DAV Public School Gandhi Nagar (CCL), Ranchi – 8

Holiday Home – Work (2018-19)

Class: X

ENGLISH

1. Choose any work of fiction. Attempt a review of the book in about 250 words.

2. Being touch with an English news paper , note down any five difficult word and five positive headlines for each day.

3. Attempt a movie review in about 250 words.

4. Learn these unusual literary devices and note down their detail meanings:

   Oxymoron, Inversion, Synecdoche, Litotes, Zeugma

5. Do a self analysis, write a para on "My Strength and Weakness" in 150 words.

SANSKRIT

1. सन्धिविच्छेदं करोतुः—उच्छ्वासः,शङ्करः,सन्दीपः,नवीनम्,पितराविव,विच्छेदः,शिरश्छेदः,तच्छुत्वा मातृच्छाया

2. .सन्धिः कार्या :—अनु +छेदः, प्रति+छाया, तत्+शोभा, भयम्+करः,अहम्+कारः, शब्दार्थौं+ इव,को+इता, वि+आकरणम्, राजन्+च, कस्मिन्+चित्

3. समास–विग्रहंकुरुः— राजभवनम्, महाराजः, मधुरवचनानि, विद्यारत्नम्, उपवनम्, निर्जनम्,प्रत्येकम्, गजेशः, महेशः, महीशः ,दिनेशः

4. वाङ्मयं तपः इति पाठस्य श्श्लोकानाम् अन्वयं कुरुत।

5. वाङ्मयं तपः पाठस्य पंचविंशतिः पदानाम् व्याकरणिकं परिचयं लिखतु।

6. कानिचित् पंचचित्राणि आश्रित्य प्रतिपंचवाक्येषु तेषां वर्णनं करोतु।

7. मणिका प्रथमहद्वयोः पाठयोः कानिचित् 100 पदानि आश्रित्य शब्दकोशानुसारम् लिखतु।

Chemistry

1) Balance the following equation:

(a) $Pb_3O_4 + HCl$ → $PbCl_2 + Cl_2 + H_2O$

(b) $V_2O_5 + Ca$ → $V + CaO$

(c) $CuSo_4 + KI$ → $K_2SO_4 + Cu_2I_2 + I_2$

(d) $MnO_2 + Al$ → $Mn + Al_2O_3$

(e) $I_2 + HNO_3$ → $HIO_3 + NO_2 + H_2O$

(f) $Al + CuCl_2$ → $AlCl_3 + Cu$

(g) $KMnO_4 + HCl$ → $KCl + MnCl_2 + Cl_2 + H_2O$

(h) $Cu + HNO_3$ → $Cu (NO_3)_2 + H_2O + NO_2$

(i) $Cu + HNO_3 +$ → $Cu(NO_3)_2 + H_2O + NO$

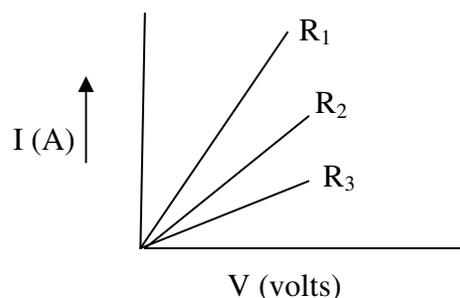(j) $H_2S + HNO_3$ → $NO + H_2O + S$

2)   Give an activity to explain each of the following reactions:

(a)   Decomposition need   (b) Displacement need   (c) Double displacement need

3)   Translate the following statement into chemical equality and balance them.

(a)   Barium chloride reacts with aluminium sulphate to form aluminium chloride and barium sulphate.

(b)   Hydrogen Sulphide gas burns in air to form water and Sulphur dioxides.

(c)   Zinc reacts with copper nitrate to form zinc nitrate and copper.

(d)   Lead nitrate is strongly heated to form lead oxide , Nitrogen dioxide and oxygen.

Chemistry (Enrichment Questions)

1.   A white salt on heating decomposes to give brown fumes and yellow residue is left behind. Name the salt and write the reaction involved.

2.   Justify with the help of an example that displacement reaction is also a redox reaction.

3   calculate amount of water formed when 8 gm of H_2 is allowed to react completely with oxygen.

4   Compound A when dissolved in water gives compound B and liberates heat . Compound A is used in white washing . Compound B reacts with CO_2 to form a white precipitate of compound C . Identify compound A , B, C. Also write the equation involved.

5.   What happens when:

i) CaO   is added to water taken in a beaker.

ii) Ba $(OH)_2$ IS mixed with NH_4Cl.

iii) Copper is heated with oxygen.

iv) $H_2(g)$ is passed over red hot CuO.

Physics

1.   What will be the length of a nichrome wire of resistance 5Ω, if the length of similar wire of 120cm has resistance of 2.5Ω? Why?

2.   Aluminium wire has radius 0.25mm and length of 75m. If the resistance of the wire is 10Ω. Calculate the resistivity of aluminium.

3.   An electrician puts a fuse of rating 5A in that part of domestic electrical circuit in which an electrical heater of rating 1.5KW, 220V is operating. What is likely to happen in this case and why? What change, if any needs to be made?

4.   Consider the given figure in which a student plots the V – I graph for three resistance R_1, R_2 and R_3 respectively.

(i)   Which of the resistances has maximum value?

(ii)   Which of the resistances has the last value?

5.   A resistor of 8ohm is connected in parallel with another resistor X. The resultant resistance of the combination is 5ohm. What is the value of X?

