



# Navyug Vidyalaya, Bhagalpur

Class-X

## Assignment-III Session (2020-21)

Subject - Hindi (C.N. Jha 9334006244)

निर्देश – सभी छात्र-छात्रायें अपने उत्तर-पत्र के प्रथम पृष्ठ में अपना नामांकन संख्या, नाम, वर्ग+खंड अवश्य लिखें।

- रचना के आधार पर कोष्ठक में दिए गए निर्देशानुसार वाक्य परिवर्तन कीजिए—
  - तुम आकर पिताजी के स्वास्थ्य के बारे में बताओं। (मिश्रवाक्य)
  - सत्य बोलो। कटु सत्य न बोलो। (संयुक्त वाक्य)
  - मैं नित्य व्यायाम करता हूँ और स्नान करता हूँ। (सरलवाक्य)
  - मिश्र वाक्य के एक अन्य उदाहरण लिखें।
- निर्देशानुसार वाक्य परिवर्तन करें:—
  - घायल सैनिक चल नहीं सकता। (भाववाच्य)
  - धौनी द्वारा शतक लगाया गया। (कर्तृवाच्य)
  - राम ने लंका का राज्य विभीषण को दे दिया। (कर्मवाच्य)
  - माँ बेटे को दुलार करती है। (कर्मवाच्य)
- आपका छोटी भाई कुसंगति में पड़ गया है। उसे एक पत्र लिखिए, जिसमें कुसंगति से बचने की शिक्षा दी गई हो।
- नेताजी का चश्मा पाठ के आधार पर – आपके विचार में देश और देश प्रेम क्या है?
  - चश्मेवाला नेताजी से क्षमा क्यों मांगता था?
  - गोपियाँ उद्धव की बातें सुनकर निराश क्यों हो जाती हैं?
  - 'गुर चाँटी ज्यों पागी' कहकर गोपियाँ अपनी और कृष्ण की किस दशा का बोध करा रही हैं?
  - सूरदास किस काल के कवि हैं? भ्रमर गीत का पिता में कवि सूरदास ने किस रस का सजीव वर्णन किया है ?
  - 'मन की मन ही माँझ रही' का भाव स्पष्ट करते हुए इसमें निहित अलंकार को स्पष्ट करें।

Subject - Sanskrit (C.N. Jha 9334006244)

निर्देश – सभी छात्र-छात्रायें अपने उत्तर-पत्र के प्रथम पृष्ठ में अपना नामांकन संख्या, नाम, वर्ग+खंड अवश्य लिखें।

- जन्म दिवसोत्सवे कालघटिकां लब्ध्वा पितृव्यं प्रति लिखितं इदं धन्यवाद पत्रं मञ्जूषायाः उचितैः पदैः रिक्तस्थाने पूरयत—  
(जन्म दिवस पर कालघटिका (घड़ी) पाकर अपने चाचा ने प्रति लिखे गए धन्यवाद पत्र को मूंजषा के उचित पदों से रिक्तस्थान पूरा करें)।

परीक्षाभवनात्

(i).....

दिनांक

मान्याः (ii).....चरणाः

सादरं चरणवन्दना।

मम जन्मोत्सवे (iii).....प्रेषिता। अयम् उपहारः मे (iv).....। आधुनिके (v).....तु समयस्य (vi).....अस्ति। अधुना अहम् (vii).....समुचितं पालनं करिष्यामि। मम (viii).....  
.....स्वीकरो तु भवान्। पूज्यायै पितृव्यायै (ix).....।

भवदीयः सुतः

(x).....

मञ्जूषा- (पितृव्य,अतीव रोचते, धन्यवादम्, भवता कालघटिक समये, अनुजः, विलासपुरम्, सादरं नमस्कारम्, समयस्य, पालनम् आवश्यकम्)

2.



