Holidays HW (Session 2023-24) Class XI Science

SUBJECT: ENGLISH

Q1 Read any one novel/story/play of the following Indian authors and do as directed:

JANE AUSTIN

OR

B. SHAKESPEARE

OR

RUSKIN BOND

- Write a book review and critical appreciation of the novel in 150 to 200 words
- Write a character sketch of any ONE character that you loved in the novel.
- Write 50 difficult words along with their meaning
- Make a beautiful book jacket for the same and keep the sheets of above questions in it

Please note:

The project must be handwritten. Use A-4 size sheets.

O2 POSTER MAKING

Make a poster portraying your thoughts and point of view on the following topics:

- 1- 'THE BLUE GOLD-'WATER'
- 2 'MENTAL WELL BEING'

SUBJECT: PHYSCICS

- 1. Complete the Assignment of Ch-2 uploaded
- 2. Complete the Practical File
- 3. Revise Ch-1 & Ch-2 for Physics Periodic Test-1

SUBJECT: CHEMISTRY

- 1. Revise the chapters covered in the class.
- 2. Do Assignment given.
- 3. Chapter Redox reactions
- 4. Back exercise NCERT Q.1,2,4,10,18,19,20,21,23
- 5. In HW register along with assignment given below

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ASSIGNMENT
                                  Ch - Redox Reactions
                       CLASS- XI
                               CHEMISTR
 A. Very Short Answer type Questions [ one mork each]
 1. The reaction: (12 (g) + 20H (ag) -> (10 (ag) + (1 (ag) + H30(1)
 represents the process of bleaching. Identify and name the species
that bleacher the substances due to its oxidizing action.
 2/ Justify that the following is a redax reaction.
                   Hyp + Fz (g) -> HF(g) + HOF (g)
 3. Identify the oxidant and reductant in the following reaction:
           2 kg [ Fe (CN) 6] (0q) + HyOy (0q) -> 2 kg [ Fe (CN) 6] (0q) + JKOH(a)
4. What is the oxidation number of: (i) Him Cats (i) O in the
5. Define oxidising and reducing ageods.
16. Define oxident and Reductions in terms of oxidation number.
 7. Silve on example of disproportionation reaction.
B 8. Give on example of reaction which is not a redox reaction.
                                       [ Decomposition reaction ].
 9. Suhat is the oxidation number of Mn in k Mnoy.
 10. Calculate the oxidation number of (rin kg/rgo7 and Sin Saga-
        Short Answer type Overtiens: [2 mores each]
      Balance the equation by half reaction method;
        Mnoy (ag) + I (og) -> Mnoy (s) + Iz (s) [ basic medium]
 2. Balance the equation in basic medium by oxidation marker method.
      (1207 (g) + HOO3 (09) -> (105 (09) + 05 (6)
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- 3. Palance the equation in basic medium by half reaction method:

 Py (s) + OH (aq) -> PH3 (g) + H3 Pay (aq).
- 4. Colculate oxidation state of understined element:
- (a) H3540c (b) KALCO4)2. 12H20.
- 5. Balance the equation in acidic medium

 By + Ho O, -> Brog + HoO.
- 6. (i) Bolonce the following in acidic medium:

 Mno4 (aq) + Sos (q) Mnot caqs + HSO, (aq)
 - (ii) (307 (aq) + 503 (q) + (43+ (aq) + 504) (aq).

[by oxidation number method]

- 7. Mnoy undergoes disposportion ation reaction in acidic medium but
- 8. Pb0 and Pb03 react with HCl according to the following:

 JPb0, + 4HCO -> JPbC13 + 2H30

 Why do these compounds differ in their reactivity
- 9. Nitric acid is an oxidising agent and reacts with Pho but it does not react with Pho. Explain why.
- 1. (1) SHORT ANSWER QUESTIONS (3 morks each)
- 1. Write the net ionic reaction showing the oxident of Fe³⁺ions to Fe³⁺ ions by dichromate ions in acidic medium, wherein G₂O₇³⁻ions are reduced to G³⁺ ions [by half seaction method]
- 2. Find oxidation number of:
 (a) Inn in MnO4 (b) 0 in H3O3.
- (ii) Bulance the eq. MnOH + I mnoz + IO3 [bunic medium]

SUBJECT : MATHEMATICS

- 1. Complete the Assignment Of Ch1, 2 & 5
- 2. Prepare the syllabus of Periodic Test-1

SUBJECT: BIOLOGY

ASSIGNMENT

S.NO	QUESTION
1	Write the name and important function of the fluid-filled double
	membranous layer surrounding the lungs.
2	Which is the prime site for the exchange of gases in our body?
3	Why does smoking cigarette cause emphysema?
4	Organize the following in ascending order
	a) Tidal volume
	b) Residual volume
	c) Inspiratory reserve volume
	d) Expiratory capacity
5	Write the organs of respiration in the entities given below:
	a) Flatworm
	b) Frog
	c) Birds
	d) Cockroach
6	Write the various modes of transportation of carbon dioxide in the
	blood.
7	Mention the main parts involved in the initiating a pressure gradient
	between the lungs and the atmosphere during normal respiration.
8	State the differences between the following:
	a) Expiratory and inspiratory reserve volume
	b) Total lung capacity and vital capacity
	c) Occupational respiratory disorder and Emphysema
9	List the following steps in a sequential manner for the completion of
	the respiration process.
	a) Diffusion of oxygen and CO ₂ across the alveolar membrane
	b) Transportation of gases by blood
	c) Utilization of oxygen for catabolic reactions by the cells and hence
	the resultant release of CO ₂
	d) Pulmonary ventilation through which atmospheric air is drawn in
	and carbon dioxide-rich alveolar air is given out
10	e) Diffusion of oxygen and carbon dioxide between tissues and
10	Fill up:
	a) The serum is the plasma without factors.
	b) Phagocytic cells are and monocytes.
	c) Eosinophils are linked with reactions.
	d) In clotting, ions play an important role.

	e) In an ECG, one can determine the heartbeat rate by counting the
	number of
11	Name the coronary artery disease that is caused as a result of
	narrowing of the lumen of arteries.
12	What is ECG?
13	State the differences between the following:
	Lymph and bloodEosinophils and BasophilsBicuspid valve and tricuspid valve
14	a) Which is the site where RBCs are formed?b) Name the part of the heart that initiates and maintains the rhythmic activityc) What is the heart of crocodiles is specific amongst reptilians?
15	Why are thrombocytes necessary for blood coagulation?

*PRACTICE ALL DIAGRAMS COVERED SO FAR *READ NCERT RELIGIOUSLY WORD BY WORD REVISE CH 17, 18 (COVERED SO FAR) THERE WILL BE TEST IMMEDIATELY AFTER VACATION.

SUBJECT: COMPUTER SCIENCE

1. Prepare a presentation with animation effects , images, background and content , as allotted **Roll No. wise :**

Roll no. 1 -15 : Computer System Overview

Roll no. 16 -30 : Python Fundamentals - Tokens

Roll no. 31 - 45: Operators

Roll no. 46 onwards : Data Types

Note: (minimum 15 slides)

- 2. Complete the Assignments of Ch1, Ch6, Ch7
- 3. Do Practice of Programs for Getting Started with Python and Python Fundamentals

SUBJECT- PHYSICAL EDUCATION

- •Use colourful A4 Size Sheets.
- Perform 10 Asanas Daily.
- Paste your own pics of Asanas.
- •Write -Introduction of Asana procedure, 10 Benefits,5 contraindications.