ADARSH VIDYALAYA MOWA

HOLIDAY PRACTICE WORK / SKILL DEVELOPMENT ACTIVITIES (2024-25)

CLASS – X

General Note:

1. *All the assigned work will be assessed and graded.*

2. *All vacation Practice work need to be done in class work copy.*

3. *Assessment of reading will be done in every exam.*

4. *Parents are requested to:*

- *Spend time & have meals together with your ward.*

- *Motivate your ward to inculcate the habit of "READING HINDI & ENGLISH Literature (Newspaper, Comics etc.)*

- *Allow them to be independent (age wise) in their daily tasks like:*

  ➢ *Arrange shelves*

  ➢ *Washing their own plates*

  ➢ *Watering plants & weeding Garden*

  ➢ *Hang/fold clean clothes*

  ➢ *Dust furniture*

  ➢ *Do simple mending (hems, buttons, etc.)*

  ➢ *Shop for groceries with list*

  ➢ *Iron clothes etc.*

- *Include your ward while preparing monthly budget.*

- *Share your family history & your childhood memories with them*

SUBJECT – ENGLISH

1. Read the chapters 'Two Stories About Flying' and 'From the Diary of Anne Frank' and write the review of it in the given format along with picture presentation.
   - A. Beginning
   - B. Middle
   - C. End
   - D. Favourite Character

2. Read the chapters' The Thief's Story' and 'Foot Prints Without Feet' and write the character sketch of the given characters in 100-150 words.
   - A. Anil
   - B. Hari Singh
   - C. Griffin

3. What are Modals? Write the rules of it with one example.

4. You are Shammi/ Sapna, resident of 12 Mall Road, Agra. You have noticed that majority of the water taps in your colony keep on leaking. Also, water drips from various joints in the supply pipes. All these lead to big wastage of potable water. Write a letter of complaint to the Municipal Commissioner, Agra Municipal Corporation requesting him to get the necessary repairs done. (100-120 words)

SUBJECT – HINDI

वाचन कार्य-

(1) पाठ 1-'नेताजी का चश्मा'कहानी समझकर पढ़ना,कठिन शब्दों के अर्थ समझते हुए प्रश्नोतर याद करना ।

(2) 'सूरदास के पद' पढ़ना

(3) नियमित रूप से समाचार-पत्र पढ़ना

लेखन कार्य-

(1) संज्ञा, सर्वनाम, विशेषण,क्रिया विशेषण,अव्यय किसे कहते हैं ,उदाहरण व भेद सहित लिखिए।

(2) कारक रचना के भेद , विभक्ति चिन्ह सहित लिखिए।

(3) बस कंडक्टर की कर्तव्यनिष्ठा की सराहना करते हुए परिवहन विभाग के अध्यक्ष को पत्र लिखिए।

(4) अनुच्छेद लेखन - 'इंस्टाग्राम औऱ आज का युवा वर्ग

संकेत बिंदु- इंस्टाग्राम की जीवन में भूमिका,भारत मे उपयोग -दुरुपयोग, लाभ-हानि

रचनात्मक कार्य-

(1) आपके शहर में नया वाटरपार्क खुला है, जिसमें पानी के खेल,रोमांचक झूलों के अलावा खेलकूद,मनोरंजन व खानपान की व्यवस्था भी है। पर्यटकों को आकर्षित करते हुए एक विज्ञापन तैयार कीजिए।

SUBJECT – MATHEMATICS

Q.1 Prove that $\sqrt{7}$ is irrational.

Q.2 Prove that $3 + 2\sqrt{5}$ is irrational.

Q.3 Prove that $\sqrt{7} - \sqrt{5}$ is irrational. Given that $\sqrt{35}$ is irrational.

Q.4 Express 0.2545454… as a fraction in simplest form

Q.5 Using prime factorization, find the LCM and HCF of

   1) 24, 36, 40
   2) 30, 72, 432
   3) 21, 28, 36, 45

Q.6 Show that 6^n can never end with the digit 0.

Q.7 Find the least number of square tiles required to pave the ceiling of a room 15m 17cm long and 9m 2cm broad.

