

HOLIDAY HOMEWORK FOR CLASS X

ENGLISH

1. Select a picture of each of the following expressions and describe them in 100 words :

- Happiness
- Anger
- Regret
- Laziness
- Fear

3. Select any **three** poems from the syllabus and highlight the presence of listed literary devices. Explain the literary devices and cite suitable examples from selected poems in your notebook. Given below is a list of literary devices that you can look for in the poem.

* simile

* metaphor

* personification

* alliteration

* repetition

* refrain

* irony

* allusion

* oxymoron

* synecdoche

* imagery

* transfer epithet

3. Create a collage of English newspaper clippings on each of the following topics:

a) Health

b) Environment

c) education

Use half chart paper for each collage

INFORMATION TECHNOLOGY

Solve all the session of Unit 1 and prepare one Role play of any topic of unit -1 of five students group. In all the Group of Role-play One Narrator must be placed .

ग्रीष्मावकाश गृहकार्य

कक्षा - दसवीं

1. विद्यालय पत्रिका बनाएँ, जिसमें स्वरचित कविता, कहानी, निबंध, लेख, संस्मरण, पहेलियाँ, चुटकुले आदि में से कोई तीन या चार रचनाएँ संकलित करे। रचनाओं का स्तर दसवीं कक्षा के अनुरूप हों।
2. पत्रिका के मुखपृष्ठ को साफ़ एवं सुंदर रचनात्मक रूप देकर बनाएँ।

SCIENCE

Biology:-

A)make an investigatory project on any of the **one topic:-**

- 1) any one hormonal disorder (diabetes mellitus,goitre,gigiantism,dwarfism)
- 2) blood & blood groups
- 3) biological magnification
- 4) ozone layer depletion
- 5) brain and its various parts
- 6) dialysis(artificial kidney)
- 7) reflex action

B) do 20 (3marks and 5 marks)questions from the topic photosynthesis,holozoic nutrition in amoeba and human being from different sample papers.

Physics:-

- 1) revise the syllabus of unit test i
- 2) solve the exercise of chapter **electricity given on page no.221-222**
- 3)learn the table 12.1 on page no.203(symbols of some commonly used components)

Chemistry:-

Students (in group of 5/6) will prepare a ppt on any one of the following topics:-

- 1) rusting of iron
- 2) rancidity

- 3) antioxidant
- 4) oxidation and reduction reaction
- 5) displacement reaction
- 6) precipitation reaction
- 7) combination reaction
- 8) rate of chemical reaction

HISTORY / POLITICAL SCIENCE

- 1- Make a project file of 15 pages on the following topic any one- social issues:-
 - (a) Environment
 - (b) Human Rights
 - (c) Gender Issue
 - (d) Child Labour
 - (e) Corruption
- 2- Locate and identify the center of nationalist movements on the political map of India.
- 3- Draw a flow chart of Nationalism in India.
- 4- Make 10 Sheets questions of each chapter of UT- I in your fair notebook.
- 5- Complete and revise all the given work.

GEOGRAPHY

1. Practise all the maps done chapterwise
2. Prepare 10 -15 short question & answer bank from each chapter in your respective notebooks.
3. Prepare a project on one of the following topics:
Sustainable development

OR

Social issues

{ Prepare them on an ivory sheets as instructed in the class }
4. Define the following terms briefly:

- 1) Resource technologically accessible, economically feasible, culturally acceptable.
- 2) EEZ
- 3) Perennial rivers
- 4) Net sown Area
- 5) Gross cropped area
- 6) Mining
- 7) Quarrying
- 8) Salinity
- 9) Alkalinity
- 10) Piedmont Plains
- 11) Duars
- 12) Chos
- 13) Terai
- 14) Bhangar
- 15) Khadar
- 16) Regur soil
- 17) Basalt region
- 18) Kankar
- 19) Guliies
- 20) Gully erosion
- 21) Badland topography
- 22) Sheet erosion
- 23) Contour erosion
- 24) Strip erosion
- 25) Shelter belts
- 26) Monoculture in vegetation cover
- 27) Hunting
- 28) Poaching
- 29) Indian Wildlife{Protection} Act
- 30) Roughage
- 31) Green Revolution
- 32) White Revolution
- 33) Deltaic Regions
- 34) Kissan credit card {KCC}
- 35) Land ceiling act
- 36) Ravines
- 37) Animal Husbandry
- 38) Fibre crops
- 39) Cash crops
- 40) Horticulture
- 41) Viticulture
- 42) Beverages
- 43) Food crop
- 44) Oxidation
- 45) Reduction
- 46) Denudation

