



**S.L.S D.A.V Public School, Mausam Vihar, Delhi-51**

**ISO : 9001: 2008  
Holiday Homework, 2015-16  
Class X**

TASK	Interdisciplinary project
TOPIC	Environmental Degradation
Class	X
What is an interdisciplinary project	An interdisciplinary project involves the combination of two or more disciplines

General guidelines-

1. A single report file is to be made for all the subjects.
2. The first page of the report file will have the following description

Name of group members	
Class & section	
Roll no.	
Session	

3)

Subject	Remarks to be filled by teacher	Teacher's signature
Mathematics		
Science		
Social Science		

4) The second page of the report file will have Acknowledgement. Please mention the list of websites, books referred etc.

5) The project report will be assessed under the following parameters.

RELEVANCE	TEAMWORK	EXPRESSION OF IDEAS	CONTENT	PRESENTATION
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Environmental degradation is the disintegration of the earth or deterioration of the environment through consumption of assets, for example, air, water and soil; the destruction of environments and the eradication of wildlife.. It occurs when earth's natural resources are depleted and environment is compromised in the form of extinction of species, pollution in air, water and soil, and rapid growth in population . One of the major cause of environment degradation is pollution



Pollution, in whatever form, whether it is air, water, land or noise is harmful for the environment.



Prepare an interdisciplinary project on the alarming situation of environmental degradation with the support of the guidelines given above .

- Arrange the A4 size sheets of the respective subject in the order given below

Subject	Description	Specific guidelines
Mathematics	Noise pollution is one of the major environmental pollutants that are encountered in daily life and has direct effects on human performance. Road Traffic Noise Pollution is affecting Human Work Efficiency in Government Offices, Private Organizations, and Commercial Business Centres	



Make a project report on A4 size pastel sheets.  
Make handmade diagrams

**Q.** Examine the problems of reduction of individual's efficiency in his/her respective working places due to rapidly growing vehicular traffic. Prepare a questionnaire(5 questions),to study the attitudinal response of individuals. (Focus on some major problems like headache, effect on work efficiency, less concentration, fatigue, stress, and tiredness during the time period 8 AM–8 PM). Represent your analysis in bar graphs or pie chart.

**Q** Conduct a survey on regular pollution check up of vehicles- two wheelers and four wheelers in your locality. Categorize the people on the basis of time period of pollution check for two wheelers and four wheelers separately. Represent the data graphically .

<p>Science</p>	<p>Plastics once a boon are now considered as a bane for environment. Instead it is recommended to use jute or other biodegradable substitutes for plastics.Make a project report explaining about biodegradable and non biodegradable substances and their effect on environment. Identify the non biodegradable substances that we use in our daily life and suggest biodegradable substitute for these substances.</p>	<p>-Prepare a report in not more than 2 pages. -Report should be hand written. -Can take pictures from magazine ,newspapers or internet to make the project more impressive -Can make drawings to illustrate the concept.</p>
<p>Social Science</p>	<p>Cities like Delhi have become most polluted in the world. We are all breathing poison. Keeping in mind find</p>	<p>Prepare a 3 to 4 pages report</p> <ul style="list-style-type: none"> <li>- Can make use of map to represent the data.</li> <li>- Can paste pictures of Traffic snaps.</li> <li>- Put one hand drawn picture.</li> </ul>

	out - <ul style="list-style-type: none"> <li>• What are the parameters to judge air pollution ?</li> <li>• Make a list of various causes of air pollution.</li> <li>• What measures the government has taken to check pollution level in cities ?</li> </ul>	<ul style="list-style-type: none"> <li>- Project report has to be hand written only .</li> <li>- Can also paste the news clippings, cartoons and caricatures etc .</li> <li>- Websites</li> </ul>
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**PSA ASSIGNMENT**  
**QUANTITATIVE APTITUDE**

1. A, B, C, D and E play a game of cards. A says to B, "If you give me three cards, you will have as many as E has and if I give you three cards, you will have as many as D has." A and B together have 10 cards more than what D and E together have. If B has two cards more than what C has and the total number of cards be 133, how many cards does B have?  
a) 22                      b) 23                      c) 25                      d) 35
2. There are deer and peacocks in a zoo. By counting heads they are 80. The number of their legs is 200. How many peacocks are there?  
a) 20                      b)30                      c) 50                      d) 60
3. The sum of the ages of five children born at intervals of three years each is 50 years. What is the age of the middle child?  
A. 8 yrs                      B. 10yrs                      C. 6yrs                      D. 7yrs
4. The sum of six consecutive even numbers of set-A is 402. What is the sum of another set-B of four consecutive numbers whose lowest number is 15 less than double the lowest number of set- A?  
(A) 444                      (B) 442                      (C) 440                      (D) 446
5. Mr. Gupta says to his friend with pointing towards Mr Arora "His mother and my mother are daughter – mother." How are Mr. Gupta and Arora related?  
a) Paternal Uncle – Nephew                      b) Maternal Uncle – Nephew  
c) Father – son                      d) Father-in-law – son-in-law
6. Ramesh had gone to ABC Company in search of employment. In the written test, he was asked to answer certain data-based questions. You need to help him in arriving at the correct answers by using the data provided in the box below and answer the questions.