**Subject- English (Sanju Kumari 7250400855)**

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Chapter 1 -A triumph of surgery

- I. Answer the following questions in 30-40 words each.
  - (i) Why is Mrs. Pumphrey worried about Tricki?
  - (ii) What made James Herriot expect a call from Mrs. Pumphrey?
  - (iii) What made Mrs. Pumphrey call the vet?
  - (iv) How can you say that it was hard for Mrs. Pumphrey to part with her dog?
  - (v) What kind of treatment was given to Tricki? Did it help in his recovery?
  - (vi) Why is Herriot tempted to keep Tricki on as a permanent guest?
  - (vii) Do you think Tricki was enjoying his stay at the hospital?
  - (viii) Why does Mrs. Pumphrey think the dog's recovery is a triumph of surgery?
  - (ix) Do you think there are also parents like Mrs. Pumphrey?
  - (x) Briefly describe Herriot's days of content.
2. Answer the following questions in about 100-150 words.
  - (i) Excess of everything is bad comment in the wake of Mrs. Pumphrey's love for Tricki.
  - (ii) Write the character sketch of Mrs. Pumphrey.
  - (iii) How did Herriot save Tricki's life?
  - (iv) Describe Tricki's stay at James Herriot's surgery, highlighting his behaviour and his rapid recovery.
3. Choose the difficult words and write the meaning from the chapter I- A Triumph of surgery.

**Subject - Maths (A.K. Singh 8210432541)**

Question no. 1 to 10 MCQ and other subjective

1. If  $x=3$  is a solution of the equation  $3x^2+(k-1)x+9=0$  then k is
  - (a) 11
  - (b) -11
  - (c) 13
  - (d) None
2. The sum of the roots of the equation  $x^2-6x+2=0$  is
  - (a) 2
  - (b) -2
  - (c) 6
  - (d) None
3. The ratio of the sum and product of the roots of  $7x^2-12x+18=0$  is

- (a)7:12                      (b)7:18                      (c)3:2                      (d) None
4. If one root of  $5x^2+13x+K=0$  be the reciprocal of other root than K is  
 (a)0                      (b)1                      (c)5                      (d) None
5. If the sum of roots is 6 and product is 6, the equation is  
 (a) $x^2 - 6x + 6 = 0$     (b) $x^2 + 6x - 6=0$     (c) $x^2 - 6x - 6 = 0$     (d)None
6. If the roots of  $ax^2 + bx + c = 0$  are equal then c is  
 (a) $^{-b}/2a$                       (b) $b/2a$                       (c) $\frac{b^2}{4a}$                       (d) None
7. The roots of  $ax^2 + bx + c = 0$ ,  $a \neq 0$  are real and unequal if( $b^2 - 4ac$ ) is  
 (a) $>0$                       (b)=0                      (c) $<0$                       (d) None
8. The product of roots of  $x^2 - 6x + 2 = 0$  is  
 (a)2                      (b)-2                      (c)-6                      (d) None
9. If one root of  $2x^2 + ax + 6 = 0$  is 2 then a is  
 (a)7                      (b)-7                      (c) $7/2$                       (d) None
10. If the sum of the roots of  $Kx^2 + 2x + 3K = 0$  is equal to their product then K is  
 (a) $1/3$                       (b) $^{-1}/3$                       (c) $2/3$                       (d) None
11. Solve for x:  
 $\frac{1}{x+4} - \frac{1}{x-7} = \frac{11}{30}$ ,  $x \neq -4,7$
12. Solve for x:  
 $\frac{1}{a+b+x} = \frac{1}{a} + \frac{1}{b} + \frac{1}{x}$  [ $x \neq 0, x \neq -(a+b)$ ]
13. Solve by completing square Method:  
 $x^2 - 6x + 3 = 0$
14. Solve by quadratic formula Method:  
 $x^2 - 4x - 1 = 0$
15. Find the value of K for which  $(K - 12)x^2 + 2(K - 12)x + 2 = 0$  has equal roots.
16. The sum of the squares of two consecutive odd numbers is 394. Find the numbers.
17. The sum of the squares of two consecutive even number is 340. Find the numbers.
18. The sum of two natural numbers is 9 and the sum of their reciprocals is  $1/2$ . Find the numbers.
19. The difference of two natural numbers is 5 and the difference of their reciprocals is  $1/10$ . Find the numbers.
20. The difference of squares of two natural numbers is 180. The square of smaller number is 8 times the larger number. Find the numbers.

**Subject- History (N. Dubey 9431609372)**

Nationalism in India

- Where did Mahatma Gandhi first try the weapon of Satyagraha?
- Where was the first Satyagraha started by Mahatma Gandhi in India in 1917?
- Who was the Khalifa?
- When was the Non-Cooperation programme started?
- Why did Gandhiji withdraw the Non-Cooperation movement?

