: An Introduction:** _ Your portfolio is a statement who you are as a learner; a record of your learning experience and the progress you have made in the context of learning objectives; a tool for assessment of your performance during and at the end of the session.

In order to prepare a portfolio use a plastic folder with rings and a number of protection sheets where you can keep your projects, research work, certificates etc. Number and label the sheets carefully. **Given below are some suggested portfolio sections:**

Title

Content pages

Language Skills (listening, speaking, reading, writing)

Research and project work

Literary and creative skills

Aesthetic and Performance Skills

5. Write any 25 words on A4 sheet which have one or more letters silent during pronunciation . Also highlight the silent letter

- Read any of these books during summer vacations and come prepared to express your opinion/critical analysis of the book in class.

Suggested Reading:

- 1) The Invisible Man
- 2) Wings of fire
- 3) My Experiment with truth
- 4) Animal Farm
- 5) Great Expectations

HINDI

- 1 आपके घर में आने वाले समाचार पत्र में से कोई दस वर्ग पहेलियाँ हल करके अपनी पुस्तिका में चिपकाएँ ।
- 2 प्रकृति पर आधारित पशु पक्षियों पर आधारित इसके संरक्षण हेतु कुछ दोहे अथवा कोई दो कवितायें लिखे ।
- 3 कोई दो सामाजिक समस्याएँ कोई दो शिखा एवं आधुनिक तकनीकी से जुड़े व एवं मतदान सम्बन्धी विषयों पर निबंध लिखें।
- 4 अपनी ओर से कोई 5 अपठित गद्यांश व 5 अपठित काव्यांश के प्रश्न उत्तर हल करें ।
- 5 अनौपचारिक व औपचारिक पत्रों का प्रारूप तैयार करें ।
- 6 बीस उपसर्गों बीस प्रत्ययों का प्रयोग करके दो-दो शब्द बनाकर कोपी में लिखें ।
- 7 प्रथम इकाई परीक्षा सम्बन्धी पाठ्यक्रम की दोहराई करें।