- 47) Subsistence
- 48) Intensive
- 49) Personal accident insurance scheme
- 50) Average income
- 51) HDI
- 52) National income
- 53) Per capita income
- 54) Economic development
- 55) Developed countries
- 56) Developing countries

MATHEMATICS

1. Use Euclid division algorithm to find the HCF of :

- i) 135 and 225
- ii) 196 and 38220
- iii) 867 and 255

2. Use Euclid division lemma to show that the square of any positive integer is either of the form $3m$ or $3m+1$ for some integer m .

3. Prove that following are irrational:

- i) $\frac{1}{\sqrt{2}}$
- ii) $7\sqrt{5}$
- iii) $6+\sqrt{2}$

4. On dividing $x^3 - 3x^2 + x + 2$ by a polynomial $g(x)$, the quotient and remainder were $x - 2$ and $-2x + 4$ respectively. Find $g(x)$.

5. If the zeros of the polynomial $x^4 - 6x^3 - 26x^2 + 138x - 35$ are $2 \pm \sqrt{3}$, find other zeros.

6. For what value of k , (-4) is a zero of the polynomial $x^2 - x - (2k+2)$?

7. Find a quadratic polynomial whose zeros are $\frac{2+\sqrt{5}}{2}$ and $\frac{2-\sqrt{5}}{2}$.

8. If α and β are the zeros of the quadratic polynomial $x^2 + x - 2$ then find the value of $(\frac{1}{\alpha} + \frac{1}{\beta})$.

9. Draw the graph of the equation $5x - y = 5$ and $3x - y = 3$. Determine the co-ordinates of the vertices of the triangle formed by these line and the y-axis.

10. Solve the following pairs of the linear equations :

i) $(a - b)x + (a + b)y = a^2 - 2ab - b^2$, $(a + b)(x + y) = a^2 + b^2$

ii) $152x - 378y = -74$, $-378x + 152y = -604$

11. Prove The following:

i) $(\operatorname{cosec}\theta - \cot\theta)^2 = \frac{1 - \cos\theta}{1 + \cos\theta}$.

ii) $\frac{\cos\theta}{1 + \sin\theta} + \frac{1 + \sin\theta}{\cos\theta} = 2\sec\theta$.

$$\text{iii) } \frac{\cos\theta - \sin\theta + 1}{\cos\theta + \sin\theta - 1} = \operatorname{cosec}\theta + \cot\theta.$$

$$\text{iv) } \sqrt{\frac{1 + \sin\theta}{1 - \sin\theta}} = \sec\theta + \tan\theta$$

$$\text{v) } \frac{\sin\theta - 2\sin^3\theta}{2\cos^3\theta - \cos\theta} = \tan\theta$$

$$12. \text{ Solve for } x : \frac{1}{2a+b+2x} = \frac{1}{2a} + \frac{1}{b} + \frac{1}{2x}$$

$$13. \text{ Solve for } x: \frac{3x-4}{7} + \frac{7}{3x-4} = \frac{5}{2}$$

14. If the equation $x^2 - (2+m)x + (m^2 - 4m + 4) = 0$ has equal roots, then $m = ?$.

15. An AP the 12th term is twice the 10th term. Prove that the 36th term is twice the 16th term.

16. If the sum of first n terms of an AP is given by $S_n = 3n^2 + 2n$, find the n^{th} term of the AP.

Project work

MAKE A FILE OR PPT ON ANY ONE TOPIC FROM THE FOLLOWING:

- 1] Any five Indian mathematicians and their contributions.
- 2] Career in mathematics.
- 3] Importance of real numbers in mathematics.
- 4] Importance of trigonometry in day to day life.

HOME SCIENCE-WORK EDUCATION

1. Complete work education copy with cover page design.
2. Read two articles and paste them in work education copies. Write your review.
3. Make one article using DIY technique.

OR

3. Make one article using "Waste Material".