

JAY PRATAP SINGH PUBLIC SCHOOL

HOLIDAY HOMEWORK (2023-2024)

10A & 10B

HINDI

1. क्षितिज पाठ 1,4,10 एवं 11 का फेयर पूर्ण करें।
2. सूरदास एवं नेताजी सुभाष चन्द्र बोस पर लगभग 300 शब्दों में परियोजना कार्य करें।
3. चुनाव— प्रचार को नियंत्रित करने हेतु किसी दैनिक समाचार—पत्र के संपादक को एक पत्र लिखें।
4. लगभग 30 से 40 शब्दों में अपने मित्र को दीपावली क अवसर पर बधाई संदेश लिखिए।

ENGLISH

1. You are Rajni/Rahul, living at E95, sector 12, Dwarka. You saw an advertisement about a short-term course in computer programming by Zee Computer World, Pitampura, Delhi. Write a letter to the organisation, Seeking all the relevant course details. (100-120 words)

2. You are Rizwan Ali, a resident of 456, Rajouri Garden, New Delhi. Write a letter to the editor of a National Daily, drawing the attention of the concerned authorities to the deteriorating law and order situation in the city. (100-120 words)

3. Do Project work on the basis of proper format including related pictures on the following topics:

Format:

Cover page, with title of the project, school details/ details of students.

Statement of purpose / objectives/ goals.

Certificate of completion under the guidance of the teacher.

Action plan for the completion of the assigned tasks.

The 800-1000 words essay/ Script/ Report.

Student reflections.

If possible related Photographs paste on project file.

List of resources / bibliography.

i) A Letter to God.

ii) Dust of Snow. (For project work use channel file)

4. Complete the entire fair work in your Fair Copy as well as memorize the taught syllabus.

MATH

PART-1

NCERT

1. Chap-3 (pair of L.e in two varaoble)

Ex-3.1 Q.No 2,3

Ex-3.2 Q.No 2,3,4,7

Ex-3.3 Q.No 1 (ii),(iii),(iv),(vi),2,3 (i), (iii), (iv), (vi),2

Ex-3.4 Q.No 1(ii), (iii),(iv), 2 (i), (ii), (iii), (iv),(v)

Ex-3.5 Q.No 2(i) (ii) 4(i) (ii) (iii)(iv),(v)

Ex-3.6 Q.No 1(iii) (iv) (v) (vi) (vii) (viii) 2(ii) (iii)

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Ex-3.1 Q.No 2,7(ii) (iii) (iv) , 8(i), 9(i),(ii), 12,13,115,17

Ex-3.2 Q.No 2,4,6,8,15,16,18,19,22,24,25,28

Ex-3.3 Q.No 1,5,8,13,16,17,18

Ex-3.4 Q.No 3,6,8,10,12

PART-2

1. Do ch-1,2,3 and 4 from NCERT new books also search and solve 5 HOTS type questions in each chapter. (from Manjeet Singh)

2. Activity- To obtain conditions for consistency of a obtain of linear equations in two variables by graphical method.

3. On the graph paper ,draw the graph of quadratic polynomials x^2-1 , x^2-4 , x^2-9 and find the zeros from graph and verify with your algebraic result.

Social Studies

1. Make a separate notebook titled, “Holiday Assignment” and execute the following assignments:

Write notes on the following topics:

Revolution in Germany (in context of Chapter 1: Nationalism in Europe)

Joint forest Management programe

Role of public sector understanding in economic development

Make a chart highlighting the different soil resources describing their physical features, physical distribution and states.

2.Make a project on any of the following topic:-

Consumer Awareness

Social Issues

Sustainable management

Locate and label the maps of geography segment upto page19.

SCIENCE

BIOLOGY

PART-1

1. Define nutrition explain various mode of nutrition.
2. Draw well labelled diagram of human digestive system and explain the function of different parts of digestive system.
3. What is digestion? Explain how digestion of various component of food takes place in different portion of alimentary canal.

PART-2

1. Define gene.
2. Why acquired traits are not in herited?
3. Why Mendel choose garden per plant for his experiment?
4. How many contrasting character will observe by Mendel? Write their names.
5. Define allele and trait.
6. What is Homozygous and Heterozygous trait give example of each?
7. What is difference between Autosome and allosome (sex chromosome)
8. Explain monohy bird cross by Mendels with genotype and phenotype ration.
9. Explain mendels law of inheritance with exception (drawback).
10. Explain that ABO bloos grouping system is a co-dominance phenomenon.
11. What is incomplete dominance? Explain with example.
12. Explain dihybird cross by mendels with genotype phenotype ratio.
13. If the sperm bearing y- chromosome fertilizes the Egg, the child born will not entirely like his father –why is it so?
14. Explain “sex of a child depends on father instead of mother”.