Maths

1. Give five rational numbers between: $\frac{2}{3}$ and $\frac{3}{4}$
2. Write four irrational numbers between: (a) $\frac{3}{4}$ and $\frac{4}{5}$.
3. Express the following in the form of p/q : (i) $4.3\bar{2}$ [$\frac{389}{90}$]
4. Express $2.3\bar{6} + 0.\bar{25}$ as a fraction in the simplest form. [$\frac{2573}{990}$]
5. Evaluate : $\frac{15}{\sqrt{10} + \sqrt{20} + \sqrt{40} - \sqrt{5} - \sqrt{80}}$ [$\sqrt{10} + \sqrt{5}$]
6. Simplify : $\frac{30}{5\sqrt{3} - 3\sqrt{5}}$ [$5\sqrt{3} + 3\sqrt{5}$]
7. Find the value of a and b: $\frac{3+2\sqrt{2}}{3-\sqrt{2}} = a + b\sqrt{2}$ [$a = 13/7, b = 9/7$]
8. Find the value of a and b: $\frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}} + \frac{\sqrt{3} - \sqrt{2}}{\sqrt{3} + \sqrt{2}} = a + b\sqrt{6}$ [$a = 10, b = 0$]
9. If $x = 2 + \sqrt{3}$, find the value of $x^2 + \frac{1}{x^2}$ [14]
10. Simplify : $\frac{1}{3-\sqrt{8}} - \frac{1}{\sqrt{8}-\sqrt{7}} + \frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-2} = 5$
11. If $x = \frac{2-\sqrt{5}}{2+\sqrt{5}}$ and $y = \frac{2+\sqrt{5}}{2-\sqrt{5}}$, find the value of $x^2 - y^2$ [$144\sqrt{5}$]
12. Simplify : $7\sqrt{6} - \sqrt{252} - \sqrt{294} + 6\sqrt{7}$ [0]
13. If $a = x^{q+r} \cdot y^p$, $b = x^{r+p} \cdot y^q$, $c = x^{p+q} \cdot y^r$, Prove that $a^{q-r} \times b^{r-p} \times c^{p-q} = 1$
14. Prove that (a) $\sqrt{x^{-1}y} \cdot \sqrt{y^{-1}z} \cdot \sqrt{z^{-1}x} = 1$ (b) $\left(\frac{x^a}{x^b}\right)^{\frac{1}{ab}} \cdot \left(\frac{x^b}{x^c}\right)^{\frac{1}{bc}} \cdot \left(\frac{x^c}{x^a}\right)^{\frac{1}{ca}} = 1$
- (c) $\left(\frac{x^a}{x^b}\right)^{a^2+ab+b^2} \cdot \left(\frac{x^b}{x^c}\right)^{b^2+cb+c^2} \cdot \left(\frac{x^c}{x^a}\right)^{c^2+ac+a^2} = 1$
15. Find the value to the three places of decimals: (Use $\sqrt{2} = 1.414, \sqrt{3} = 1.732, \sqrt{5} = 2.236, \sqrt{10} = 3.162$)
 (a) $\frac{2}{\sqrt{3}}$ (b) $\frac{\sqrt{5}+1}{\sqrt{2}}$ (c) $\frac{\sqrt{2}-\sqrt{1}}{\sqrt{5}}$ [1.154 ; 2.288 ; 0.185]
16. Factorize: (i) $4x^2 + 4xy + y^2$ (ii) $9x^2 - 6xy + y^2$ (iii) $25p^2 - 36q^2$ (iv) $16a^4b + 54ab^4$ (v) $1000p^4q - 1331pq^4$ (vi) $4a^2 - 4b^2 + 4a + 1$ (vii) $x^2 + y^2 + z^2 - 2xy + 2xz - 2yz$ (viii) $a^3x^3 - 3a^2bx^2 + 3ab^2x - b^3$ (ix) $x^2 + 2xy + y^2 - 1$ (x) $(x+2)^2 + p^2 + 2p(x+2)$ (xi) $\frac{1}{8}a^3 + \frac{1}{4}a^2b + \frac{1}{6}ab^2 + \frac{1}{27}b^3$ (xii) $x^2 - (b-c)^2$ (xiii) $x^2 + 2ax - b^2 - 2ab$ (xiv) $(x^2 + x)^2 + 4(x^2 + x) - 12$ (xv) $4p^2 - 17p - 21$ (xvi) $x^2 + \frac{12}{35}x + \frac{1}{35}$ (xvii) $5\sqrt{5}x^2 + 20x + 3\sqrt{5}$ (xviii) $7x^2 + 2\sqrt{14}x + 2$ (xix) $(a+b)^3 - 8$ (xx) $(a+b)^3 - (a-b)^3$ (xxi) $2\sqrt{2}x^3 + 3\sqrt{3}y^3 + \sqrt{5}(5 - 3\sqrt{6}xy)$
17. Show that $2(a^2 + b^2) = (a + b)^2$ if $a = b$
18. If $x^2 + px + q = (x + a)(x + b)$ then factorize $x^2 + pxy + qy^2$
19. Prove that $(a + b)^3 + (b + c)^3 + (c + a)^3 - 3(a + b)(b + c)(c + a) = 2(a^3 + b^3 + c^3 - 3abc)$
20. Using factor theorem determine whether $g(x)$ is a factor of $f(x)$: $f(x) = 2\sqrt{2}x^2 + 5x + \sqrt{2}$, $g(x) = x + \sqrt{2}$
21. Find the value of a if $x + a$ is a factor of $x^4 - a^2x^2 + 3x - 6a$
22. Find the value of a if $x - a$ is a factor of $x^5 - a^2x^3 + 2x + a + 1$
23. Factorize using remainder theorem :
 (i) $x^3 - 10x^2 - 53x - 42$ (ii) $2y^3 - 5y^2 - 19y + 42$ (iii) $y^3 - 7y + 6$ (iv) $3u^3 - 4u^2 - 12u + 16$

