

HOLIDAYS HOMEWORK-CLASS IX (2023-24)

SUBJECT-SOCIAL SCIENCE

NOTE-

Two Projects have been given. These projects are compulsory for all. Students should use pictures, diagrams, data, pie charts, and case study etc. Project should be neat and clean and Presentation should be proper. Hand made diagrams and pictures will be given preference in Project. Students should also write Biodata, Acknowledgement, Index, Introduction, Bibliography, Conclusion and remarks. Students can use pencil colours. Project should be completed in not more than 12 to 15 sheets.

ACTIVITY -1 CBSE-SUBJECTIVE PROJECT-

Prepare a project on the topic **Natural and Manmade** disaster.

Activity-2 CBSE ART INTEGRATED PROJECT

Prepare a project on the topic **Ecological Environment of Manipur** under the following headings

- **Climate Change**
 - **Pollution**
 - **Environmental degradation**
 - **Resources and their depletion**
 - **Vegetation and Wildlife**
 - **Genetically Modified Food and Global Warming**
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- Write questions of UT-2 SYLLABUS FROM E-CARE
 - Practice all maps related to the chapters taught in class.

Computer homework

Class -9 (IT) –

Take printout of holiday homework and bring it on button folder.

1. Create your own Bio Data not exceeding 1 page.
2. Write about the skills required for stress management including pictures in MS Word.
3. Prepare a table in word document by analysing “your strength and weakness”.
4. Do the activity 3 & 4 given in page 178.

5. Do the activity 2 given in page 185.

विषय हिंदी

ग्रीष्म अवकाश हेतु गृह कार्य (2023-24)

निर्देश:-कार्य को स्वच्छता से करें व भाषा की वर्तनी पर विशेष ध्यान दें।

1. संत कवि 'कबीर दास जी' या कवि रसखान के नीतिपरक दोहे, पदों व शब्दों का संकलन करके एक सचित्र परियोजना कार्य तैयार कीजिए। लगभग (4-5) पृष्ठ में।
2. 'भारतीय एकता व संस्कृति' को दर्शाती हुई स्वरचित एक कविता लिखें। आप इससे संबंधित कोई चित्र भी बना सकते हैं।
3. 'लहासा की ओर' पाठ में लेखक ने अपनी तिब्बत यात्रा का बड़ा ही रोमांचक वर्णन किया है, अगर आपने भी किसी पर्वतीय स्थान की यात्रा की है तो उसका अनुभव यात्रा वृत्तान्त (लेख) के रूप में लिखिए।
4. निम्नलिखित विषयों में से किसी एक विषय पर सशिक्षा (80 - 100) शब्दों में कहानी लिखें।
"करत करत अभ्यास के जड़मति होत सुजान"
अथवा।
"विद्याधन, सबसे बड़ा धन"
5. मणिपुर की (पारिस्थितिकी वातावरण) अर्थात् वहां की प्राकृतिक सुंदरता (पहाड़ नदियां पेड़-पौधे प्रकृति का सुंदर रूप) का वर्णन लगभग (2- 3) पृष्ठ में परियोजना कार्य के रूप में कीजिए।
6. करवाए गए पाठ्यक्रम की पुनरावृत्ति करें।

CLASS IX SCIENCE HOLIDAYS HOMEWORK:-

Dear Parents & Students

Vacation is an excellent time to learn new skills. It is a welcome break for the children to enjoy and explore things in their own way. Here are some interesting and fun-filled activities for the children to learn and keep them occupied during the holidays.

