



STEPHENS

INTERNATIONAL PUBLIC SCHOOL



Holidays' Homework

Session – 2023-24

Class : 10th

General Instructions:

- 1. Use assignment sheets to do all the written work.**
- 2. Use a separate file (use A4 sheets) for project and activity work.**
- 3. Make separate file for each subject.**
- 4. Do your work neatly and beautify it.**
- 5. Revise Pre Mid Term Syllabus.**

Subject : English

- Q1. Read chapter-4 (FROM THE DIARY OF ANNE FRANK) and summarize the chapter in your own words. Answer the extract based questions:**

Writing in a diary is a really strange experience for someone like me. Not only because I have never written anything before, but also because it seems to me that later on neither I nor anyone else will be interested in the musing of a thirteen year old school girl. Oh well, it doesn't matter. I feel like writing and I have an even greater need to get all kind of things off my chest. Paper has more patience than people.' I thought of this saying on one of those days when I was feeling a little depressed and was sitting at home with my chin in my hands, bored and listless, wondering whether to stay in or go out.

- Whom does 'I' refer to in the given passage?
- 'Paper has more patience than people'. Why did Anne Frank say that?
- Find a word in the passage that means 'deep thought'.
- Which word in the passage is a synonym of 'lethargic'?

- Q2. Read chapter-5 (FOOTPRINTS WITHOUT FEET) and summarize it in your own words. After summarizing, answer these questions:**

- Griffin was not a true scientist as he misused his scientific discovery. Illustrate this point by giving two incidents from the story.
- What impression do you form of Griffin after reading the lesson, "Footprint, without Feet"?

- Q3. Write a letter in about 120 words to be editor of National News Delhi about the scarcity of water in your locality suggesting ways to improve the position of water supply. You are Kunal/Karuna of Lane No. 4, East Ghaziabad.
- Q4. You are a resident of Shivaji Nagar, Pune. You are concerned about the increasing number of road mishaps in your city. Write a letter to the editor of a local magazine "Jan Chetna" highlighting the problem. Suggest measures regarding the same.
- Q5. Write an article/ a poem or a short story of your choice. The writing should be original, reflecting your imagination, creativity and writing skills.

विषय – हिन्दी

- विज्ञापन लेखन
(क) आयुर्वेदिक औषधि के प्रचार हेतु 50 शब्दों में एक आकर्षक विज्ञापन तैयार कीजिए।
(ख) कोचिंग सेंटर के लिए 50 शब्दों में एक आकर्षक विज्ञापन तैयार कीजिए।
- निम्नलिखित विषयों पर अनुच्छेद लिखें।
(क) शिक्षक – हमारे मार्गदर्शक
(ख) भारतीय संस्कृति
- सूचना लेखन
(क) विद्यालय में कबड्डी टीम में सम्मिलित होने वाले खिलाड़ियों का चयन किया जाना है। प्रधानाचार्य की ओर से सूचना लिखिए।
(ख) रक्तदान शिविर में लोगों को आकर्षित करने के लिए सूचना तैयार कीजिए।
- पत्र लेखन
(क) चिकित्सा अधीक्षक को अस्पताल के प्रबंध पर असंतोष प्रकट करते हुए पत्र लिखिए।
(ख) सड़क परिवहन के प्रबंधक को बसों को दुर्दशा के लिए शिकायती पत्र लिखिए।
- योग्यता विस्तार
निम्नलिखित विषयों में से किसी एक विषय पर श्रवण एवं वाचन (ASL) प्रतियोगिता की तैयारी करें, जिसका समय 2 मिनट से अधिक न हो।
(क) मेरे सपनों का भारत
(ख) शहरी जीवन
(ग) पीएम नरेंद्र मोदी
(घ) शिक्षा का उद्देश्य
(ङ) विद्यार्थी और मोबाइल फोन
- कोई एक स्वयं रचित कहानी अथवा नाटक लिखिए।

Subject : Mathematics

A. Multiple choice questions:-

- If the HCF of 65 and 117 is expressible in the form $65m - 117$, the value of m is
(a) 4 (b) 2 (c) 1 (d) 3
- The product of HCF and LCM of smallest prime number and the smallest composite number is
(a) 2 (b) 4 (c) 6 (d) 8
- For two numbers 18 and 720, the HCF and LCM is
(a) 720 (b) 90 (c) 18 (d) 12960
- If one of the zeroes of the quadratic polynomial $(k - 1)x^2 + kx + 1$ is -3 , then value of k is
(a) $\frac{4}{3}$ (b) $-\frac{4}{3}$ (c) $\frac{2}{3}$ (d) $-\frac{2}{3}$
- If α and β are zeroes of the polynomial $4x^2 + 3x + 7$, then $\frac{1}{\alpha} + \frac{1}{\beta}$ is.
(a) $\frac{7}{3}$ (b) $-\frac{7}{3}$ (c) $\frac{3}{7}$ (d) $-\frac{3}{7}$
- If a pair of linear equations is consistent, then the lines will be
(a) parallel (b) always coincident
(c) Intersecting or coincident (d) always intersecting
- Aruna has only ₹1 and ₹2 coins with her. If the total number of coins that she has is 50 and the amount of money she has is ₹75, then the number of ₹1 and ₹2 coins are respectively
(a) 35 and 15 (b) 35 and 20 (c) 35 and 30 (d) 25 and 25
- If $x = a$, $y = b$ is the solution of $x - y = 2$ and $x + y = 4$, then the values of a and b are
(a) 3 and 5 (b) 5 and 3 (c) 3 and 1 (d) -1 and -3
- Value of k for which the quadratic equation $2x^2 - kx + k = 0$ has equal roots is
(a) 0 only (b) 4 only (c) 8 only (d) 0, 8
- For the quadratic equation $x^2 - 2x^2 + 1 = 0$, the value of $x + \frac{1}{x}$ is
(a) -1 (b) 1 (c) 2 (d) -2