24. If polynomial $ax^3 + 3x^2 - 13$ & $2x^3 - 5x + a$ when divided by $x - 2$, leave the same remainder find the value of a. [1]
25. Find the value of a and b so that the polynomial $x^3 - ax^2 - 13x + b$ has $(x - 1)$ & $(x + 3)$ as factors.
[a = 3, b = 15]
26. Without actually division prove that $2x^4 - 5x^3 + 2x^2 - x + 2$ is exactly divisible by $x^2 - 3x + 2$.
27. If $x^3 + mx^2 + nx + 6$ has $x-2$ as a factor and leaves remainder 3 when divided by $x-3$, find the value of m and n.
[-3, -1]
28. The polynomial $ax^3 + 3x^2 - 13$ and $2x^3 - 5x + a$ are divided by $x+2$ and remainder is same in each case, find the value of a. [5/9]
29. If $x^2 + \frac{1}{x^2} = 14$, find the value of $x^3 + \frac{1}{x^3}$. [52]
30. Simplify : $(a+b)^3 - (a-b)^3 - 6b(a^2 - b^2)$. [$8b^3$]
31. Find the value of a and b, when $a + b\sqrt{15} = \frac{\sqrt{5} + \sqrt{3}}{\sqrt{5} - \sqrt{3}}$ [4,1]
32. If $x = \frac{\sqrt{3} + 1}{\sqrt{3} - 1}$, $y = \frac{\sqrt{3} - 1}{\sqrt{3} + 1}$ then find the value of $x^2 + y^2 + xy$. [15]
33. If $x = 3 - 2\sqrt{2}$, find $x^3 - \frac{1}{x^3}$. [$-140\sqrt{2}$]
34. Prove that : $\frac{1}{\sqrt{4} + \sqrt{5}} + \frac{1}{\sqrt{5} + \sqrt{6}} + \frac{1}{\sqrt{6} + \sqrt{7}} + \frac{1}{\sqrt{7} + \sqrt{8}} + \frac{1}{\sqrt{8} + \sqrt{9}} = 1$
35. Prove that $\frac{1}{\sqrt{4} + \sqrt{5}} + \frac{1}{\sqrt{4} + \sqrt{6}} + \frac{1}{\sqrt{4} + \sqrt{8}}$ is rational .
36. If $a = 7 - 4\sqrt{3}$ then find the value of $\sqrt{a} + \frac{1}{\sqrt{a}}$ [4]
37. Simplify : $4\sqrt{20} + \frac{1}{2}\sqrt{245} - \sqrt{405}$. [$\frac{5}{2}\sqrt{5}$]
38. Evaluate $\frac{40}{2\sqrt{10} + \sqrt{20} + \sqrt{40} - 2\sqrt{5}}$ when it is given that $\sqrt{10} = 3.162$. [3.162]
39. Plot the points (4, -3), (0,-6), (5,0), (-7,-6), (4, -3), (0,-6), (5,0), (-7,-6) on the graph paper
40. In which quadrant or which axis the following points lie : (6,2), (-2,3); (0,0); (0,-6); (-7,0); (-4,-5); (3,-4).
41. Plot the points A (4, 4) & B (-4,4) and join the lines OA, OB & BA. What fig. do you obtain ?
42. Plot the points A (0, 2), B (2,2) and C (0, 2) join the lines OA, AB, BC and CO. What fig. do you obtain ?
43. Plot the points P (-6,2), and from it, draw PM and PN perpendicular to x-axis and y-axis respectively. Write the Co-ordinates of M and N.
44. Plot A (5,3), B (-2,3) & D (5,-4) are three vertices of a square ABCD plot these points on a graph paper and hence find the Co-ordinates of the vertex C.
45. If (3,1) is a solution of the equation $3x + 2y = K$, find the value of K. [11]
46. If $3x + 4y = 18$, express 'y' in terms of x. Check whether (2,3) is a solution of the given equation.
47. Solve the equation : $(x + 1) - 2(x - 1) = 0$ and represent the solution(s) graphically on (i) the number line (ii) the Cartesian plane
48. A part of monthly expenses of a family on milk is fixed which is Rs. 500 and the remaining varies with the quality milk taken extra at the rate of Rs. 20 per kg. Taking the quantity of milk required extra as x kg and the total expenditure on milk Rs. Y. Write linear equation for this information and draw its graph.
49. Show $2x - 3(y + 4) = 10$ graphically and name the points where the line meets the axes. Also state if $x = 2$, $y = 3$ is a solution of the equation.
50. The total expenditure per month of a house-hold consists of a fixed rent of the house and mess charges depending upon the number of people sharing the house. The total monthly expenditure is Rs. 7500 and 5 people in the house. Formulate a linear equation, in two variables, to express this situation.

