

DAV PUBLIC SCHOOL DHURWA, RANCHI

Holiday Homework

Class -10.(2023-24)

Subject - Biology.

Q.A. Answer the following questions:

1. What criteria do we use whether something is alive ?
2. What processes would you consider to essential for maintaining life?
3. How is small intestine designed to absorb digested food?
4. What are the end product of starch protein and fats after digestion?
5. Make flow chart and show breakdown of glucose in various pathways.
6. Write three functions of gastric juice.
7. Give two examples of the following:
 - a. Brancheal respiration.
 - b. Tracheal respiration.
 - c. Pulmonary respiration.
8. What happen if gall bladder is removed?
9. Write the relationship between photosynthesis and respiration according to functions, phase of reaction, substrates and products.
10. Draw the well labelled diagram of digestive system and respiratory system of human.

Q. B. Make a project on Natural resources based on art integrated.

Prepare a brief write up on Topic - Natural resources.

Types of natural resources - air water and soil.

Biogeochemical cycle - water, nitrogen ,Oxygen and carbon dioxide cycle.

Global warming and ozone layer depletion.

Sec-3, Dhurwa RANCHI 4

Affiliated to CBSE Delhi

Session 2023-24

HOLIDAY HOMEWORK

CLASS – 10th

SUB- HISTORY

Q.1 Write a note on.

a) Giuseppe Mazzini

b) Frankfurt parliament

c) The role of women Marianne and Germania?

Q2. Who were the marine and Germania? What was the importance of the way in which they were portrayed?

Q 3. How was the history of nationalism Britain? Unlike the rest of Europe?

Q 4. Why did nationalist tensions emerge in the Balkans?

Q 5. Briefly trace the process of German unification.

PROJECT WORK

ART INTEGRATION PROJECT ON NATIONALISM IN INDIA

DAV PUBLIC SCHOOL

Sec-3, Dhurwa RANCHI 4

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HOLIDAY HOMEWORK

CLASS – 10th

SUB- CIVICS

Q1. What are the different forms of power sharing in Modern Democracies? Give an example of each of these.

Q 2. State one prudential reason and one Moral reason for power sharing with an example from the Indian context.

Q 3. Bring out main features of the Belgium model of Governance.

Q 4. Explain two reasons Why power sharing is desirable .

Project work

ART Integration project on power sharing .

DAV PUBLIC SCHOOL, SECTOR – III, DHURWA, RANCHI-4

(Affiliated to CBSE 10 + 2)

SUMMER ASSIGNMENT (2023-24)

CLASS- 10

SUBJECT – MATHEMATICS

1. Find the zeroes of the polynomial $6x^2 - 3 - 7x$ and verify the relationship between the zeroes and the coefficients.
2. Obtain the zeroes of the quadratic polynomial $\sqrt{3}x^2 - 8x + 4\sqrt{3}$ and verify the relation between its zeroes and coefficients.
3. Find the quadratic polynomial, sum and product of whose zeroes are -1 and -20 respectively. Also, find the zeroes of the polynomial so obtained.
4. If the product of the zeroes of the polynomial $ax^2 - 6x - 6$ is 4. Find the value of a.
5. If one zeroes of the polynomial $(a^2 + 9)x^2 + 13x + 6a$ is reciprocal of the other, find the value of a.
6. Find a quadratic polynomial whose zeroes are 1 and -3. Verify the relation between the coefficient and zeroes of the polynomial.
7. If α and β are the zeroes of the quadratic polynomial $f(x) = x^2 - 4x + 3$, find the value of $(\alpha^4 \beta^2 + \alpha^2 \beta^4)$
8. Find the value of k such that the polynomial $x^2 - (k+6)x + 2(2k - 1)$ has sum of its zeroes equal to half of their products.
9. If α and β are the zeroes of the polynomials $p(x) = 2x^2 + 5x + k$ satisfying the relation $\alpha^2 + \beta^2 + \alpha\beta = 21/4$, then find the value of k.
10. Find the quadratic polynomial, sum of whose is 8 and their product is 12. Hence, find the zeroes of the polynomial.
11. If $(x + a)$ is a factor of $(2x^2 + 2a + 5x + 10)$, then find the value of a.
12. If $2/3$ and -3 are the zeroes of the quadratic polynomial $ax^2 + 7x + b$, then find the value of a and b.
13. Solve the following system of linear equations graphically.
 $4x - 5y - 20 = 0$ and $3x + 5y - 15 = 0$. Determine the vertices of the triangle formed by the line representing the above equation and the y - axis.
14. Solve the following system of equation graphically.

$3x + 2y - 11 = 0$ and $2x - 3y + 10 = 0$. Shade the region bounded by the line and the x - axis.