PHYSIC

1. Size of image and object by a mirror having a focal length of 20cm in observed to be reduced to $1/3^{\text{rd}}$ of it's size. At what distance the object has been placed from the mirror? What is the nature of the image and the mirror?
2. The absolute reiterative indices of glass and water are $3/2$ and $4/3$ respectively. If the speed of light in glass in 2×10^8 m/s, then calculate the speed of light in (i) vacuum (ii) water.
3. An object 6cm high is placed at a distance of 10cm from a convex mirror of radius of curvature 30cm. find the position, nature and size of the image.
4. An object of size 5cm is placed at a distance of 20cm from a convex mirror of focal length 15cm. at what distance from the mirror should a screen be placed to get a sharp image ? also calculate the size of the image.
5. Where should an object be placed in front of a concave mirror of focal length 20cm so as to obtain real image two times magnified.

6. Light of wave length of 500nm, in air enters a glass plate of refractive index 1.5. find (i) speed (ii) Frequency and (iii) wave length of light in glass.
7. Describe an activity to determine the principal focus and appropriate focal length of a concave mirror.
8. A student wants to project the image of an candle flame on a screen 60cm in front of a mirror by keeping the flame at a distance of 10cm from its pole.
- (i) Write the type of mirror he should use.
- (ii) Find the linear magnification of image produced.
- (iii) What is the distance between the object and its image?
- (iv) Draw a ray diagram to show image formation in the is case.
9. The image of an object formed by a mirror is real, inverted and is of magnification -1 of the image is at a distance of 40cm from the mirror, where is the object placed: where would the image be if the object is moved 20cm toward the mirror? State reason and also draw ray diagram for new position of the object to justify your answer.
10. What is the principle of reversibility of light? Show that the incident ray of light is parallel to the emergent ray of light when light falls obliquely on a side of rectangular glass slab.
- (i) Have to complete fair of reflection and refraction of light with question and answer of NCERT book.
- (ii) Have to complete questions and answer of reflection and refraction of light form NCERT examples.
- (iii) Draw ray diagram of image formation by a concave mirror and convex lens, when object should be placed at different position in A-4 size paper.

CHEMISTRY

1. Make long question on NCERT Examples.
2. Make Q no 1 to 10 of NCERT Book.
3. Rahul is a skilled painter. He mixed a white compound 'X' reacted vigorously with water to produce a compound Y and a large amount of heat. Then Rahul used the compound Y for white washing the walls. Customer was not satisfied with the work of Rahul as walls were not shining. But Rahul guaranteed him that after 3 days of white wash, the wall become shining. Read the above passage carefully and give the answers of the following questions.
 - (i) Name the compound 'X'
 - (ii) Name the compound 'Y'
 - (iii) What type of reaction has occurred here?
 - (iv) Write the chemical reaction responsible for shining of the walls.
 - (v) Write the common name of 'X' and Y.
 - (vi) Make a project on the day to day reactions occurring in common life.

SANSKRIT-

- 1.क. प्रथमः, द्वितीयः पाठस्य अर्थ एवं अभ्यास कार्यं गृहकार्यं पूस्तिकायां लिखत ।
ख. पंच अनुच्छेदाः, पंचपत्राणि, पंचचित्रलेखनानि तथा विंशतिः अनुवादाः पूस्तिकायां लिखत ।
ग. सरस्वती व्याकरणस्य— क्रमशः 107—10 संधि— समास प्रत्यय , अव्यय, वाच्य, घड़ि, शुद्ध—अशुद्ध पूरणीयम ।
घ. तत्, किम्, मातृ, भानु, मति, नदी शबदरूपाणां स्मरणं कुरुत—

Computer/Aptitude/General knowledge

1. Operating system and its type along with advantages and disadvantages

Minimum 20 pages

10 pages for windows

Minimum 3 versions

Ease of access

Basic feature of control panel

Device management

Drivers

Utility software

3 page for Linux

7 pages for other OS

Do's and Don't

No copying from internet

No affixing of any printed page

It should be handwritten