6. Who wrote "Vande Matram"?
7. Why did Gandhiji experiment with Satyagraha at Champaran in Bihar?
8. Who organised the Dalits into depression classes association?
9. What was Simon commission?
10. Name the Round table conference attended by Gandhiji in London.
11. Explain the idea of Satyagraha according to Gandhiji.
12. How could non-cooperation become a movement? Explain with examples.
13. Why is Satyagraha not to be classified as passive resistance according to Gandhiji.
14. Describe the reaction of the people of Jallianwalla Bagh massacre. How did the British respond?
15. What were the agreements reached in the Gandhi-Irwin pact?
16. What was the impact of the first world war on the economic condition in India?
17. How the First World War helped in the growth of the National movement in India.
18. How was Rowlatt Act opposed by the Indian people? Explain with three examples.
19. What was the Khilafat issue? Explain.
20. Why Gandhiji supported the Khilafat movement?

**Subject- Geography (G.N. Jha 9431872861)**

1. Explain the role of human in resource development.
2. Explain the types of resources on the basis of origin.
3. Which type of resources is iron ore?
4. Give the classification of resources.
5. Differentiate between renewable and non-renewable resources.
6. Why is resource planning essential?
7. What are the basis of classification of soils of India?
8. How is soil important natural resources?
9. List the main characteristics of alluvial soils.
10. Explain the importance of biodiversity for human begins.
11. What is biodiversity? Why is it important for human life?
12. Classification of plants and animals as per ICUN.
13. Explain three causes of depletion of forests in India.
14. Write any three measures to conserve ecosystem.
15. Write a brief note on 'Project Tiger'.
16. Why is it necessary to increase the area of Forest in India?
17. How many types of Forest are classified in India? Explain it.
18. Describe any three features of "Joint Forest Management".
19. How have the technical and economic development led to more consumption of resources.
20. Explain land use pattern in India any why has the land under forest not increased much since 1960-61.

**Subject - Economics (S.S. Suman 9934228288)**

1. Write the developmental goals for urban unemployed youth.
2. What do you mean by Body Mass Index?
3. What should be the developmental goal of a country?
4. Give full form of UNDP and HDR.
5. Give formula of Body Mass Index.
6. Development of a country can generally be determined by
  - (i) its per capita income
  - (ii) its average literacy level
  - (iii) health status of its people

(iv) all the above

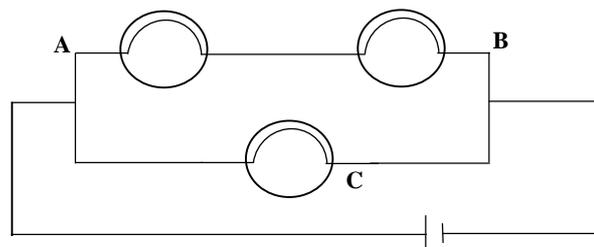
7. What do you mean by average income?
8. Define sustainable development. Write any three rate of sustainable development in our environment.
9. Write the component of Human Development Index. and define its component of HDI.
10. What is meant by Economic Development? What are the two bases of measuring economic development of a country?
11. Is crude oil essential for the development process in a country? Discuss.
12. Explain the factors on which the quality of life depends.

**Subject- Political science (S. C. Pandey 9576265515)**

1. What do you mean by power sharing?
2. Define "Prudential reasons" of power sharing.
3. Write any three features of Prudential reasons of power sharing.
4. Write any three importance of power sharing .
5. Why power sharing is desirable? Discuss.
6. Write the name of different organ of the Government.
7. What do you mean by horizontal distribution of Power?
8. What does the system of "Checks and balances" ensures in power sharing?
9. Write the different level of the government.
10. What do you mean by vertical division of Power? Give example.
11. Write the name of different social groups in Powers are shared.
12. What are different forms of power sharing in In modern democracy? Give an example each of them.
13. Why power sharing is good for democracy? Give reasons.
14. How you can say that Belgium and Sri Lanka both are democratic country, but they follow different system of power sharing."
15. What do you mean by coalition government? Give example.