15. Find the value of 'x' and 'y':

(i) $4/x + 3y = 8$

$$6/x - 4y = -5$$

(ii) $1/2x - 1/y = -1$

$$1/x + 1/2y = 8 \quad (x \neq 0, y \neq 0)$$

(iii) $3a/x - 3b/y + 5 = 0$

$$a/x + 3b/y - 2 = 0 \quad (x \neq 0, y \neq 0)$$

(iv) $6x + 3y = 7xy$

$$3x + 9y = 11xy$$

(v) $5/(x - 1) + 1/(y - 2) = 2$

$$6/(x - 1) - 3/(y - 2) = 1$$

(vi) $1/2(2x + 3y) + 12/7(3x - 2y) = 1/2$

$$7/2(2x + 3y) + 4/7(3x - 2y) = 2$$

(vii) $2/\sqrt{x} + 3/\sqrt{y} = 2$

$$4/\sqrt{x} - 9/\sqrt{y} = -1 \quad (x \neq 0, y \neq 0)$$

(viii) $(a - b)x + (a + b)y = a^2 - 2ab - b^2$

$$(a + b)(x + y) = a^2 + b^2$$

(ix) $2(ax - by) + (a + 4b) = 0$

$$2(bx + ay) + (b - 4a) = 0$$

(x) $ax/b - by/a = a + b$

$$ax - by = 2ab$$

(xi) $\sqrt{2}x - \sqrt{3}x = 0$

$$\sqrt{5}x + \sqrt{2}y = 0$$

16. Find the value of k for which the following pair of linear equations has infinitely many solutions, $2x + 3y = 7$, $(k + 1)x + (2k - 1)y = 4k + 1$

17. Find the value of k for which the given system of equation has infinitely many solutions.

$$x + (k + 1)y = 5$$

$$(k + 1)x + 9y + (1 - 8k) = 0$$

18. Find the values of k for which the pair of linear equation:

$$kx + 3y = k - 2$$

$$12x + ky = k$$

has no solution

19. The difference of two number is 4 and the difference of their reciprocal is $\frac{4}{21}$, find the numbers.

20. Five years ago, A was thrice as old as B and ten years later A shall be twice or old as B. What are the present ages of A and B.

21. Places A and B are 100 km apart on a highway one start from A and another from B at the same time. If the cars travel in the same direction at different speeds, then meet in 5 hours. If the travel towards Each Other they meet in 1 hour. What are the speeds of the two car?

22. 8 men and 12 boys can finish a piece of work in 5 days, while 6 men and 8 boys can finish it in 7 days. Find the time taken by 1 man alone and that by one boy alone to finish the work.

23. If $\sin A = \frac{8}{17}$, find other trigonometric ratios of $\angle A$.

24. $4 \tan \theta = 3$ then

Evaluate: $\left(\frac{4 \sin \theta - \cos \theta + 1}{4 \sin \theta + \cos \theta - 1} \right)$

25. $\operatorname{cosec} \theta = \frac{5}{3}$, then find the value of

$$\left(\frac{4 \sec \theta - 2 \tan \theta + 5 \sin \theta}{2 \cos \theta - 3 \operatorname{cosec} \theta + 9 \cot \theta} \right)$$

26. In $\triangle ABC$, if $\angle B = 90^\circ$, $BC = 7$ cm and $(AC - AB) = 1$ cm then find the value of $(\cos A - \sin A)$

27. $\tan^2 30^\circ \sin 30^\circ + \cos 60^\circ \sin^2 90^\circ \tan^2 60^\circ - 2 \tan 45^\circ \cos^2 0^\circ \sin 90^\circ$

28. $\tan^2 60^\circ + 4 \sin^2 45^\circ + 3 \sec^2 30^\circ + 5 \cos^2 90^\circ$

$$\operatorname{cosec} 30^\circ + \sec 60^\circ - \cot^2 30^\circ$$

29. If $\sin(A + 2B) = \frac{\sqrt{3}}{2}$ and $\cos(A + 4B) = 0$, $A > B$ and $0^\circ < A + B \leq 90^\circ$, then find the value of A and B.

30. $\sin A = \sqrt{3}/2$ and $\cos B = 1/\sqrt{2}$ then find the value of $(\tan A - \tan B)$
 $(1 + \tan A \tan B)$

31. $6x = \sec A$ and $6/x = \tan A$, find the value of $9(x^2 - 1/x^2)$

PROJECT WORK: -

- i. Make table for T - Ratio of $0^\circ, 30^\circ, 45^\circ, 60^\circ, 90^\circ$
- ii. Trigonometric ratio of an acute angles of a right triangle.
- iii. Conditions for solvability of linear equation.
- iv. Relation between the zeroes and coefficients of a quadratic polynomials.

ART INTEGRATED PROJECT ON ANY ONE OF THE FOLLOWING: -

Make table for T - Ratio of $0^\circ, 30^\circ, 45^\circ, 60^\circ, 90^\circ$

Trigonometric ratio of an acute angles of a right triangle.

Conditions for solvability of linear equation.

Relation between the zeroes and coefficients of a quadratic polynomials.

NOTE:- MAKE YOUR SUMMER ASSIGNMENT IN A SEPARATE COPY

DAV Public School
Sec-3, Dhurwa Ranchi 4
Affiliate to CBSE Delhi
Holiday Homework
Session 2023-24

Class: X.

Subject: English

General Instructions.

Do all questions.

Do holiday homework in a separate thin notebook.