Do Examples of Chapter I to 4

Project: 1. Draw a histogram to represent seats won by 5 major political parties in Lok Sabha Elections of 2019. (R.No.1-12)

2. India is a country with unity in diversity. People of various castes, religions and creeds live with harmony and help in development of country. Draw a pie chart to represent people of various religions in India. (R.No.13-25)

3. Collect 3-4 varieties of leaves from your neighborhood and find their areas using graph paper. (R.No.26 onwards)

SOCIAL SCIENCE

A. Prepare a short atlas by preparing maps on A-4 sheets

Chapter-1: INDIA-SIZE AND LOCATION

- **India**-States with Capitals, Tropic of Cancer, Standard Meridian, (location and labeling)

Chapter-2: PHYSICAL FEATURES OF INDIA

Mountain Ranges: The Karakoram, The Zasker, The Shivalik, The Aravali, The Vindhya, The Satpura, Wn & En Ghat.

Mountain Peaks - K2, Kanchanchunga, Anai Mudi,

Plateau - Deccan Plateau, Chotta Nagpur Plateau, Malwa plateau

Coastal Plains - Konkan, Malabar, Coromandal & Northern Circar (Location and Labeling)

Chapter-3: Drainage

- **Rivers:** (Identification only)

a) The Himalayan River Systems - The Indus, The Ganges, and The Satluj

b) The Peninsular rivers - The Narmada, The Tapi, The Kaveri, The Krishna, The Godavari, The Mahanadi

- **Lakes:** Wular, Pulicat, Sambhar, Chilika

CH-4: CLIMATE

1. Areas receiving rainfall less than 20 cm and over 400 cm (Identification only)

B: Activity: Prepare a Presentation on the following Physical Features:

1. The Himalayan Mountain (Roll no. 1 to 7)
2. The Northern Plain (Roll no. 8 to 14)
3. The Peninsular Plateau (Roll no. 15 to 21)
4. The Indian Desert (Roll no. 22 to 28)
5. The Coastal Plains (Roll no. 29 to 35)
6. The Islands (Roll no. 36 onwards)

C. Project/Activity

Locate the peaks, passes, ranges, plateaus, hills, and duns hidden in the puzzle. Try to find where these features are located. You may start your search horizontally, vertically or diagonally.

E	M	K	U	N	L	N	A	T	H	U	L	A	R	I	A	H	I	A	T
M	H	A	S	J	M	A	N	J	K	M	A	J	L	B	H	O	R	P	J
J	N	V	F	A	E	T	D	C	A	R	D	E	M	O	M	L	O	M	K
C	R	E	I	I	Q	H	M	O	I	F	T	N	X	M	A	X	F	C	T
N	M	T	S	N	A	U	Q	R	M	S	A	N	A	D	I	D	A	N	J
A	B	X	A	T	G	A	R	O	U	L	F	V	D	I	K	P	T	D	C
C	Y	C	H	I	G	A	M	M	R	D	T	I	Z	L	A	J	P	O	K
H	R	T	K	A	N	C	H	E	N	J	U	N	G	A	L	U	L	B	E
O	O	M	O	P	I	T	P	N	O	S	S	D	D	K	S	P	D	O	K
T	D	A	N	M	L	M	D	D	C	S	A	H	L	S	A	I	E	E	J
A	R	R	K	A	G	T	H	A	R	H	E	Y	D	H	H	A	I	A	R
N	S	A	A	L	I	A	T	L	E	I	Y	A	B	A	Y	T	H	R	L
A	Z	V	N	W	R	E	D	S	P	P	A	N	H	D	A	O	J	U	K
G	O	A	N	A	I	M	U	D	I	K	D	P	M	W	D	A	B	P	E
P	A	L	L	J	S	H	E	V	R	I	Y	E	V	E	R	E	S	T	M
U	O	I	M	Y	R	Y	P	A	T	L	I	G	J	E	I	T	H	A	R
R	K	I	Q	S	L	A	H	C	N	A	V	R	V	P	E	A	T	S	P

