

DELHI PUBLIC SCHOOL ALIGARH

HOLIDAY HOMEWORK / CLASS-IX / 2019-20

ENGLISH

Q.1. Read any one novel out of the following and prepare a book review on it . Book review should include synopsis, main incidents and pen - portrait of any two important characters. Write it on A4 size sheet and submit it in a creative book jacket. Do not replicate the cover of the book.

Christmas Carol by Charles Dickens.

Treasure Island by R L Stevenson.

Oliver Twist by Charles Dickens

Moby Dick by Herman Melville.

Q.2. Write an article (100-150 words) or poem on any one of the following topics on A4 size sheet :

One area that Indians need to improve on the most.

Health – physical , mental and social well being .

Atrocities on women.

Addiction to Whatsapp and Facebook.

Role of English in today's life.

Moral and ethics should be an indispensable part of personality.

Has India become a country with crisis of soul?

HINDI

1. किसी विशय पर स्वरचित कविता (16–20 पंक्तियाँ), कहानी (200–250 भाब्द) तथा किसी सम सामयिक विशय पर लेख या निबंध (200–250 भाब्द) लिखकर परियोजना फाइल (Project File) में लगाकर अपने विशय अध्यापक को जमा कीजिए। कोई भी रचना किसी पत्रिका या इंटरनेट से नहीं ली गई हो।

2. रहीम के कोई छह दोहों को सस्वर याद कीजिए।

3. कक्षा में कराया गया समस्त पाठ्यक्रम याद कीजिए तथा व्याकरण के कार्य का अभ्यास कीजिए।

SANSKRIT

1-कोई भी दो पत्र छाँटकर मंजूशा की सहायता से रिक्त स्थान भर कर पुनः लिखिए।

2-अभ्यास पुस्तिका में किए हुए कार्य को याद करें।

3-कोई भी दो चित्र छाँटकर उस पर पाँच वाक्य संस्कृत में लिखिए।

4-ग्रीष्मावका में जहाँ भी भ्रमण हेतु आप जाएँ उसका वर्णन करते हुए दस वाक्य संस्कृत में लिखिए।

URDU

Select any one contemporary topic of Social or Educational importance. Collect pictures related to that topic from Urdu/ English/Hindi newspaper and from Urdu Magazine also (MahnamaUmang, BachchokiDuniya- latest issue) and prepare a Scrap Book. And also prepare a report on the same topic. (Word limit-300)

OR

Prepare a Chart Paper which will be decorated and write ISM (Noun) auruskiqismien&Sifat (Adjective) auruskiqismien.

MATHEMATICS

Assignment: (To be done in note book)

1. Simplify: $\frac{\sqrt{5}-2}{\sqrt{5}+2} + \frac{\sqrt{5}+2}{\sqrt{5}-2}$

2. If $x=2+\sqrt{3}$, find the value of $x^2 + \frac{1}{x^2}$

3. Simplify: $\sqrt{3 + 2\sqrt{2}}$

4. Find the value of $(256)^{0.16} \times (256)^{0.09}$
5. Find values of a and b in $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a-b\sqrt{3}$
6. Find the product of $\sqrt[3]{2} \cdot \sqrt[4]{2} \cdot \sqrt[12]{32}$
7. Represent $\sqrt{5.6}$ on the number line
8. If a,b,c are all non-zero and $a+b+c=0$ prove that $\frac{a^2}{bc} + \frac{b^2}{ca} + \frac{c^2}{ab} = 3$
9. Factorise $2\sqrt{2}a^3+8b^3-27c^3+18\sqrt{2}abc$
10. Find the value of $x^3-8y^3-36xy-214$, when $x=2y+6$
11. If $\frac{x}{y} + \frac{y}{x} = 1$, x and y are non zero then find the value of x^3+y^3
12. Find the values of a and b so that the polynomial x^3+10x^2+ax+b is exactly divisible by $x-1$ as well as $x-2$.
13. Find the value of k if $x-3$ is a factor of $x^3-kx^2+3kx-k$.
14. Factorise: $x^4-2x^3-7x^2+8x+12$
15. If x^2-1 is a factor of $ax^4+bx^3+cx^2+dx+e$, show that $a+c+e=b+d=0$.
16. What must be added to $x^3-3x^2-12x+19$ so that the result is exactly divisible by x^2+x-6 ?
17. Find the remainder when $p(x)=x^3-ax^2+6x-a$ is divided by $(x-a)$
18. In which quadrant do the following points lie $(2,-1), (3,0), (-2,-3), (4,6), (0,0), (6,-3)$
19. What is the perpendicular distance of the point $P(3,4)$ from the y-axis ?
20. Plot the points $P(1,0), Q(4,0)$ and $S(1,3)$. Find the coordinates of the point R such that PQRS is a square.