WRITING SKILL

Q1) LETTER WRITING (Letter to Editor)

a) You are Advil of D- 6, Modern Society, New Enclave, Dehradun. You are concerned at the frequent cases of cloud- burst and landslides in uttarakhand during the rainy season. Write a letter to the editor of a national daily highlighting the plight of the helpless residents during such calamities. You suggest that a better whether forecasting measures can give the desired results in coping with such calamities. (100-120 words)

b) "Catch them young!" This the policy that USA and China follow to identify their superstars while they are still in schools. Write a letter to the editor of a national daily urging the Centre and the states to evolve a comprehensive national sports policy where their main thrust be on identifying the budding athletes and sports persons when they are still in schools. You are Abhinav of 12 L, Vaishali Nagar, Meera Marg, Sonpath.(100-120 words)

(Letter of Complaint)

a) Write a letter to M/ S Atma Ram & Sons, Kashmiri Gate, Indore, complaining that the books sent by him were not exactly those you had ordered for. Some of the book sent are of old editions and some of them are not in proper condition. Ask for replacement immediately. You are Darshana, Head Librarian, Happy Public School, Indore.(100-120 words)

b)You are Akshita of Maharaja Ranjit Public School, Jodhpur. You arranged a trip for 40 students to Shimla during the summer vacation for a week with Lakshmi travels and tour, Jodhpur. It was found that the arrangement made by the travel agency were far below the general standard. The accommodation and food facilities were inferior in quality. Write a letter of complaint to the Director of the agencies to stop duping tourists with false promises as it tarnishes the image of travel agencies.(100-120 words)

Q2) Analytical Paragraph

a) The data given below shows international brands of shoes and their respective shares in the high-end shoe market in India in the year 2020. Study the data carefully and write an analytical paragraph in 100-120 words giving the general trends and other necessary details. Don't forget to compare the segments where relevant.

Nike : 20%. Bata : 15%. Adidas: 15%. Woodland: 10% Lee Cooper: 10% Fila: 8%.
Puma: 12%. Others: 10%

b) 'Beti Bachao, Beti Padhao' Meri an empty slogan. It is a great shame that in spite of all our talks India remains one of the most insecured places for girls and women. Write an analytical paragraph in 100 to 120 words taking help from the verbal input given below.

Hints:- Beti bachao and Beti padhao - a great slogan - proved hollow - wishful statements -little follow up actions - crime against girls and women in Haryana, Delhi, UP and other states - child marriage - dowry - female infanticide - negligible representation in legislature -women not safe.

GRAMMAR

Q3) Fill up the blanks by using the correct tense form of the verbs given in brackets.

(i) Kate Middleton may (a) _____(be) looked dainty and fairly- like wedding gown but(b)_____ (talk) doing the rounds(c)_____ (be) that the dress bore a striking similarity with Grace Kelly's wedding outfit. Royal wedding fans could not (d)_____ (help) noticing that the both the brides (e)_____ (wear) dramatic gowns with similar V- shaped necklines and long white lace sleeves at their, respective weddings, (f) _____(report) the New York Daily.

Q4) Read the following paragraph and fill in the blanks with appropriate determiners.

There are so (a) _____ ways of entertainment in life. (b) _____ circus is one of the most entertaining media. Last Sunday (c)_____ of (d)_____ friends went to see the Diamond Circus. My uncle took us there. (e) _____ one paid for (f) _____ ticket.

LITERATURE

Q5) Explain the following literary devices and cite suitable examples:-

a) Simile. b) Metaphor c) Personification. d) Alliteration. e) Repetition.
f) Oxymoron. g)Onomatopoeia h) Hyperbole. I) Allusion. j)
Apostrophe k) Irony. l) Paradox.

Project :

Do the project on art integration from your book.

DAV PUBLIC SCHOOL

. Sector-3, dhurwa ranchi

. Affiliated to CBSE 10+2

Class 10 (sanskrit)

.Holiday Home work

- 1) प्रथम पाठ--- अभ्यास प्रश्न-- 1,2,3,4 अभ्यास उत्तर लिखिए।
- 2) शुचिपरयावरणम श्लोक-- 1,2, का श्लोक सहित भावार्थ लिखिए।
- 3) द्वितीय पाठ-- बुद्धिबलवती सदा -- 3,5, 7, का अभ्यास उत्तर लिखिए।
- 4) चतुर्थ पाठ-- शिशुलालनम नाट्यांश का भावार्थ 100 शब्द लिखिए।

(रचनात्मक कार्यम)

- 5) सखी ' प्रति लिखितम अधः पत्रं लिखत ।
- 6) तपोवन ' इति विषयम अनुच्छेद लिखत।

(व्याकरण)

- 7) प्रत्यय की परिभषा लिखे और स्त्री प्रत्यय से दस प्रत्यय लिखे।
- 8) व्यंजन संधि से दससंधि सन्धिविच्छेद करे।
- 9) शब्द रूप-- साधु और पिता विभक्ति वचन के साथ लिखिए।
- 10) समाकित कला परियोजना कार्यम (Art Intrigated project)