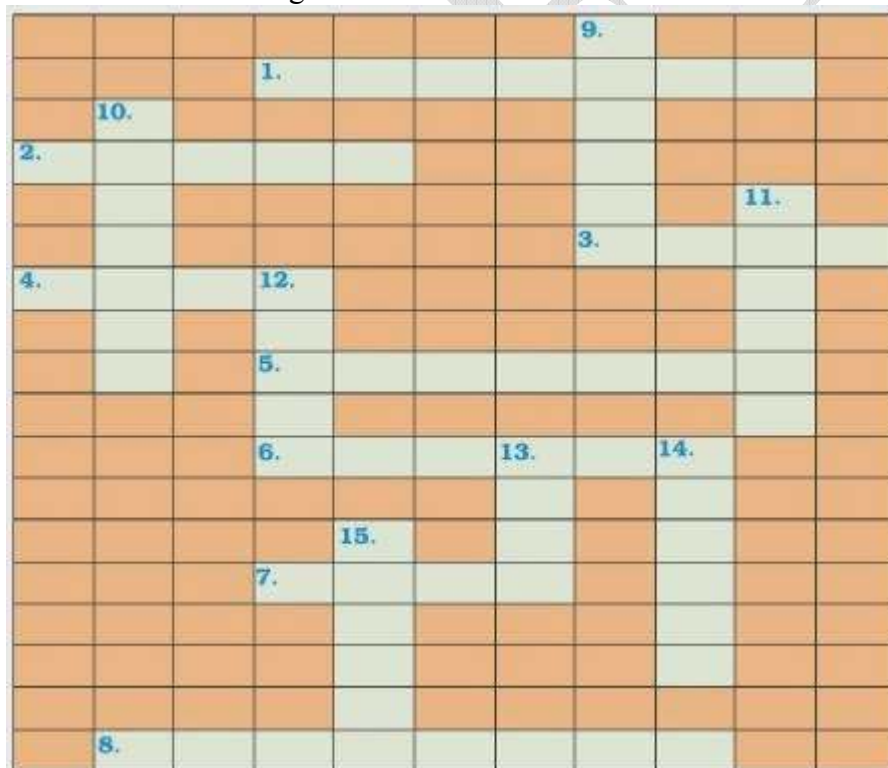
C. Project/Activity

Across

1. Nagarjuna Sagar is a river valley project. Name the river?
2. The longest river of India.
3. The river which originates from a place known as Beas Kund.
4. The river which rises in the Betul district of MP and flows westwards.
5. The river which was known as the “Sorrow” of West Bengal.
6. The river on which the reservoir for Indira Gandhi canal has been built.
7. The river whose source lies near Rohtang Pass.
8. The longest river of Peninsular India.

Down

9. A tributary of Indus originating from Himachal Pradesh.
10. The river flowing through fault, drains into the Arabian Sea.
11. A river of South India, which receives rain water both in summer and winter.
12. A river which flows through Ladakh, Gilgit and Pakistan.
13. A important river of the Indian desert.
14. The river which joins Chenab in Pakistan.
15. A river which rises at Yamunotri glacier.



D. Prepare a report on various festivals, foods, culture and agricultural activities associated with Indian Monsoon. (With pictures)

E. Answer the following value based and HOT questions:

- i) How geographical features of India have foster unity and homogeneity in Indian society?(V.B)
- ii) How Himalayas are boon for India in different ways? (V.B)
- iii) Suggest a few measures for development of water resources in India. (V.B)
- iv) What values do you learnt from the democratic setup of government? (V.B)
- v) “The Preamble is the heart and soul of Constitution”. Justify How? (HOT)

- vi) Describe the values reflected through India's contact with ancient world. (V.B)
- vii) Explain why the cities of Mumbai and Chennai are able to see the noon sun exactly overhead twice a year but daily never see it exactly overhead. (HOT)
- viii) Compare the action of Converging and diverging tectonic plates. (HOT)
- ix) "Rivers have been of fundamental importance throughout human history". Explain the statement with special reference to the economy of a country. (HOT)
- x) Describe the role of Nelson Mandela in establishing democracy in South Africa. (HOT)

F. Revise the following syllabus of Unit Test July 2019:

Geography:-

Chapter-1: INDIA-SIZE AND LOCATION

Chapter-2: PHYSICAL FEATURES OF INDIA

Chapter-3: DRAINAGE

Chapter-4: CLIMATE

Chapter-1: WHAT IS DEMOCRACY, WHY DEMOCRACY?

Chapter-2: CONSTITUTIONAL DESIGN

SCIENCE

*** Revise Lessons 1, 5, 8 (NCERT)**

*** Do all NCERT Exemplar Questions of Chapter 1, 5, 8.**

Project Work:

Students can work individually or in pairs on any of the following topics for making research work. An investigatory project report has to be prepared. The theme for the investigatory project report will be:

Theme: Science, Technology and Innovation for a clean, green and healthy nation.