B. Short answer type questions

- If the roots of $x^2 + px + 40 = 0$ are in the ratio 2 : 5, then find the value of p .

- Rohans mother is 26 years older than him. The product of their ages 3 years from now will be 360. What will be their present age? Represent above situation in quadratic equation.
- The sum of two numbers is 9 and the sum of their reciprocals is $\frac{1}{2}$. Find the numbers.
- Prove that $\sqrt{3} + \sqrt{5}$ is an irrational number.
- Two tankers contain 620 litre and 840 litre of diesel respectively. Find the maximum capacity of a container which can measure the diesel of both the tankers in exact number of times.
- Check whether 4^n can end with the digit 0 for any natural number n .
- If p, q are zeroes of $f(x) = 2x^2 - 7x + 3$, find the value of $p^2 + q^2$.

Long answer type questions

- Find the 5th term of an A.P. $\dots, \frac{2p+1}{p}, \frac{2p-1}{p}, \frac{2p-3}{p}, \dots$
- If α and β are zeroes of $x^2 + 7x + 12$ then find the value of $\frac{1}{\alpha} + \frac{1}{\beta} = 2\alpha\beta$.
- A boat goes 24km upstream and 28km downstream in 6 hours. It goes 30 km upstream and 21km downstream in $6\frac{1}{2}$ hrs. Find the speed of boat in still water and also the speed of stream.
- The ratio of incomes of two persons is 9 : 7 and the ratio of their expenditures is 4 : 3. If each manages to save ₹2000 per month, find their monthly incomes.
- Four years ago a father was six times as old as his son. Ten years later, the father will be two and a half times as old as his son. Find their present ages.
- A student taking a test consisting of 10 questions is told that each question after the first question is worth 2 marks more than the preceding questions. If third question is worth 5 marks, what is the maximum score that the student can obtain by attempting 8 questions.

Lab Manual Activities

- Graph of a Quadrate Polynomial.
- To find the conditions for consistency and inconsistency for the system of linear equations in two variables.
- To verify given sequence is arithmetic progression by paper cutting and pasting method.

Subject : Science

PHYSICS

SECTION – A

A. Very short answer type questions.

- Q1. Which part of eye acts as a cable which connects the eye with the brain?
- Q2. A boy uses spectacles of focal length – 60cm. Name the defect of vision he is suffering from. Which lens is used for the correction of this defect?
- Q3. Why is blind spot called so?
- Q4. An object placed 45cm from a lens forms an image on a screen placed 90 cm on the other side of the lens. Find its focal length.
- Q5. Do the incident and emergent ray coincide in the process of refraction through glass slab? Give reason.

B. Short answer type questions.

- Q6. Draw a labelled diagram to show dispersion of a beam of white light.
- Q7. State the role of ciliary muscles in accommodation.
- Q8. When a light ray passes obliquely through the atmosphere in an upward direction, how does its path generally change?

C. Long answer type questions.

- Q9. (a) List the parts of the human eye that control the amount of light entering into it. Explain, how they perform this function.
(b) Write the function of retina in human eye.
- Q10. What is hypermetropia? State two causes with the help of ray diagram to show
(i) eye defect
(ii) correction of hypermetropia
- Q11. (i) Two lenses have power of (a) +2D (b) –4D
What is the nature and focal length of each lens?
(ii) An object is kept at a distance of 100 cm from each the above lenses.
(a) Image distance and
(b) Magnification in each case

SECTION – B

Write down the following practicals in your practical lab manual:-

- Q1. Tracing the path of ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.
- Q2. Tracing the path of a ray of light through a glass prism. (These practical should be done on lab manual only)

CHEMISTRY

SECTION – A

A. Multiple choice questions.

- Q1. Take a small amount of quick lime in a beaker, what changes will you observe?
- (a) Evolution of H₂ gas
(b) Change in physicals state
(c) Change in temperature
(d) Change in colour of solution