SUBJECT- SCIENCE

Q.1 Write a short note on dual nature of light.

Q.2 What is lateral inversion?

Q.3 What are spherical mirrors?

Q.4 Draw the ray diagrams of concave mirrors, when the object is placed

(a) at the focus of the concave mirror.

(b) between pole and focus of the concave mirror.

(c) at the centre of curvature of the concave mirror.

Q.5 Answer the following questions:-
   a) What is the importance of emulsification of fats?
   b) What is the role of liver in digestive system?
   c) Write the role of haemoglobin in transport?

Q.6 Draw well labelled diagrams of the following:-
   a) Human brain
   b) Double circulation
   c) Nervous system

Q.7 Why do the walls of trachea not collapse when there is less air in it?

Q.8 Balance the following reactions and also write the type of reactions.

a) $Fe_2O_3 + C$ ---> $Fe + CO_2$
b) $H_2 + O_2$ ---> H_2O
c) $CH_3COOH + C_2H_5OH$ ---> $CH_3COOC_2H_5 + H_2O$
d) $CH_4 + O_2$ ---> $CO_2 + H_2O$
e) $KOH + H_3PO_4$ ---> $K_3PO_4 + H_2O$
f) $HCl + NH_3$ ---> NH_4Cl
g) $CuO + H_2SO_4$ ---> $CuSO_4 + H_2$
h) $Al + HCl$ ---> $AlCl_3 + H_2$
i) $Mg_3N_2 + H_2O$ ---> $MgO + NH_3$
j) $H_2CO_3 \rightarrow H_2O + CO_2$
k) $Cl_2 + NaBr \rightarrow NaCl + Br_2$
l) $Cu + AgNO_3 \rightarrow Ag + Cu(NO_3)_2$
m) $Fe + CuSO_4$ ----$\rightarrow$ $FeSO_4 + Cu$
n) $Al + Fe_2O_3$ ---$\rightarrow$ $Al_2O_3 + Fe$
o) $Pb + CuCl_2$ ---$\rightarrow$ $PbCl_2 + Cu$
p) $Pb(NO_3)_2 + KI$ ---$\rightarrow$ $PbI_2 + KNO_3$

Q.8 Prepare a working model on application of chemical reactions.
Q.9 Construct a working model of a Nephron.
Q.10 Construct a working model of the wind turbine.
Q.11 Make an innovative model (mandatory) on any one topic of
Physics- Sustainable power generation by rain water harvesting.
<div align="center">OR</div>
Chemistry - Make a model to Use electricity to remove hardness of water
<div align="center">OR</div>
Biology – Make an innovative model of microbial fuel cell and show it's application.

Note: Innovative model should not be copied from any web – resources

SUBJECT – SOCIAL SCIENCE

(A) Prepare 'My own Atlas' in your Geography copy on the following topics.

(i) On Physical map of India –1

Neighbouring Countries with capital

(ii) On Physical map of India –2

Major soils found in India

(iii) On Physical map of India - 3

Major Physiographic divisions of India

(iv) On Political map of India – 4

States with Capital

(v) On Political map of India –5

Union Territories with Capital

(vi) On Political map of India –6

Locate the following rivers-

• **River Indus**

• **River Ganga**

• **River Brahmaputra**

• **River Tapi**

• **River Narmada**

• **River Krishna**

• **River Godavari**

• **River Kaveri**

(vii) On the World map, shade the countries which became Democracies between

- **1900 – 1970 (red)**
- **1971 – 1980 (yellow)**
- **1981 – 2000 (green)**

(B) Maharashtra and Bundelkhand regions of Uttar Pradesh and Madhya Pradesh are facing water scarcity. Collect articles and pictures about the given disaster and prepare a report. Suggest ways to conserve water (In Geography copy).

SUBJECT: ARTIFICIAL INTELLIGENCE

1) **What are Machine Learning, Deep Learning and how they are used in real-world?**
2) **Which programming language is used for AI?**
3) **How can AI be used in fraud detection?**
4) **Give some real-world applications of AI.**
5) **Why do we need Artificial Intelligence?**

SUBJECT: DRAWING

Decorate your Drawing file