Level	Number of employees			Additional information
	Men	Women	Total	
I	16% of total men	28% of total women		
II	18% of total men			Women to men are 2 : 3 at level II
III			25% of total employees	
IV		18% of total women		
V	1/5 <sup>th</sup> of total men	60% of the men at level V		
<b>Total</b>			1500	The ratio of men to women in the organization is 17:13.

- (a) What is the number of men working at level 3?  
 (A)136 (B)228 (C)253 (D)163
- (b) What is the number of women working at level 5?  
 (A)147 (B)182 (C) 117 (D)102
- (c) What percentage of the total employees in the organization are men who work at level I?  
 (A)9 % (B)13 % (C)18 % (D)22 %
- (d) What is the total number of women working at levels 2 and 4?  
 (A)81 (B)118 (C)219 (D) 264

7. If the resistance total in a series circuit doubles, current will:

- (a). be the same
- (b). be doubled
- (c). reduce source voltage
- (d). be halved

8. Shown here is an auto rickshaw meter. To calculate the fare, the meter uses one of the following. Which one could it be?



- (a) The milestones on the road (b) The amount of petrol used up.
- (c) The maximum speed reached (d) The number of wheels rotations.

9. In a deep valley on Earth, a person shouting will hear an echo as the sound is reflected back off the surrounding mountains. In a similar valley on the Moon, no echo will be heard. This is because

- (a) the gravitational pull on the moon is too low (b) the temperature on moon is too low

(c)there is no air on the moon (d)the mountains on the moon cannot allow the sound to travel through.

10. Which of the following is true about static charges?

- (a) They accumulate mostly on poor conductors of electricity.
- (b) They accumulate mostly on good conductors of electricity
- (c) They accumulate both on good and poor conductors of electricity.
- (d) They do not accumulate on surfaces, but are found in the air during winter.

11. If you're a fitness walker, there is no need for a commute to a health club. Your neighborhood can be your health club. You don't need a lot of fancy equipment to get a good workout either. All you need is a well-designed pair of athletic shoes, poorly designed athletic shoes can cause major foot injuries.

This paragraph best supports the statement that

- (a).Fitness walking is a better form of exercise than weight lifting.
- (b).A membership in a health club is a poor investment.
- (c) Walking outdoors provides a better workout than walking indoors.
- (d).Fitness walking is a convenient and valuable form of exercise.

12. Four jars with different liquids are taken. An iron nail is dropped in each jar. The time taken for the nail to sink to the bottom is noted down. In which jar will the nail take the LEAST time to reach the bottom?

- (a) Cough syrup
- (b) Honey
- (c) Water
- (d) oil

13. Suraj had a bottle of soft drink. As soon as he opened the bottle, the liquid in the bottle started bubbling and gas was released. Which of these can be concluded about gases based on this observation?

- (a)some gases have weight.
- (b)Some gases are colourless.
- (c)Some gases float on some liquids.
- (d)Some gases are soluble in some liquids.

14. The most commonly used bleaching agent is

- (a). Alcohol
- (b). carbon dioxide
- (c). Chlorine
- (d). sodium chlorine

15. The pH of soil varies from area to area . Very few crops grow well in acidic soil.

Therefore, farmers treat acidic soil by spreading one of the following over the fields. Identify the same?

- a. water
- b. vinegar
- c. limestone
- d. common salt

16.  $\text{NaCl} + \text{AgNO}_3 \rightarrow \text{AgCl} + \text{NaNO}_3$  is an example of \_\_\_\_\_.

- (a) neutralization reaction
- (b) redox reaction
- (c) double displacement reaction
- (d) decomposition reaction

17. Photosynthesis generally takes place in which parts of the plant?

- (a). Leaf and other chloroplast bearing parts
- (b) stem and leaf
- (c) Roots and chloroplast bearing parts
- (d) Bark and leaf

18. Oxygen in our blood is transported by a protein named

- A. Haemoglobin
- B. Keratin
- C. Collagen
- D. Myoglobin

19. Choose the alternative which is closely resembles the mirror image of the given combination.

**NATIONAL**

- (1) JANOILAI      (2) JANOITAI
- (3) JANOITAI      (4) LAOITAI

.(a)1

(b).2

(c).3

(d)

20. Sound is a kind of energy and it needs a medium to travel as it is a kind of longitudinal wave. The speed of sound in different medium is different. Along with the nature of the medium temperature also affects the speed of the sound. At 25°C speed of sound in some medium is given below :

1. Air – 346 m/s

2. Water (Distilled) – 1498 m/s

3. Water (Sea) – 1531 m/s

4. Flint Glass – 3980 m/s

5. Steel – 5960 m/s

Sound energy gets reflected through a suitable reflecting surface. An echo is a reflected sound which is heard separately. The sensation of sound persists in our brain for about 0.1 sec. To hear the echo clearly at 22°C, the minimum distance between the source of sound and obstacle should be 17.2 m as the speed of sound in air at that temperature is 344 m/s.

