

HOLIDAYS' HOMEWORK (2017-18)

CLASS X

ENGLISH

INSTRUCTIONS

- Do as directed.
- Marks would be awarded on the basis of Creativity, Presentation, Content Research and timely submission.
- Last date for submission 1st JULY, 2017.

TASK-1

LISTENING

- Listen to English News and Songs and imitate the accent.
- Watch the movie JULIUS CAESAR and write the funeral speech of ANTONY.
(On Assignment Sheets)

TASK-2

SPEAKING

- Converse in English with your friends and family members.
- ASL Preparation – Prepare a short speech on the following topics for classroom presentation.
(a) Health & Hygiene (b) Social Networking Sites (c) Importance of English
(d) Demonetization.

TASK-3

READING

- Read the first fifteen chapters of the novel THE STORY OF MY LIFE by Helen Keller.
(a) Write the summary of the novel.

(b) Pen down the character sketch of the main characters from the novel.

(c) Pick out at least 50 words from the novel and write the meanings.

TASK-4

WRITING

- You are Neha/Nitin. You happen to see the following report in the newspaper:

Exercise is the key to good health. Most people think that they have got to go to fashionable gyms and do a workout in order to remain fit and healthy. Many follow strict diets so that they can keep a check on their weight. But what they don't realize is that they can keep a check on their weight. But what they don't realize is that walking and yoga are the easiest, the cheapest and the best ways to remain fit and healthy.

Using the above information and your own ideas, write an article on the benefits of walking, yoga and a balanced diet, including a few do's and don'ts. Your article must be in about 200 words.

- Pictorial presentation on any Grammar topic from your syllabus. (In Grammar notebook)

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MATHS

1. Show that only one out of three consecutive integers is divisible by 3.
2. Show that only one out of n , $n + 3$, $n + 6$ or $n + 9$ is divisible by 4.
3. Find the HCF of the following pairs of numbers using Euclid's division algorithm
1053 and 1197
4. Find the largest number which will divide 870 and 257, leaving remainder ≤ 2 , respectively.
5. 105 packets of mango juice and 240 packets of orange juice are to be stacked

canteen. If each stack is of the same height and is to contain packs of same j what would be the maximum number of packets in each stack? Also find many stacks?

6. Find the LCM and HCF of the following numbers by (prime factorization meth using Fundamental Theorem of Arithmetic.

1651,2032

7. Traffic lights at three different road crossings change after every 48 sec, 72 se and 108 sec, respectively. If they all change simultaneously at 8:20 hrs, then ; what time will they again change simultaneously?

8. The length, breadth and height of a room are 7 m 65 cm, 5 m 85 cm and 4 m 95 cm, respectively . Find the longest rod which can measure the three dimensions of the room exactly.

9. If $(x - a)$ is the factor of the polynomial $x^3 - mx^2 - 2nax + na^2$, prove that $a = m + n$ when $a \neq 0$.

10. If the polynomial $x^4 + 2x^3 + 8x^2 + 12x + 18$ is divided by another polynomial $x^2 + 5$, the remainder comes out to be $px + q$. Find the value of p and q .

11. find all the zeros of $2x^4 - 3x^3 - 3x^2 + 6x - 2$ if you know that two of its zeros are $\sqrt{2}$ and $-\sqrt{2}$.

12. Find the zeros of the quadratic polynomial $x^2 - 2x - 8$ and verify the relation between the zeros and their coefficients.

13. Form a cubic polynomial with zeros $\alpha = 3, \beta = 2$ and $\gamma = -1$, and hence find
(i) $\alpha + \beta + \gamma$ (ii) $\alpha\beta + \beta\gamma + \gamma\alpha$ (iii) $\alpha\beta\gamma$

14. Find the zeroes of the polynomial $(x) = x^3 - 5x^2 - 2x + 24$, if it is given that the product of its two zeroes is -8 .

15. If α and β are zeroes of the polynomial $21x^2 - x - 2$, find the quadratic polynomial whose zeroes are $\sqrt{\frac{\alpha}{\beta}}, \sqrt{\frac{\beta}{\alpha}}$,

16. If α and β are zeroes of the quadratic polynomial $2x^2 + 3x - 6$, then find the values of :

- i) $\alpha^2 + \beta^2$
- ii) $\alpha^2 + \beta^2 - \alpha\beta$

17. Verify that the numbers given alongside of the cubic polynomials are their zeroes. Also verify the relationship between the zeroes and the coefficients in each case :

$$P(x) = x^3 - 4x^2 + 5x - 2 \quad ; 2, 1, 1$$

SCIENCE

CHEMISTRY

- Q) Why is copper used in designing water boiler?
- Q) Why does the rate of rusting becomes fast during rainy season?
- Q) What happens when H_2O_2 get exposed to light?
- Q) Why does copper becomes green during rainy season?
- Q) If a limited amount of water is poured over quicklime and litmus test is performed with its saturated solution, then what would be your observation?
- Q) Why are photographic film packed in light proof wrappers?
- Q) A crystalline pale green compound when heated gives the characteristic odor of burning sulphur and another residue B is obtained which is brown in color .write the balance equation and identify compound A and B.
- Q) Translate the following statement into chemical equation and then balance them.
 - a. Hydrogen gas combines with nitrogen to form ammonia.
 - b. Hydrogen sulphide gas burns in air to give water and sulphur dioxide.
 - c. Barium chloride reacts with aluminium sulphate to give aluminium chloride and a precipitate of barium sulphate.
 - d. Potassium metal reacts with water to give potassium hydroxide and hydrogen gas.