1. Revise the explained chapters with all extra questions-answers.
2. Read and Learn all scientific keywords from the following chapters:
 - a) Matter in our surroundings
 - b) Is matter around us pure
 - c) The fundamental unit of life
 - d) Motion
 - e) Force and laws of motion
3. Make a model on following topics from eco friendly material available at home:
 - a) Roll No. (1 – 5): To prove law of reflection of light. (Refer activity 12.5 on page 167)
 - b) Roll No. (6 – 10): Tyndall Effect Activity. For reference:
<https://www.youtube.com/watch?v=FvSxcUNtew8>
 - c) Roll No. (11 – 15): Making a toy car based on newton' law.
<https://www.youtube.com/watch?v=wHE3cLlCgs0>
 - d) Roll No. (16 – 20): Plant cell.
<https://www.youtube.com/watch?v=4dGZSWXXxgM>
4. Written Work: Que/Ans 13 to 18 Pg. No. 129 and Que/Ans 1 to 5 Pg. No. 130 of chapter Force and Laws of Motion in your Science H.W file, Do unsolved exercise given on pg. no. 120 -121 in Physics reference book and solve UT – 1 papers (set -1 & set -2) in Physics H.W file.
5. Write activity 1 and activity 2 in your science activity file from the given attached document.
6. Indulge yourself in some physical activity like Yoga and deep breathing exercises in the morning. Add protein rich food in your meal to boost your immunity.
7. Make a chart on do's and don'ts of COVID-19 virus.

8. Art Integrated Project: Make a list of national park, wild life sanctuary and biosphere reserve of Manipur state and locate them on map and list the organism for which they are known.

Roll No. (6 – 10): To study endangered, endemic and extinct species of Manipur state.

Roll No. (11 - 15): Try to study and analyse the conservation of biodiversity and sustainable management of Manipur state in tabular form.

Roll No. (16 – 20): Make a list on any 5 flora and fauna of Manipur state with their two adaptation of each.

Instructions:

Use colored A4 size colored sheets to write contents.

Begin with acknowledgement and brief introduction about Manipur on separate sheets.

Draw table and paste pictures related to the topics on the plane side of the assignment colored sheet.

Assemble all the sheets in sequence in a handmade folder.

English Homework

HOLIDAY HOMEWORK (ENGLISH)

CLASS-9

Note : The homework should be submitted in a handmade folder.

1. Prepare any 1 SDG out of 17 SDGs and write a paragraph about it. Draw and colour the logo as well.
2. Make a chart (A-4 size) about 10 poetic devices done so far along with atleast 2 examples from the textbook. Present it in a tabular/web chart form.
3. Read any 5 short stories of Ruskin Bond and write a book review on any one of it. It should include :
 - Title of the story
 - Year of publishing
 - Preface
 - Main characters
 - Genre
 - and your favourite character and why.
4. Prepare U-T-2 syllabus.

ARTS - INTEGRATED ACTIVITY. (MANIPUR)

Note : Collect the following information about the following and write a Journal about it in A-3 size sheet.

- a) Flora & Fauna of Manipur
- b) Handicrafts of Manipur
- c) Endangered Animals of Manipur
- d) Conservation and Protection Act. of Govt. for Manipur's Flora and fauna.
- e) Compare the weather pattern of 3 different cities of Manipur.



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Holidays Home Work

Class - IX

Subject - Maths

① If $\sqrt{2} = 1.4142$, then find the value of $\sqrt{\frac{\sqrt{2}-1}{\sqrt{2}+1}}$

② Simplify: $\sqrt[4]{3^2}$

③ Simplify: $(256)^{0.16} \times (256)^{0.09}$

④ Find the value of a and b, if

$$\frac{\sqrt{2} + \sqrt{3}}{3\sqrt{2} - 2\sqrt{3}} = 2 - b\sqrt{6}$$

⑤ Simplify:

$$(1^3 + 2^3 + 3^3)^{\frac{1}{2}}$$

⑥ If $a = 5 + 2\sqrt{6}$ and $b = \frac{1}{a}$, then

what will be the value of $a^2 + b^2$?

⑦ Express $0.\overline{6} + 0.\overline{7} + 0.\overline{47}$ in the form

$\frac{p}{q}$, where p & q are integers & $q \neq 0$.