SCIENCE

(PHYSICS)

Q.1. Talk to your parents/ grandparents or any five different people about the technology or education system at their time and your time .Prepare a comparative project file on this.

For example-(Television/Transportation/Communication/Medicine etc).

Q.2. Solve the numerical given in Science exemplar. Chapter: Motion

Q.3. Solve all the MCQ's of the chapter – Motion from your science Exemplar.

Q.4. Can displacement be zero even when distance is not zero? Give Example.

Q.5. Is it possible in straight line motion a particle having zero speed and a non- zero velocity? Explain.

Q.6. A driver takes 0.20 seconds to apply the brakes. If he is driving car at a speed of 54 kmh^{-1} and the brakes cause a deceleration of 6.0 ms^{-2} . Find the distance travelled by the car after he sees the need to put the brakes.

CHEMISTRY

Q1. Practice all the 1mark MCQs of NCERT Exemplar (From page no. 7 and 8).

Q2. Make a chart or model on any one of the topic as discussed in class.

Q3. Answer the following questions:

- (i) It is a hot summer day; Priya and Mona are wearing cotton and nylon clothes respectively. Who do you think would be more comfortable and why?
- (ii) You want to wear your favorite shirt to a party. But the problem is that it is still wet after a wash. What steps would you take to dry it faster?

BIOLOGY

Q1. Draw a well labeled diagram of a compound microscope in your practical copy and explain its mechanical and optical parts and how to use it.

Q2. Practice all the MCQ's of lesson-cell The fundamental unit of life from Exemplar class IX SCIENCE.

Q3. Practice all the ONE MARK QUESTIONS of lesson-cell The fundamental unit of life from Exemplar class IX SCIENCE.

Q4. Discuss the following-

Cellwall is made up of tough complex substance called Cellulose

Mitochondria is called semiautonomous body.

The innermembrane of mitochondria is deeply folded

Nucleus is the control and coordinating centre of cell

Division of labour comparing the cell with any institution like school,industry,company or Hospital.

SOCIAL SCIENCE

TOPIC (GEOGRAPHY):

GETTING ACQUAINTED WITH DISASTER MANAGEMENT

Select ANY ONE of the following disasters:

Earthquakes / Floods / Cyclones

Include the following headings:

DISASTER STRIKES

EMERGENCY RESPONSE AND RELIEF

REHABILITATION AND RECONSTRUCTION

MITIGATION

PREPAREDNESS

Guidelines/Format for the Project

The total length of the project report will not be more than 15 hand written pages of A-4 size.

The project report will be presented in a neatly Biodegradable File

The project report will be hand written and credit will be awarded to original drawings, illustrations/maps and creative use of materials.

The project report will be presented in the following format:

COVER PAGE –Showing project title, student information, school and session/year.

LIST OF CONTENTS- showing page numbers.

ACKNOWLEDGEMENTS – Acknowledging the institution, teachers, offices and libraries visited and person(s) who have helped you.

PROJECT OVERVIEW –Purpose, aim, methodology and experiences while doing the project.

CHAPTERS – With relevant headings.

SUMMARY AND CONCLUSIONS - (also include some suggestions) –Based on findings.

BIBLIOGRAPHY –Should have the title, pages referred, author, publisher, year of publication and if a website, the name of the website with the specific website link which has been used. All the photographs and sketches should be labeled and well acknowledged.

COMPUTER

Create Magazine of 10 pages with attractive graphics/images using Microsoft Word.

OR

Create Annual Planner of School using Microsoft Excel.

OR

Create presentation for Product Promotion and sailing 5 to 10 slides using Microsoft Power point.

Note :Kindly submit the Holiday Homework of computers for all sections at email id dps.aligarhup@gmail.com

Mention your name and class section while sending email. (e.g. Rahul Sharma- IXA)