

NOIDA PUBLIC SCHOOL, NOIDA
A-78, Sector-23, Noida-201301, G.B.Ngr. U.P.
SUMMER VACATION ASSIGNMENT (2018 -19) Class-X

General Instructions:

Dear Parents

1. Make sure all syllabus of Unit Test 1 must be revised once in the last week of vacation as it becomes easier for student to retain and adjust after the long break.
2. Kindly make sure that your ward must come to school in neat and clean proper school uniform and proper haircut.
3. Your ward must bring Summer Break Assignment completed by him/her during holidays and positively submit by 2nd July 2018 to the class teacher.
4. The school will reopen on 2nd July 2018 at its usual timings i.e. 7:30am.
5. Summer Vacation Assignment is also available at www.noidapublicschool.com

ENGLISH

Answer the following on A4 sized ruled sheets

1. If you were granted a wish to invent a gadget, what would it be? Give reasons for your choice. Draw a picture showing what would it look like.
2. What does 'Being An Indian' mean to you. Make a list of things that makes you feel proud to be an Indian.
3. Two main parks in your locality have suffered from neglect on the part of local authorities. They have virtually been taken over by undesirable elements. As a result the residents have stopped going to the park.
Write a letter in about 100-120 words to the Editor of a local newspaper expressing your concern about the problems the neglect has created and suggest measures to reclaim the park for children.
4. You intend to join coaching classes at International Coaching Centre situated in Raipur. The institute specializes in teaching science to classes XI – XII. Write a letter of enquiry in about 100-120 words addressed to the Administrator in-charge of the institute seeking clarification about the timing, duration, staff, transport and other necessary details for joining the institute. You are Rajesh/Rajni, Library Road, Jabalpur.
5. One of your cousins though well educated, is not able to get a job. His family is earnestly in need of money but he does not want to do the jobs which he feels are low standard or are not white collared jobs. Based on your reading of the lesson *Two Gentlemen Of Verona* discuss what would you have done if you were in his place.(80-100 words)
6. Frog like people are not talented but opportunists. They can adopt any means to achieve their goals. While standing on the path of life you can also reach your goals using foul means or shortcuts. What will you do? (80-100 words)
7. Write a story with an ending..... and thus the boys realized the importance of honesty in life. (150-180 words)
8. Write a short story with the beginning_ The doorbell rang. Sunil opened the door. He was surprised to see.....(150-180 words)
9. The following paragraph has not been edited. There is one error in each line against which a blank is given. Write the incorrect word and the correction in your notebook .

Why does we seek to build dams ?
 Large dams are ensure a storage of
 adequate water not just in irrigation,
 and also for generating electricity.
 Canal systems leading from this dams
 amount of _____
 water. However, mismanagement in the water
 has led to disappointment in people.

Incorrect Does	Correct do
(a) _____	_____
(b) _____	_____
(c) _____	_____
(d) _____	_____
(e) _____	_____ should transfer large
(f) _____	_____

10. The following paragraph has not been edited. There is one word missing in each line against which ablank is given. Write the word that comes before it and the word that comes after it in your notebook .

The leaves as well as the roots a
 carrot edible. Carrots contain
 substantial amount carotene.
 Carrots are good the eyes
 It is advised eat carrots
 raw they lose most of their
 Vitamins when heated cooked.

Word Before	Missing Word	Word After
e.g., roots	of	a
(a) _____	_____	_____
(b) _____	_____	_____
(c) _____	_____	_____
(d) _____	_____	_____
(e) _____	_____	_____
(f) _____	_____	_____