**Subject- Physics (Vijayant Sinha 7717789015)**

1. (a) Draw a circuit diagram showing two lamps, one cell and a switch connected in series.  
(b) Consider the circuit given below where A,B and C are three identical light bulbs of constant resistance.



- (a) List the bulbs in order of increasing brightness.
- (b) If C burns out, what will be the brightness of A now compared with before?
- (c) If B burns out instead, What will be the brightness of A and C compared with before?
3. How do you think the brightness of two lamps arranged in parallel compares with the brightness of two lamps arranged in series (both arrangements having one cell)?
4. If current flows through two lamps arranged:  
(a) in series (b) in parallel  
and the filament of one lamp breaks, what happens to the other lamp? Explain your answer.

**Subject- Chemistry (C. B. Jha 9430451504)**

1. Which of the statements about the reaction below are incorrect?  
 $2\text{PbO}(s) + \text{C}(s) \rightarrow 2\text{Pb}(s) + \text{CO}_2(g)$ 
  - (a) Lead is getting reduced.
  - (b) Carbon dioxide is getting oxidised.
  - (c) Carbon is getting oxidised.
  - (d) Lead oxide is getting reduced.
    - (i) (a) and (b)
    - (ii) (a) and (c)
    - (iii) (a), (b) and (c)
    - (iv) all
2.  $\text{Fe}_2\text{O}_3 + 2\text{Al} \rightarrow \text{Al}_2\text{O}_3 + 2\text{Fe}$  The above reaction is an example of a
  - (a) combination reaction.
  - (b) double displacement reaction.
  - (c) decomposition reaction.
  - (d) displacement reaction.
3. What happens when dilute hydrochloric acid is added to iron fillings? Tick the correct answer.
  - (a) Hydrogen gas and iron chloride are produced.
  - (b) Chlorine gas and iron hydroxide are produced.
  - (c) No reaction takes place.
  - (d) Iron salt and water are produced.
4. What is a balanced chemical equation? Why should chemical equations be balanced?
5. Translate the following statements into chemical equations and then balance them.
  - (a) Hydrogen gas combines with nitrogen to form ammonia.
  - (b) Hydrogen sulphide gas burns in air to give water and sulphur dioxide.
  - (c) Barium chloride reacts with aluminium sulphate to give aluminium chloride and a precipitate of barium sulphate.
  - (d) Potassium metal reacts with water to give potassium hydroxide and hydrogen gas.
6. Balance the following chemical equations.
  - (a)  $\text{HNO}_3 + \text{Ca}(\text{OH})_2 \rightarrow \text{Ca}(\text{NO}_3)_2 + \text{H}_2\text{O}$
  - (b)  $\text{NaOH} + \text{H}_2\text{SO}_4 \rightarrow \text{Na}_2\text{SO}_4 + \text{H}_2\text{O}$
  - (c)  $\text{NaCl} + \text{AgNO}_3 \rightarrow \text{AgCl} + \text{NaNO}_3$
  - (d)  $\text{BaCl}_2 + \text{H}_2\text{SO}_4 \rightarrow \text{BaSO}_4 + \text{HCl}$
7. Write the balanced chemical equations for the following reactions.
  - (a) Calcium hydroxide + Carbon dioxide  $\rightarrow$  Calcium carbonate + Water
  - (b) Zinc + Silver nitrate  $\rightarrow$  Zinc nitrate + Silver
  - (c) Aluminium + Copper chloride  $\rightarrow$  Aluminium chloride + Copper
  - (d) Barium chloride + Potassium sulphate  $\rightarrow$  Barium sulphate + Potassium chloride
8. Write the balanced chemical equation for the following and identify the type of reaction in each case.
  - (a) Potassium bromide(aq) + Barium iodide(aq)  $\rightarrow$  Potassium iodide(aq) + Barium bromide(s)
  - (b) Zinc carbonate(s)  $\rightarrow$  Zinc oxide(s) + Carbon dioxide(g)
  - (c) Hydrogen(g) + Chlorine(g)  $\rightarrow$  Hydrogen chloride(g)