BIOLOGY

1. Write experiment 1(a) and 1(b) in Bio practical record ;--

   (a) Preparing a temporary mount of leaf peel to show stomata.

   (b) Experimentally show that Carbon dioxide is given out during Respiration.

2. Answer the following:------
   a) Define (a) Nutrition (b) Peristaltic movement
   b) How desert plants perform photosynthesis if their stomata remain closed during the day?
   c) Mention the role of the following in digestion : i) Pepsin ii) Saliva
      iii) Villi iv) Bile juice
   d) Name two different ways in which glucose is oxidized to provide energy in various organisms ? Also write the difference between the two ways of oxidation of glucose in organisms .
   e) Why is the rate of breathing in aquatic organisms much faster than in terrestrial organisms ?

Social Science

Geography

SUBJECT ENRICHMENT

1) How land degradation is responsible for decrease in agricultural production?
2) Distinguish between Bhangar and Kadhar?
3) What were the main objectives of Agenda 21?
4) On the political map of India locate and label the different soil types with appropriate index.

HOLIDAY HOMEWORK

1) Draw the diagram of soil profile and explain how factors responsible for soil formation.
2) Why data for only 93% of the land is available in India?
3) What are the main reasons responsible for land degradation in India?

Political Science and History

1. Why are power sharing needed in democracy?
2. How are powers shared in modern democracies? Explain with examples.
3. Do you think India is a Federal State and why?
4. Why did the colonial powers need colonies?

Economics

1. Make a comparative study of development of different states of India on the basis of following
a) Infant Mortality Rate
b) Literacy Rate
c) Net Attendance Ratio and

d) Per Capita Income

States are : Jharkhand, Assam Delhi Gujrat , Maharashtra, Karnataka, Orissa, and Bihar.

Draw your conclusion of performance of the above mentioned states and express the result in tabular and graphiocal form.

Hindi

1. 'रस' की परिभाषा देते हुए भेदों की चर्चा करें। रस के विविध अंगों का स्पष्टी करण करें।
2. रस के समस्त भेदों के तीन–तीन उद्हारण देकर स्पष्ट करें।
3. रचना के आधार पर वाक्य के भेदों के दस–दस उदाहरण दीजिए।
4. निम्नलिखित रेखांकित पदो ंके व्याकरणिक परिचय दें –
    क.   मनोज की जेब कट गई।
    ख.   वह बहुत तेज दौड़ता हे।
    ग.   बगीचे में लाल फूलों की मात्रा अधिक है।
    घ.   ओह! कितनी गर्मी लग रही है।
    ड.   यह कमीज कैसे फट गई?
    च.   मैं चाहता हूँ कि तुम परीक्षा में अच्छे अंक लाओ।
5. निम्नांकित वाक्यों में आश्रित व मुख्य उपवाक्य को चिह्नित करें।
    क.   वह अच्छा लड़का है इसलिए मैं उससे स्नेह करता हूँ।
    ख.   जब वर्षा होती है तब किसान प्रसन्न होते हैं।
    ग.   जो बच्चे उद्यमी होते हैं उन्हें सफलता अवश्य मिलती है।
    घ.   जैसा करोगे वैसा भरोगे।
    ड.   नेताजी ने कहा था कि तुम मुझे खून दो मैं तुम्हें आजादी दूँगा।

Subject Enrichment

1. रामवृक्ष बेनीपुरी के व्यक्तित्व व कृतित्व पर प्रकाश डालिए।
2. सूर्यकां त्रिपाठी निराला के जीवन चरित्र का वर्णन करते हुए उनकी रचनाओं का संक्षिप्त परिचय दें।
3. किसी रमणीय स्थान की यात्रा के अनुभव का अपने शब्दों में वर्णन कीजिए (500 शब्दों में)

Computer Science

1. Make a presentation on the topic 'Ease of access center' using any open source presentation package.
2. Write a detailed note on:
    (a)   Types of networks and their characteristics
    (b)   Internet and its use in today's scenario
    (c)   Effects of social networking on today's generation.

Maths

1. Find the H.C.F. and L.C.M. of 612 & 1314 by fundamental theorem of arithmetic .
2. Find the H.C.F. of 25, 16 & 49 by prime factorization method.
3. Show that $\sqrt{3} + \sqrt{5}$ is not a prime number.
4. Prove that among a, a+2 & a +4 any one is divisible by 3.
5. Find the least number of square tiles required to pave the celling of a room 15m.17cm. long and 9m.2cm. broad.
6. Find the largest no. of four digits no. which when divided by 4, 7 and 13 leaves a remainder of 3 in each case.
7. If the product of the zeros of the polynomial (ax^2 -6x -6) is 4 ,find the value of a.

8. Find the zeros of the polynomial $6x^2 -3 -7x$ and verify the relationship between the zeros and coefficients.
9. If a and b are zeros of a polynomial $2x^2 +3x +2$,find out a polynomial whose zeros are (i) a^3 & b^3 (ii) a/b &b/a.
10. Find all zeros of the polynomial $(2x^4 -11x^3 +7x^2 +13x -7)$,it being given that two of its zeros are $(3 +\sqrt{2})$ and $(3 -\sqrt{2})$.

Holiday Homework
Question from R.S.Aggarwal book
     Page no.8 Q.N. 3,5,6 & 8.
     Page no. 16 Q.N. 7, 12, 16 &18.
     Page no. 34 Q.N. 5 &8.
     Page no. 49 Q.N. 11, 15 & 18.

Drawing: Any two festival (Composition)