MATHS

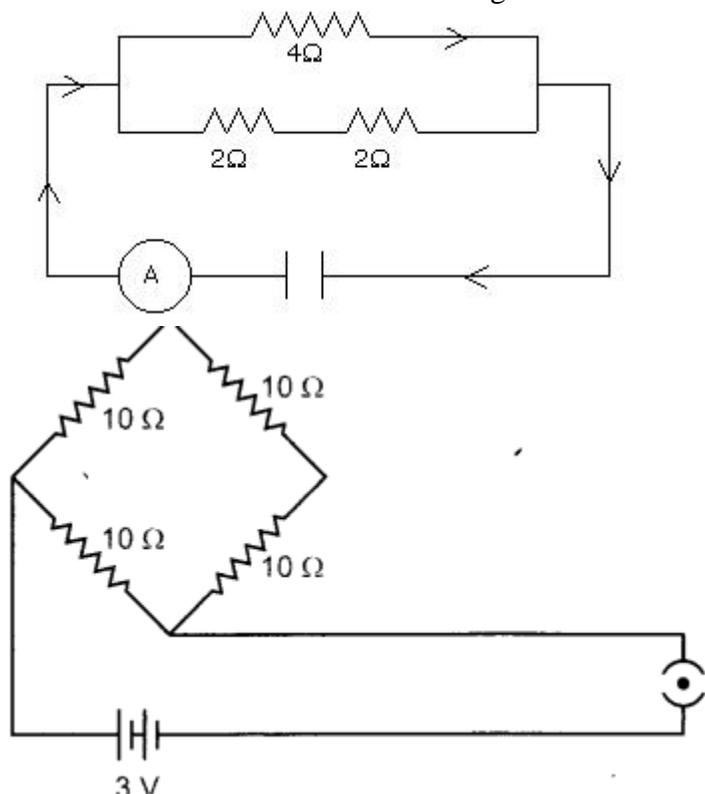
1. Find the greatest integer which on dividing 245 and 1029 leaves the remainder 5 in each case
2. Find the greatest integer which on dividing 280 and 1245 leaves the remainder 4 and 5 respectively
3. Find the smallest number which when increased by 17 is exactly divisible by both 520 and 468
4. What is the smallest which, when divided by 35, 56 and 91 leaves the remainder in each case?
5. Prove that the square of any positive integer is of the form $5q$, $5q+1$ OR $5q+4$ for same integer q
6. A merchant has 120 litres of oil of one kind, 180 litre of another kind and 240 litre of the third kind. He wants to sell the oil by filling the three kind of oil in time of equal capacity. What should be the greatest capacity of such 9 tin?
7. A mass on has to fit a bathroom with square marble tiles of the largest possible size. The size of this would be the size in has of the tile required and how many such tile would be required. (1 feet =12 inches)
8. Prove that $\sqrt{3}+\sqrt{2}$ is irrational
9. If $HCF(a, 8) =4$, $LCM(a, 8) =24$ then find the value of a .

SCIENCE

PHYSICS

1. Define the term “electric current..Write its SI unit.
2. Define resistance and conductance of a conductor.write their units.
3. State the factors on which resistance of a conductor depends and how? .
4. State ohms law .write mathematical form of ohm’s law.write down its conditions.
5. Which is more 1coulumb or charge of an electron?find number of electrons which make 1 C of charge.

- Define 1 Volt of electric potential difference .Name the device which (i) measures (ii) maintains , potential between points of a conductor?
- Draw V-I graph for (a) ohmic (b) non-ohmic conductor
- A Battery of 5V can flow 10C of charge in a conductor .calculate energy supplied by a battery.
- Find the total resistance in the diagram below



CHEMISTRY

- What change will you observe if white silver chloride is placed in sunlight? Write an equation for the reaction and the type of reaction.
- A,B and C are three elements which undergo chemical reactions ,According to the following equations
 - $A_2O_3 + 2 B \rightarrow B_2O_3 + 2A$
 - $3CSO_4 + 2B \rightarrow B_2(SO_4)_3 + 3C$
 - $3CO + 2A \rightarrow A_2O_3 + 3C$
 Answer the following questions with reasons
 - Which element is the most reactive?
 - Which element is the least reactive?
 - What is the type of reactions listed above?
- What is a redox reaction? Identify the substance oxidized and substance reduced in the following reactions
 - $MnO_2 + 4HCl \rightarrow MnCl_2 + 2H_2O + Cl_2$
 - $CuO + H_2 \rightarrow Cu + H_2O$
- Write a balanced chemical equation to represent the following reaction Carbon Monoxide reacts with hydrogen gas at 340 atm. To form methyl alcohol.
- Write the observation with reaction for the following Granulated zinc reacts with dilute sulphuric acid.
- Name two salts that are used for black and white photography. Give reactions when they are exposed to sunlight.
- What happens when an iron nail is put inside copper sulphate solution? Write reaction with observation.