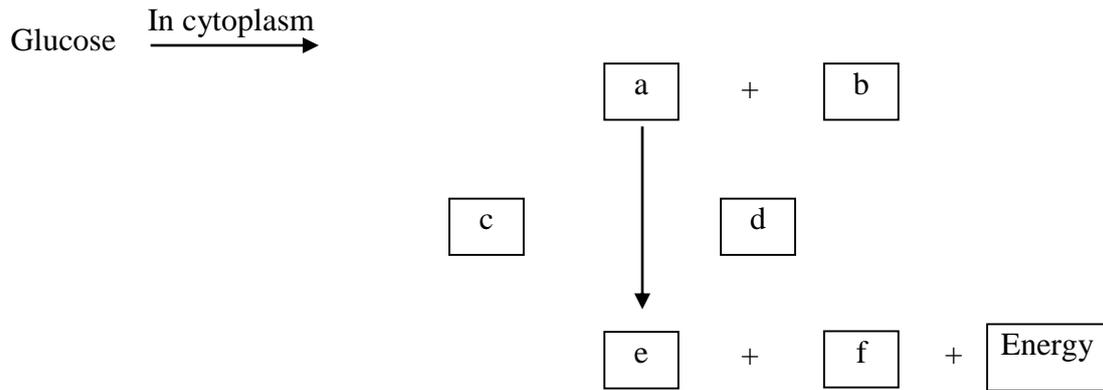
(d) Magnesium(s) + Hydrochloric acid(aq) → Magnesium chloride(aq) + Hydrogen(g)

9. What does one mean by exothermic and endothermic reactions? Give examples
10. Why is respiration considered an exothermic reaction? Explain.
11. Why are decomposition reactions called the opposite of combination reactions? Write equations for these reactions.
12. Write one equation each for decomposition reactions where energy is supplied in the form of heat, light or electricity.
13. What is the difference between displacement and double displacement reactions? Write equations for these reactions.
14. In the refining of silver, the recovery of silver from silver nitrate solution involved displacement by copper metal. Write down the reaction involved.
15. What do you mean by a precipitation reaction? Explain by giving examples.
16. Explain the following in terms of gain or loss of oxygen with two examples each. (a) Oxidation  
(b) Reduction
17. A shiny brown coloured element 'X' on heating in air becomes black in colour. Name the element 'X' and the black coloured compound formed
18. Why does the colour of copper sulphate solution change when an iron nail is dipped in it?
19. Give an example of a double displacement reaction.
20. Identify the substances that are oxidised and the substances that are reduced in the following reactions. (i)  $4\text{Na(s)} + \text{O}_2\text{(g)} \rightarrow 2\text{Na}_2\text{O(s)}$  (ii)  $\text{CuO(s)} + \text{H}_2\text{(g)} \rightarrow \text{Cu(s)} + \text{H}_2\text{O(l)}$

**Subject- Biology (Rahul Jha 9631022032)**

CHAPTER : Life Processes

1. How nutrition takes place in Amoeba?
2. Name the largest gland in human body. Name its secretion and organ where it is stored.
3. How muscle cramps are caused?
4. Stomata of desert plants remain closed during daytime. How do they take-up CO<sub>2</sub> and perform photosynthesis?
5. How is the small intestine designed to absorb digested food?
6. Why is transpiration important for plants?
7. Why do aquatic animals breathe faster than terrestrial animals?
8. What will happen if mucus is not secreted by the gastric glands?
9. Why is small intestine in herbivores longer than in carnivores?
10. How do the guard cells regulate opening and closing of stomatal pores?
11. Give reasons:
  - (i) The two ventricles have thicker muscular walls than the two atria in human heart.
  - (ii) The capillaries have walls which are one cell thick.
12. Why CO<sub>2</sub> is transported in the dissolved form in our blood as compared to oxygen.
13. Why do fishes have two chambered heart and reptiles have three chambered heart?
14. State the role of the following in the process of respiration in humans:
  - (a) Nasal cavity
  - (b) Diaphragm
  - (c) Alveoli
15. Complete the flow chart by filling the blanks in the schematic representation of breakdown of glucose molecule in case of aerobic respiration.



Students are instructed to complete the assignment-2 carefully and submit it till 25 May, 2020 on the Whatsapp no. of your respective subject teachers. It is compulsory to attempt all questions. In case of any doubt, you can call the concerned subject teacher on the provided contact number. The marks obtained will be counted in your Internal Assessment. For any problem related to school app or downloading of assignment please contact :- 9470283176