1) The speed of sound is more in sea water than in distilled water at the same temperature because of

(i) taste of sea water is different from distilled water

(ii) density of sea water is more than distilled water

(iii) sea water can conduct electricity

(iv) animals can survive in sea water

2) An echo is returned in 3 sec. at 22°C in a hall. What will be the distance of reflecting surface from the source.

(i) 1032 m

(ii) 516 m

(iii) 258 m

(iv) 344 m

3) The speed of sound in space will be

(i) 0 m/s

(ii) 332 m/s

(iii) 596 m/s

(iv) 1498 m/s

4) In the same medium the speed of sound

(i) increases with temperature

(ii) decreases with temperature



(iii) remains same

(iv) first increases then decreases

(हिंदी)

१) दोहे के द्वारा अंताक्षरी पूरी करें।

समय बीतने के लिए करना है कुछ काम, शुरू करो अंताक्षरी लेकर प्रभु का नाम.

i) कहत,नटत,रीझत,खिझत,मिलत,खिलत,लजियात.

भरे भौन में करत हैं, नयनन ही सब बात.

ii) \_\_\_\_\_

\_\_\_\_\_

iii) \_\_\_\_\_

\_\_\_\_\_

iv) \_\_\_\_\_

\_\_\_\_\_

v) \_\_\_\_\_

\_\_\_\_\_

२) प्रातःकालीन विद्यालयी प्रार्थना सभा छात्रों में दिन-भर के लिए ऊर्जा संचारित कर देती है, अपने विचार लिखें।

३) 'मनुष्यता' कविता से सम्बंधित परोपकार विषय पर आधारित दो कविताओं का संकलन सचित्र कीजिये।

(सभी कार्य स्कैप फ़ाइल में करें)

## **SUBJECT :- ENGLISH**

1. Create the front page of a newspaper with four handwritten articles on the topics: Environment, Politics, National, International Sports etc.; paste relevant pictures and create two advertisements to make your newspaper interesting. Do all this work on a A3 sheet. Design your paper with a catchy heading and interesting titles etc.

2. Make a book review on The Diary of a young girl by Anne Frank roll no wise (as discussed in class) on the following points:

1 Acknowledgement & Book cover

2 About the author

3 Characters

4 Summary part 1

5 Summary part 2

6 Change the ending

Note : a) Use coloured A4 sheets .

b) Write only on one side

c) Book cover and presentation should be attractive.

## **SUBJECT :- SANSKRIT**

1. विभिन्न संस्थाओं के संस्कृत भाषा में लिखित ध्येय वाक्यों को संकलित कर उनका भाव लिखकर एक परियोजना कार्य कीजिये।
2. गुरु की महत्ता पर आधारित श्लोकों को संकलित कर एक सुन्दर भित्तिपत्र का निर्माण करिये।
3. नैतिक मूल्यों पर एक परियोजना बनाइये।

## **FRENCH**

1. Lecture (Reading)- Lisez une fable de la Fontaine et faites un dossier sur les feuilles de papier de taille A4 dans une manière décorative avec -
  - Illustrez- le !
  - Préparez une guide des mots difficiles.
  - Décrivez le caractère que vous avez aimé le plus et le moins.
  - Ecrivez la morale du conte.
  - Suivez le lien [www.fablesdefontaine.com](http://www.fablesdefontaine.com)
2. Préparez une présentation power point à l'ordinateur sur l'un des éléments typiquement de la France.

- Minimum 10 slides – containing visuals ,questionnaire etc.
3. Regardez le film français Les Choristes et écrivez l’histoire en bref sur une feuille de papier de taille A4.
  4. Faites une bonne collection des mémoires de festival de Cannes qui se déroulera de 13 mai à 24 mai, cette année en France.
  5. Faites les exercices de compréhension (1-16) et de grammaire ( pgs-147,148, 158)and pgs-(74-75) ; pgs-99-110; 110-113) and pg-(61)de <GetReady>.

**NOTE : 1. PREPARE FOR THE CREDIT TEST SCHEDULED ON**

DATE	SUBJECT	SYLLABUS
6/7/2015	MATHEMATICS	1. Linear equations in two variables 2. Polynomials
13/7/2015	Social Science	1. Development 2. Power Sharing 3. Federalism 4. Growth In Industrialization 5. Resources and Development

**2. PSA Assignment to be done in respective Assignment notebook**