

MILESTONE ACADEMY

VACATION HOME- WORK

CLASS -IX

SUBMISSION DATE : -15.06.23

ENGLISH :-

1. Read the book *Wings of Fire* by APJ Abdul Kalam and write the book review of the same. Make sure you will include your personal response to the review. Also make a creative book cover, do not replicate the original book cover.
2. Collect five news items on any of the given issues. Prepare a presentation by pasting these news items and comment on any 2 of them in 120-150 words
 - Technological Developments.
 - Environmental Issues.
 - International sports.

3. Select three poems from the syllabus and highlight the presence of listed literary devices. Explain the literary devices and cite the suitable examples from selected poems.

Simile

Personification

Repetition

Refrain

Allusion

Onomatopoeia

Metaphor

Alliteration

Oxymoron

Hyperbole

Irony

NOTE- DO the given homework in Project File.

HINDI :-

क. स्वर संधि की उदाहरण सहित तालिका बनाइए।

ख .विकसित एवं समृद्ध भारत को लेकर दो मित्रों के बीच संवाद लिखिए।

SANSKRIT :-

प्र.1 प्रत्यय के भेद कितने हैं प्रत्येक के 5 उदाहरणों को लिखिए।

प्र.2 'संस्कृत भाषायाः महत्त्वम्' विषयस्य उपरि पञ्च वाक्यानि लिखत।

प्र.3 'मम प्रिय पुस्तकम्' विषयस्य उपरि दश वाक्यानि लिखत।

MATHS :-

1. Design a crossword puzzle using mathematical terms.
2. Construct a square root spiral of $\sqrt{8}$ and in each triangle write an identity from the chapter polynomial.
3. Collect an object having parallel line and a transversal and verify the following angles are equal
(i) Corresponding axiom
(ii) Alternate interior angles.
4. Draw any shape on the I quadrant and obtain its mirror image with respect to X- axis and Y - axis.
5. If $x = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$ and $y = \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$ Find the value of $x^2 + y^2 + xy$.
6. Simplify $\frac{6}{2\sqrt{3}-\sqrt{6}} + \frac{\sqrt{6}}{\sqrt{3}+\sqrt{2}} - \frac{4\sqrt{3}}{\sqrt{6}-\sqrt{2}}$
7. Factorize :
(i) $2y^3+y^2-2y-1$ (ii) $2x^2+y^2+8z^2-2\sqrt{2}xy+4\sqrt{2}yz-8xz$
8. Write the name of the quadrilateral obtained by joining the points (1,1), (6,1), (4,5), (3,5). Also find its area.
9. If $2^a = 3^b = 6^c$ then show that $c = \frac{ab}{a+b}$
10. If $a + b + c = 15$ and $a^2 + b^2 + c^2 = 83$, find the value of $a^3 + b^3 + c^3 - 3abc$.
11. In the following, determine the rational numbers x and y:
(i) $\frac{\sqrt{3}-1}{\sqrt{3}+1} = x + y\sqrt{3}$
(ii) $\frac{4+\sqrt{2}}{2+\sqrt{2}} = x - \sqrt{y}$
(iii) $\frac{3+\sqrt{2}}{3-\sqrt{2}} = x + y\sqrt{2}$
(iv) $\frac{5+3\sqrt{3}}{7+4\sqrt{3}} = x + y\sqrt{3}$
(v) $\frac{4+3\sqrt{5}}{4-3\sqrt{5}} = x + y\sqrt{5}$

SCIENCE :-

1. Draw the diagram of an animal cell and plant cell as seen through an electron microscope. Label all parts and make an comparison table on the basis of following:
A) Similarities B) Dissimilarities
2. Perform an activity of Evaporation and Condensation and shoot your video performing the same. Also submit write up about the same in less than 100 words.
3. Prepare a Model using the concepts given below (any one)
a) Motion in straight line
b) Newton's Law of motion
c) Circular Motion

SOCIAL SCIENCE:-

1. Collect information about the Silk Route. Also find out the new developments, which are improving communication routes in the regions of high altitude.



2. Newspaper making on Palampur village.(Refer Economics Ch. 1 The Story of Village Palampur)

3. Prepare collage making on different types of information (news clippings, articles, photographs, cartoons etc) about struggles for democracy in any country that is currently not democratic.



IT-

Project 1

Design following pages by using Open Office Writer features.

MILESTONE ACADEMY



PROJECT
INFORMATION TECHNOLOGY
CODE : 402

SESSION : 2022-23

SUBMITTED BY:

SUBMITTED TO:

STUDENT NAME :

TEACHER'S NAME

ROLL NO. :

CLASS & SECTION :

ACKNOWLEDGEMENT

I would like to express my special thanks of gratitude to my teacher (Name of the teacher) and our principal (Name of the principal) who gave me the golden opportunity to do this project on the topic (Write the topic name). It helped me in doing a lot of research and I came to know about a lot of things related to this topic.

Finally, I would also like to thank my parents and friends who helped me a lot in finalizing this project within the limited time frame.

Chashless pyment .

