

JKG INTERNATIONAL SCHOOL VIJAY NAGAR GHAZIABAD

HOLIDAY HOME WORK

CLASS -X

English:

1. With the advent of the global work culture of the multinational companies working hours have changed to shifts. This has led to sedentary lifestyle among the working class with deterioration in their health. Based on the idea and on your reading of M.C.B-Unit 1 Health and Medicine, write an article on 'Keeping Good Health for a Promising Career' in your grammar notebook.

2. "Children are like wet clay, whatever falls on them will make an impression". Based on the theme of 'Each one teach one' write a story in 180-200 words in your grammar notebook.

3. The Ministry of Science and Technology has set up many Science Museum /Science cities across the nation which display the wonders of science. Write about your visit to such a place where the wonders of science amazed you. Do it in your grammar notebook.

4. Read the novel Diary Of A Young Girl and write the characters of Anne Frank, Otto Frank and Margot in your literature notebook.

5. Write an article or story for your school magazine in your own words on A4 size sheet.

Hindi:

1. सूरदास के पठित पदों के मूल संदेश पर प्रकाश डालिए।
2. गोपियों के अनुसार राजा का धर्म क्या होना चाहिए?
3. परशुराम के गुरु का ऋण चुकाने के लिए लक्ष्मण द्वारा थैली खोलने का क्या अभिप्राय है?
4. परशुराम ने लक्ष्मण की शिकायत विश्वामित्र से ही क्यों की?
5. राम और विश्वामित्र के व्यवहार पर अपने विचार प्रकट कीजिए।
6. वर्षा के बिना लोगों की अवस्था कैसी हो गई है? उनके लिए कवि बादलों से क्या अपेक्षा करता है।
7. फागुन के प्रभाव से पेड़ों की डालियों का स्वरूप किस-किस तरह का हो गया है?
8. पति की मृत्यु हो जाने पर भगतजी की पुत्रवधू की कैसी दशा हो रही थी? भगत जी की अपनी पुत्रवधू को क्या उपदेश दे रहे थे?
9. संज्ञा से लेखक का क्या आशय है? वातावरण पर संज्ञा का क्या प्रभाव पड़ता था?
10. कोई नकारात्मक मनुष्य चश्मे बदलने की घटना पर कैसी प्रतिक्रिया कर सकता है।
11. हालदार साहब की आँखे भर आने का क्या कारण रहा? इस पर अपने विचार प्रकट कीजिए।
12. कैप्टन कौन था? उसे कौन सी बात आहत करती थी?
13. देश के अच्छे मूर्तिकारों की जानकारी किसे नहीं थी?
14. मोतीलाल जी कौन थे?
15. रस की परिभाषा व उदाहरण याद कीजिए।

Math:

Q.1. Find the HCF of Following

(i) 180, 288, (ii) 288, 360, 384

Q.2. Find the largest number which divides 615 & 693 leaving remainder 6 in each case.

Q.3. Find the HCF of 65 & 117 and find a pair of integral values of m and n such that $HCF = 65m + 117n$.

Q.4 Prove that $5 - 2\sqrt{3}$ is an irrational number

Q.5. Prove that the square of any positive integer is of the form $4m$ or $(4m + 1)$ for some integer m .

Q6. Find the zeros of $\sqrt{3}x^2 + 10x + 7\sqrt{3}$

Q7. If $x - \sqrt{5}$ is a factor of the polynomial $x^3 - 3\sqrt{5}x^2 - 5x + 15\sqrt{5}$. Find all the zeros of the polynomials

Q8. Obtain all the zeros of the polynomial $x^4 - 3x^3 - x^2 + 9x - 6$, If two of its zeros are $\sqrt{3}$ and $-\sqrt{3}$

Q9. If the polynomial $6x^4 + 8x^3 - 5x^2 + ax + b$ is exactly divisible by the polynomial $2x^2 - 5$ then find the value of a and b

Q10. Solve graphically the following pair of equations and shade the region bounded by lines and x -axis

(i) $2x - 3y = 6$, $x + y = 1$

(ii) $3x - 2y - 1 = 0$, $2x - 3y + 6 = 6$

Q11. Solve for x and y

$$2(ax - by) + (a+4b) = 0, \quad 2(bx + ay) + (b-4a) = 0$$

Q12. Find the value of a and b for which the following system of linear equations has infinite number of solutions

$$2x - 3y = 7, \quad (a + b)x - (a + b - 3)y = 4a + b$$

Q13. 4 men and 6 boys can finish a piece of work in 5 days while 3 men and 4 boys can finish it in 7 days. Find the time taken

by one man alone and that by one boy alone.