PHYSICS

1. Distinguish between Kilowatt and KWH. For a heater rated at 4.4KW, 220V, Calculate the
 - a) Current drawn by the heater
 - b) Resistance of heater element
 - c) Energy consumed by heater in 5hours
 - d) Cost of running the heater if 1KWH cost Rs6.50.
2. Why does electric current starts flowing in a circuit the moment circuit is complete?
3. List the factors on which resistance of a cylindrical conductor depends and hence write an expression for its resistance. How will the resistivity and resistance of a conductor change when its length is tripled by stretching it?
4. Two metallic wires A and B of same material are connected in parallel. Wire A has length l and radius r . Wire B has length $2l$ and radius $2r$. Calculate the ratio of equivalent resistance in parallel combination and resistance of wires.
5. Two resistors with resistances 5 ohm and 10 ohm respectively are to be connected to a battery of emf 6V so as to obtain
 - 1) Minimum current flowing
 - 2) Maximum current flowing
 - a) How will you connect the resistances in each case?
 - b) Calculate the strength of the total current in the circuit in two cases.

BIOLOGY

1. Suggest some methods for the conservation of energy.
2. Throw some light on composting.
3. Distinguish between food chain and food web.
4. Prepare a list of 5 activities that you perform daily in which natural resources could be managed.
5. Why should biodegradable and non biodegradable wastes be discarded in separate dustbins?

SOCIAL SCIENCE

Instructions:-

- Do your work neat and clean.
- Homework should be done on assignment sheets.

- Read newspaper regularly.
- Learn and revise all the concept done in the class.

Q.1 Explain major features of global agricultural economy that had taken shape towards the close of 19th century?

Q.2 Collect pictures and information of world war 1 and write its causes and effects?

Q.3 Mention the name of the Noble Prize winning writer and West Indies cricketers, who were descendants of indentured labourers .

Q.5 What is net sown area? Which areas of India have more net sown area? (Paste pictures related to it)

Q.6 Explain the measures that can be adopted to more employment?

Q.7 What is Decentralization? What is the basic idea behind it?

Q.8 Explain the following terms:-

(a) Federalism

(b) Union list

(c) States list

Q.9 Explain Sustainable Development?

Q.10 Describe all the three sectors of economic activities.

❖ Prepare a project on Disaster Management.

- It includes:-
- Definition of Disaster?
- What is Disaster Management?
- Name and explain three man-made and three natural disasters.

GAMES

Gymnastics

1. History of gymnastics
2. Kind of gymnastics
3. Event for men & women

Volleyball

1. History for volleyball
2. Rule for the game
3. Fundamentals skill

Terminologies

INFORMATION TECHNOLOGY

1. Create an HTML based project of 5-10 pages associated with each other, based on any one of the topic impact of information technology.

Or

Global Warmig

Take printout of coding and output

2. Define the following
 - i. Domain name
 - ii. Client server computing
 - iii. Web server
 - iv. Web browser
 - v. WWW
3. Write a note on the following topics
 - i. “Internet is a very useful tool”
 - ii. “cyber crime”
4. Define LAN, MAN, WAN with real time examples.

HINDI

- खेती हुई सड़क दुर्घटनाओं पर चिंता व्यक्त करते हुए दो मित्रों के बीच हुए संवाद लिखो।
- चुनाव के समय नागरिकों के मत का महत्व बताते हुए मित्र को पत्र लिखो।
- प्रतिदिन समाचार-पत्र पढ़ो। किसी-चार समाचारिक घटनाओं का चित्रसहित वर्णन करो।
- अनुप्रास, उपमा, यमक व रूपक अंशुमती की परिभाषा उदाहरण सहित लिखो।
- किसी एक पर्वतीय स्थल की जलवायु, रहन-सहन, शीतिरिवाज, खान-पान व पर्यटक स्थलों का वर्णन करो।
- प्रेमचंद के जीवन व साहित्यिक परिचय देते हुए उनके द्वारा रचित किसी एक कहानी का सचित्र वर्णन करो।

- पाठ्यपुस्तक के अतिरिक्त कबीर के पाँच दीहे या तीन पद्य मित्र सहित लिखो।
- 'हम हीरो काँकशाब' - इस विषय पर निबंध लिखो।
संकेत खिंदु - भूमिका, कर्मठ व्यक्ति, परिश्रम - सफल की कुंजी, उपसंहार
- पाठ - 1, 2, और 9 के प्रश्नीत्तर याद करो।
- उपसर्ग व मूलशब्द को अलग करके लिखो।
संवेदना, अधिनायक, प्रकृति, अंलकार, शुशब्, आजन्म, परिकल्पना, दुर्दशा
- निम्नलिखित प्रत्ययों से नये शब्द बनाओ।
एला, हार, अन, आवट, अक्कड़, ई
- चार ऐसे शब्दों के उदाहरण दो जिसमें उपसर्ग व प्रत्यय दोनों का प्रयोग हुआ हो।