8. (a) What do you see when a magnesium ribbon is burnt? Is magnesium oxidized or reduced in the reaction?
(b) Define corrosion.
9. A solution of potassium chloride when mixed with silver nitrate solution, an insoluble white substance is formed. Write the chemical reactions involved and also mention the type of reaction.
10. A substance X, which is an oxide of a metal, is used extensively in the cement industry. This element is present in bones also. On treatment with water, it forms a mixture which turns red litmus blue. Identify X and also write the chemical reaction involved.
11. Why do we store silver chloride in dark colored bottles?
12. Oxidation and reduction processes occur simultaneously. Justify the statement.
13. A metal nitrate A on heating gives a yellowish brown metal oxide along with a brown gas B and a colorless gas C. Aqueous solution of A on reaction with potassium iodide forms a yellow precipitate of compound D. Identify A, B, C and D.
14. Ferrous sulphate crystals decompose with the evolution of a gas with a characteristic smell of burning sulphur. Write the chemical reaction involved and the type of reaction.
15. A solution of potassium chloride when mixed with silver nitrate solution, an insoluble white substance is formed. Write the type of chemical reaction and the corresponding balanced chemical equation.
16. In a solution of copper sulphate, a strip of metal M was inserted. After some time, the colour of copper sulphate solution faded away. Which metal is more reactive and which one is less? Give equation. Also mention the type of reaction.
17. Name one metal which can displace zinc from its salt solution and one metal which cannot displace zinc from its salt solution.
18. What happens when limestone is heated strongly? What type of reaction is this?
19. What happens when an aqueous solution of barium chloride is mixed with an aqueous solution of sodium sulphate? Write the equation also.
20. Give an example of a reaction which is both an exothermic and combination reaction.
21. Why does milkiness disappear when carbon dioxide is passed through lime water in excess?
22. Suggest any two observations in an activity which may suggest that a chemical reaction has taken place. Give example in support of your answer.
23. What is wrong with the following equation- $N + 3H \rightarrow NH_3$
24. Solid calcium oxide was taken in a container and water was added to it slowly.
- (i) State any two observations made in the experiment.
(ii) Write the name and chemical formula of the product.

BIOLOGY

- 1) Define life processes.
- 2) How saprophytes are different from parasites?
- 3) Difference between parasitic and holozoic nutrition.
- 4) Explain how do simple organisms like amoeba obtain their nutrition?
- 5) Draw and explain the structure of stomata.
- 6) Explain the mechanism of photosynthesis and its significance
- 7) Explain the human digestive system?
- 8) Draw a label diagram of human digestive system
- 9) What is the function of hydrochloric acid present in stomach?
- 10) Show with the help of activity:
 - a) light is necessary for photosynthesis
 - b) chloroplasts are necessary for photosynthesis
 - c) carbon dioxide is necessary for photosynthesis

- 11) Name the enzyme present in saliva of human beings. State its function.
- 12) Write the digestive function of liver.
- 13) Difference between autotrophic and heterotrophic nutrition.
- 14) How is acidic medium maintained in the stomach?
- 15) How microvilli enhance absorption of food in the intestine?
- 16) What is the role of pepsin in the digestion of food?
- 17) What is the role of lipase in the digestion of food?
- 18) Relate the function of small intestine to its unique structure.
- 19) Although bile juice has no digestive enzymes, still it is considered important why?
- 20) How does liver help to maintain the blood glucose level?

SOCIAL SCIENCE

POLITICAL SCIENCE (POWER SHARING)

1. Why power sharing is desirable? Explain giving any three prudential reasons.
2. Which three demands of the Sri Lankan Tamils accepted and met with, can settle the ethnic conflict in Sri Lanka for good? Explain.
3. Explain the vertical division of power giving example from India.
4. Describe any three majoritarian measures adopted by the Sri Lankan Government to establish Sinhala supremacy.
5. Mention any three elements of power sharing model evolved in Belgium.
6. "Power Sharing is the very spirit of democracy". Justify this statement with three suitable points.
7. Describe any three provisions of the Act which was passed in Sri Lanka in 1956 to establish Sinhala supremacy.
8. How far do you agree with the statement that power sharing is keeping with the spirit of democracy?
9. Highlight the measures adopted by the Belgium Constitution for the prevention of conflicts in Belgium.
10. 'Sharing of powers makes a country more powerful and united'. Do you agree with this statement and why?