⑧ Find the value of $\frac{4}{(216)^{\frac{2}{3}}} + \frac{1}{(256)^{\frac{3}{4}}} + \frac{2}{(243)^{\frac{1}{5}}}$



(9) If $x = \frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}}$ and $y = \frac{\sqrt{3} - \sqrt{2}}{\sqrt{3} + \sqrt{2}}$, then find the value of $x^2 + y^2$.

(10) If $a = \frac{3 + \sqrt{5}}{2}$, then find the value of $a^2 + \frac{1}{a^2}$.

(11) If $P(x) = x^2 - 2\sqrt{2}x + 1$ then find $P(2\sqrt{2})$.

(12) Factorize: $(x+y)^3 - (x^3 + y^3)$

(13) If $49x^2 - b = \left(7x + \frac{1}{2}\right) \left(7x + \frac{1}{2}\right)$, then find the value of b .

(14) Without actually calculating the cubes, find the value of $(x-y)^3 + (y-z)^3 + (z-x)^3$

(15) For the polynomial $\frac{x^3 + 2x + 1}{5} - \frac{7}{2}x^2 - x^6$,

- (i) the degree of the polynomial
- (ii) the coefficient of x^3
- (iii) the coefficient of x^2
- (iv) the constant term

(16) If $x+1$ is a factor of $ax^3 + x^2 - 2x + 4a - 9$, find the value of a .

(17) Factorise: $a^3 - 2\sqrt{2}b^3$

(18) If both $x-2$ and $x-\frac{1}{2}$ are factors of $Px^2 + 5x + 1$, show that $P = 12$.

19) If $a+b+c=5$ and $ab+bc+ca=0$,
prove that $\frac{a^2}{bc} + \frac{b^2}{ca} + \frac{c^2}{ab} = 3$

20) If $a+b+c=5$ and $ab+bc+ca=10$,
then prove that $a^3+b^3+c^3-3abc=-25$.

21) Plot the point $P(-6, 2)$ and from it draw PM and PN as perpendiculars to x -axis and y -axis, respectively. Write the co-ordinates of the points M and N .

22) Find the co-ordinates of the point

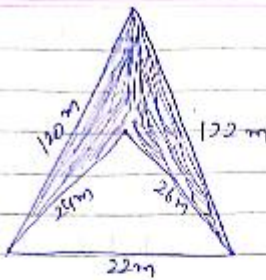
- (i) which lies on x and y axes both.
- (ii) whose ordinate is -4 and which lies on y -axis.
- (iii) whose abscissa is 5 and which lies on x -axis.

23) Three vertices of a rectangle are $(3, 2)$, $(-4, 2)$ and $(-4, 5)$. Plot these points and find the co-ordinate of the fourth vertex.

24) A point lies on the x -axis at a distance of 7 units from the y -axis. What are its co-ordinates? What will be the co-ordinates if it lies on y -axis at a distance of -7 units from x -axis?

25) Plot the points $(1, 3)$, $(-1, -1)$, $(-2, 3)$. Check whether the points are collinear or not.

26) Calculate the area of the shaded region.



- (27) If each side of triangle is double, then find the ratio of area of the new triangle thus formed and the given triangle.
- (28) The area of the isosceles triangle is $\frac{5\sqrt{11}\text{cm}^2}{4}$, if the perimeter is 11 cm and find base.
- (29) If the area of an equilateral triangle is $20\sqrt{3}\text{cm}^2$ find side.
- (30) If edges of a triangular board are 6cm, 8cm and 10cm. Find the cost of painting it at the rate of 9 paise per cm^2 .

Activity :

- * To obtain the mirror image of a given geometrical figure with respect to x-axis and y-axis.
- * To derive a formula for finding the area of a triangle.

Act Integrated Project :

Prepare the project on topic Ecological Environment

- | | |
|------------------|--------------------------------|
| • Climate Change | • Environmental degradation |
| • Pollution | • Resources of their depletion |

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