Subthemes:

- Health, Hygiene and Sanitation
- Waste to wealth
- Traditional Knowledge system
- Environmental Issues and Concerns
- Society, Culture and livelihood
- Disaster Management

Sample Project 1:

Personal hygiene – for not missing out on studies

Objective:

To establish role between personal hygiene and health in everyday life, particularly for students

Methodology

1. Design and develop a questionnaire with key questions related to personal hygiene (handwashing, bathing, using soap, cleanliness – hair, nail, frequency of keeping oneself clean, and the likes)
2. Record number of children absent for a definite period (may be for a month)
3. Assess reasons behind the absence, and identify number absent due to illness
4. Correlate type of illness with parameters of personal hygiene (a common factor among children)
5. Record number of classes, chapters in different subjects missed out by the absentees
6. Record level of personal hygiene followed by the others who has been present all through the study period
7. Create awareness about personal hygiene measures to be taken and the manner in which these are to be adopted

Expected Results

Establish the role of personal hygiene with the missed out studies, signifying importance attached to personal hygiene on day-to-day basis.

Sample project -2 :

A Study on the Role of Multi-Purpose Tree Species (MPTS) in your Locality

Introduction

Multi-purpose tree species refers to the species of plants which have more than one economic/sustenance value. Such species are highly important in the context of achieving the goal of sustainable production and consumption. (For example, bamboo, banana, coconut, jackfruit etc.)

Objectives

The study may be taken with the following objectives –

- To identify and document various available MPTS in a certain locality
- To identify, analyze and document different uses of the available MPTS
- To observe and document different cultural and traditional practices and beliefs that are related to the use and management of these species
- To evaluate the economic as well as socio-cultural benefits of the MPTS
- To find out any management options/approaches needed for maintaining the MPT species along with any threats towards their availability

Methodology

- Selection of the study site/locality
- Transect walk based observation to identify various MPTS available in the study area
- Literature survey and inventorisation of available knowledge for scientific documentation of the species available
- FGD to document various uses of different MPTS available in the locality, associated management and cultural practices, traditional beliefs and norms associated with the MPTS
- Empirically calculate the economic value of the services provided by the MPTS and economic value of the products derived from them
- Observe, analyze and document various socio-cultural benefits of those MPTS
- Document any potential threat to the availability of these MPTS
- Experimentation for validation of traditional approaches of the MPTS
- Experimentation for innovative approaches for value addition, production system management etc.

Expected outcome

This study will help to identify various MPTS available in the specific locality along with various aspects of its uses, potential, benefits, socio-cultural impacts as well as management. Further, the study will also contribute towards identifying the potential threats of these species along with identification and validation of proper management approaches. This may also lead to some innovative approaches for management of these species which can increase their potential for sustainability.

Punjabi

ਯਾਦ ਕਰੋ - ਸਾਹਿਤਕ ਕਿਰਨਾਂ ਕਵਿਤਾ – 1 ਫਰੀਦਾ ਜੇ ਤੂੰ ਅਕਲਿ ਲਤੀਫ , 2 ਸਿੰਮਲ ਰੁਖੁ ਸਰਾਇਰਾ

ਸਾਹਿਤਕ ਰੰਗ ਪਾਠ - 1, ਇੱਕ ਸਧਾਰਨ ਆਦਮੀ , 2 ਪ੍ਰਦੇਸ਼ ਨਾ ਤੂੰ ਤੇਰੀ ਬਾਬਲਾ

ਵਿਆਕਰਨ - ਵਿਰੋਧੀ ਸ਼ਬਦ , ਸ਼ਬਦ ਸ਼ੁਧੀ , ਮੁਹਾਵਰੇ , ਉ , ਅ , ਏ

ਲੇਖ ਯਾਦ ਕਰੋ ਤੇ ਲਿਖੋ - (In Punjabi -B Note book) ਮਨ ਜੀਤੈ ਜਗੁ ਜੀਤ , ਨਾਨਕ ਦੁਖੀਆ ਸਭ ਸੰਸਾਰ , ਸਾਡੀਆਂ ਸਮਾਜਿਕ ਬੁਰਾਈਆਂ , ਵਿਦੇਸ਼ਾ ਵਿੱਚ ਜਾਣਾ : ਮਜਬੂਰੀ ਜਾਂ ਲਾਲਚ , ਕਾਲੇ ਧਨ ਦੇ ਪੁਜਾਰੀ : ਦੇਸ਼ ਨਾਲ ਗਦਾਰੀ