GEOGRAPHY (WATER RESOURCES)

1. Highlight any three hydraulic structures as part of water management programmes initiated in ancient India along with the period when they were built.
2. "Rain water harvesting system is a viable alternative both socially, economically and environmentally". Support the statement with three examples.
3. What is bamboo drip irrigation? Mention any two features of it.
4. Explain the working of underground tanks as part of roof top rain water harvesting system practiced in Rajasthan.
5. List any three advantages and three disadvantages of Multipurpose River Project.
6. Describe the rainwater harvesting system being carried out in semi-arid and arid regions of Rajasthan.
7. How have intensive industrialisation and urbanization posed a great pressure on existing fresh water resources in India? Explain.
8. "In recent years, multi purpose projects and large dams have come under great scrutiny and opposition." Support the statement with three arguments.
9. How has irrigation changed the cropping pattern in many regions of India? Explain with the examples.
10. "It is essential to conserve and manage our water resources" Analyse the statement.

ECONOMICS(DEVELOPMENT)

1. “Development for one may be the destruction for the other”. Do you agree with the statement ? Justify your answer.
2. Developmental goals are conflicting goals also. Explain with an example.
3. What is Human Development Report ? Which organisation measures HDR ? Explain the three major indicators of H.D.R.
4. Why is the issue of sustainability important for development ? Explain.
5. In what respect is the criterion used by the UNDP for measuring development different from the one used by the World Bank ? Explain.
6. Explain any three criteria used by Human Development Report to classify various countries.
7. “Money in your pocket can not buy all the goods and services that you need to live well.” Support the statement with suitable examples.
8. If you get a job in a far off place before accepting it, you would try to consider many factors. Explain any five such factors
9. Describe any five conditions or aspects that you would consider before accepting a job ?
10. Why is sustainable development essential ? How does it help to prevent environmental degradation ?

PROJECT: Prepare projects on the following an about 12-15 pages. First page must be having all the details of the student alongwith school Name. Second pages must be having Index. Introduction, Acknowledgement, certificate , conclusion and bibliography must be there.

1. Prepare a photo essay on Nationalist and culturalist movements which played a vital role in freedom struggle of India. Photo Essay. (Nationalist and culturist movement between 1915 to 1947)
2. Project -- Disaster Management -- Man-made (Terrorism, road accidents etc)

ART AND CRAFT

Make painting of Indian classical dance forms A3 Ivory sheets.

- Kathak kali – (Roll no. 01 to 15)
- Bharat Natyam – (Roll no16. above)

COMPUTER SCIENCE

1. Look in computer magazines for various input and output devices.
 - Make 2 columns on a piece of paper or in a word processor
 - Use the information in the magazine to build the 2 columns
 - Gather additional information for the input/output devices in the list.
 - Figure out how many devices you have never seen before.
 - Find out where you can find out these devices being used.
2. Make a chart on:
 - Roll no 1-10: Computer Networking
 - Roll no 11-20: Domain name and their use
 - Roll no 21-30: Cyber crime
 - Roll no 31 and above: Areas of career in computers
3. In August 2012, the Government of India ordered the blocking of several websites including Facebook , Twitter, Google to avoid panic among North East migrants living across the country.
 - Do you think it is justified to block such websites.

- What in your opinion, what kind of images should be uploaded on networking websites.
4. LaleemaChakradhar wants a broadband connection for accessing her mails and staying informed about the latest happenings on the field of Biotechnology. Can you suggest 2 Internet Service Providers of India to be approached for the same.
5. Make a list of 20 IP addresses and name the sites.

HINDI :- निबंध :- (1) 'बीता समय फिर लौटता नहीं'

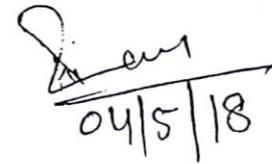
(1) महानगरीय जीवन

पत्र :- (1) आपके क्षेत्र के पार्क को कूड़ादान बना दिया था। अब पुलिस की पहल और मदद से पुनः खेल का मैदान बन गया है। अतः आप पुलिस आयुक्त को धन्यवाद पत्र लिखिए।

विज्ञापन :- पर्यावरण के प्रति जागरूकता बढ़ाने के लिए 50 शब्दों का आकर्षक विज्ञापन तैयार कीजिए।

पुनरावृत्ति :- प्रथम मासिक परीक्षा का पाठ्यक्रम याद कर लीजिए।

अपारिक्त :- गद्यांश, पद्यांश के प्रश्नोत्तर का अभ्यास कीजिए।


04/5/18