- Q2. What will happen if we burn lead nitrate?
 (a) Yellow fumes are formed of NO_3 (b) Yellow fumes are formed of NO_2
 (c) Brown fumes are formed of NO_3 (d) Brown fumes are formed of NO_2
- Q3. What do you observe when lead nitrate is reacted with potassium iodide?
 (a) White Ppt of PbI_2 are formed (b) Yellow Ppt OF PbI_2 are formed
 (c) Brown Ppt of PbI_2 are formed (d) No Ppt are formed
- Q4. What are your observations when H_2 gas is passed over copper oxide?
 (a) Brown copper is obtained (b) Black copper is obtained
 (c) Water is produced by reduction (d) No change
- Q5. Which gas is released when MnO_2 is reacted with HCl ?
 (a) H_2O vapours (b) H_2 gas
 (c) Cl_2 gas (d) No change

B. Short answer type questions:-

- Q6. Why are decomposition reactions called the opposite of combination reaction? Write equations of these reactions?
- Q7. State the law that is followed by balancing a chemical equation and balance this equation.
 $\text{Na} + \text{H}_2\text{O} \longrightarrow \text{NaOH} + \text{H}_2$
- Q8. A compound 'A' is used in the manufacture of cement. When dissolved in water, it evolves a large amount of heat and forms compound 'B'.
 (i) Identify A and B.
 (ii) Write the chemical equation for the reaction of A with water.
 (iii) List two types of reaction in which this reaction may be classified.

C. Long answer type questions:-

- Q9. Differentiate between exothermic and endothermic reaction with two examples.
- Q10. 1 g of copper powder was taken in a china dish and heated. What changes take place on heating? When hydrogen gas is passed over this heated substance a visible change is seen in it. Give the chemical equations of the reaction, the name and colour of the products formed in each case.
- Q11. Differentiate between corrosion and rancidity. Paste pictures of materials of corroded and rancid compounds.

SECTION – B

Write down the following practicals in your practical lab manual:-

1. (a) Finding pH of the following samples by using pH paper.
 (i) Dilute HCl
 (ii) Dilute NaOH solution
 (iii) Dilute Ethanoic acid solution
 (iv) Lemon juice
 (v) Water
 (vi) Dilute hydrogen carbonate solution
- (b) Studying the properties of acids, bases on the basis of their reaction with
 (i) Litmus solution (Blue/Red)
 (ii) Zinc metal
 (iii) Solid sodium carbonate

2. Performing and observing the following reactions and classify them into
- | | |
|---------------------------|----------------------------------|
| (a) Combination reaction | (b) Decomposition reaction |
| (c) Displacement reaction | (d) Double displacement reaction |
- (i) Action of water on quick lime
(ii) Action of heat on ferrous sulphate crystals
(iii) Iron nail kept in copper sulphate solution
(iv) Reaction between sodium sulphate and barium chloride solution
3. Observing the action of Zn, Fe, Cu and Al metals on following salt solutions.
- | | |
|----------------------------|--|
| (i) ZnSO_4 (aq) | (ii) FeSO_4 (aq) |
| (iii) CuSO_4 (aq) | (iv) $\text{Al}_2(\text{SO}_4)_3$ (aq) |
- Arrange Zn, Fe, Cu and Al in decreasing order of their reactivity based on above result.

BIOLOGY

SECTION – A

A. Very short answer type questions.

- Q1. Name the largest artery in human body.
Q2. Which part of the alimentary canal receives bile from the liver?
Q3. Which of them contains less nitrogenous waste, renal vein or renal artery?
Q4. What type of nutrition takes place in fungus?
Q5. Name the blood vessel that carries oxygenated blood to the heart.

B. Short answer type questions.

- Q6. List in tabular form three differences between arteries and veins.
Q7. Why does trachea (wind pipe) have cartilaginous rings?
Q8. Why does the heart have valves?

C. Long answer type questions:-

- Q9. (a) The breathing cycle is rhythmic whereas exchange of gases is a continuous process. Justify the statement.
(b) What happens if conducting tubes of circulatory system develop a leak? How could this be avoided?
- Q10. Describe the function of kidneys, ureters, urinary bladder and urethra.
Q11. In human alimentary canal, name the site of complete digestion of various components of food. Explain the process of digestion.

SECTION – B

Write down the theory of the following practical in your lab manual.

1. Prepare a temporary mount of a leaf peel to show stomata.
2. Studying
(a) Binary fission in amoeba
(b) Budding in yeast with the help of prepared slides.
3. Identification of the different parts of an embryo of a dicot seed. (pea gram or kidney bean)



Subject : Social Science

Q1. Write a detailed report on the following:

- (a) Jallianwalla Bagh Massacre
- (b) The Simon Commission
- (c) Salt Satyagraha

ACTIVITY

Q2. Make a comparative study between facilities in health sector and education sector of Gujarat and J&K.

Q3. PROJECT

Prepare a detailed project report on any one of the following topics.

- (a) Consumer Awareness
- (b) Social issues
- (c) Sustainable development

Subject : Computer

- Make a 'Word document' for inviting your friend on your birthday party which includes style, images etc.
- Make a 'template', for the above same document.
- Using this template send it to your 10 friends with field name as Title, Name, Address, City, State, Pin No. and Contact by using the 'Mail Merge Concept'.

Note:- Take print out of all the pages and compile it in a folder. Design an attractive cover for your file / folder.