Q14. Solve for x :- $9x^2 - 9(a + b)x + (2a^2 + 5ab + 2b^2) = 0$

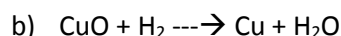
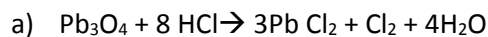
Q15. Solve for x :- $\frac{1}{2a+2b+2x} = \frac{1}{2a} + \frac{1}{2b} + \frac{1}{2x}$

S. Science :

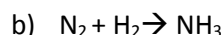
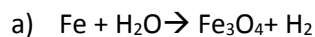
1. Explain the French began building canals and draining lands in the Mekong Delta.
2. Describe the incident that took place in 1926 in Saigon Native girls school.
3. Write a short note on "Go East movement" and Scholars Revolt.
4. What are the different forms of power sharing in modern democracies?
5. Why is power sharing desirable?
6. Difference between Federal government and a unitary government?
7. What do you mean by decentralisation?
8. India is a federal country. Explain by giving examples?
9. Explain the overlapping and cross cutting differences.
10. Describe the various forms that communalism can take place in politics.
11. What is the role of humans in resource development?
12. What is resource planning?
13. What is soil conservation?
14. Describe any three measures of controlling land degradation.
15. What is water scarcity? Mention any four factors responsible for water scarcity.
16. How do Multipurpose projects affect the aquatic life. Explain.
17. What is Commercial Farming. Mentions its major features.
18. Describe any three technological and institutional reforms made in the field of Agriculture in India?
19. What is the ethnic composition of Belgium?
20. Difference between Vertical division of Power and horizontal distribution of power.

Science:

1. Why aluminium sheets do not corrode easily? Why does copper vessel get covered with a green coating in rainy season?
2. What is redox reaction? Identify the substance oxidized and the substance reduced in the following reactions.



3. Balance the given equations-



4. What is an olfactory indicator? Give example.

5. A compound "A" is used in fire extinguishers, as well as an antacid and its small amount is also used in making bakery items. Identify the compound and also explain the reason for above mentioned uses of the compound A.

6. What is meant by water of crystallization? Explain why crystalline salt contains water of crystallization?

7. State the functions of Bowman's capsule and glomerulus.

8. Write the functions of lymph nodes.

9. State the function of epiglottis.

10. Draw and label the parts of human excretory system.

11. A truck uses a convex mirror as view finder whose radius of curvature is 2 m. A maruti car is coming behind the truck at a distance of 10 m. What will be the position of the image of the car and size of the image of the car when observed by the driver of the truck through the convex mirror?

12. Refractive index of water with respect to air is 1.33. What is the value of refractive index of air with respect to water?

13. Draw ray diagram for the image formation of both convex and concave mirror.

14. Write the functions of

a) Cornea b) Iris c) Eye lens d) Retina e) Ciliary muscles.

15. A person is unable to see distinctly the words printed on a newspaper. Name the defect of vision he is suffering from. Draw the ray diagram to illustrate this defect. List its two possible causes. Draw a ray diagram to show how this defect may be corrected using a lens of appropriate focal length.

16. What is dispersion of white light? State its cause. Draw a ray diagram to show the dispersion of white light by a glass prism.

17. Why does the sun appear reddish at the sunrise or sunset?

18. A person cannot see object beyond 80cm from his eyes while a person with normal eyesight can see object easily placed upto infinity from the eyes . Find the nature , the focal length and the power of the correcting lens.

19. Why is aluminum oxide considered an amphoteric oxide.?

20. Why are food cans tin plated instead of zinc plated though zinc is cheaper than tin?

21. With the help of labelled diagram, explain the process of electrolytic refining of copper.

22. Give the steps involved in the extraction of metals of low and medium reactivity from their respective sulphide ores.

23. Why does absorption of digested food occur mainly in the small intestine?

24. Why is blood circulation in human heart is called double circulation?

25. Define the following terms in the context of spherical mirrors

- a) Pole
- b) Centre of curvature
- c) Radius of curvature
- d) Principal axis.

FIT:

I Prepare **lesson 1- Internet Basics and lesson 2- Services on the Internet** thoroughly for Assessment I scheduled for the month of July .

II Attempt the following questions in A4 size sheets with the name class and section written

Q1. Explain the following:

- a) Instant Relay Chat
- b) Instant Messaging

Q2. What are newsgroups and how do they work?

Q3. What are blogs explain with examples?

Q4. What is Microblogging name a popular microblogging site and also write how is it different from a blog?

Q5. While writing a URL which things should be kept in mind , write it in points.

III Find detailed information about the history of internet and present it in a creative manner.

- Also learn the answers of the above questions.