

ATREYEE DAV PUBLIC SCHOOL

MONGALPUR, BALURGHAT, W. B.

Summer assignments (2019 – 2020)

CLASS – X (A & B)

SUBJECT - ENGLISH

1. Write long meaningful sentences with each of the following. State what the following are.
 - a. Gale
 - b. Hurricane
 - c. tornado
 - d. Whirlwind
 - e. cyclone
2. Write a free article on ‘TRUST ON GOD’ (120 words)
3. Page number 13. Write a response letter to Jaya as if you are Arti
4. Use the following metaphors by showing a columnar presentation. (Use the example set out in the exercise part)

a) mountain	b) lake	c) silence	d) student	e) lamplight	f) moon
g) trees	h) joy	i) fear	j) trust		

CLASS – X (A & B)

SUBJECT - BENGALI

1. সপ্রসঙ্গ ব্যাখ্যা কর
ক) “ রঞ্জের মূল্য জহরীর কাছে”
খ) “সহজ করে বাঁচা কি আর খাঁচাতে সম্ভব”
2. শিলাদিত্যের পূর্বনাম কী ছিল ? শিলাদিত্য নামহল কিভাবে?
3. সন্ধি বিশ্লেষণ কর
পরিচ্ছেদ, দিগন্ত, পরিষ্কার, সুবন্ত, মৃগয়।
4. সন্ধিবদ্ধ কর
মুখ+ছবি, বাক+ঐশ, চলৎ+শক্তি, উৎ+লাস, সম+বাদ

CLASS – X (A & B)

SUBJECT - HINDI

- प्रश्न 1 सूरदास के पद को याद करके लिखिए।
- प्रश्न 2 'राम-लक्ष्मण-परशुराम संवाद' का सारांश लिखिए।
- प्रश्न 3 सेनानी न होते हुए भी चश्मेवाले को लोग कैप्टन क्यों कहते थे?
- प्रश्न 4 'माता का आँचल' पाठ का सारांश लिखिए।

1. Show that there is no positive integer n for which $(\sqrt{n-1} + \sqrt{n+1})$ is rational.
2. Let a, b, c, k be rational numbers such that k is not a perfect cube. If $a + bk^{1/3} + ck^{2/3} = 0$, then prove that $a = b = c = 0$.
3. Find the largest positive integer that will divide 398,436 and 542 leaving remainders 7, 11 and 15 respectively.
4. If α, β, γ be zeros of polynomial $(6x^3 + 3x^2 - 5x + 1)$, then find the value of $(\alpha^{-1} + \beta^{-1} + \gamma^{-1})$.
5. If the polynomial $f(x) = x^4 - 6x^3 + 16x^2 - 25x + 10$ is divided by another polynomial $x^2 - 2x + k$, the remainder comes out to be $(x + a)$. Find k and a .
6. A boat covers 25 km upstream and 44 km downstream in 9 hours. Also it covers 15 km upstream and 22 km downstream in 5 hours. Find the speed of the boat in still water and that of the stream.
7. Draw the graph of $2x + y = 6$ and $2x - y + 2 = 0$. Shade the region bounded by these lines and x -axis. Find the area of the shaded region.
8. The sum of a two digit number and the number formed by interchanging its digits is 110. If 10 is subtracted from the first number, the new number is 4 more than 5 times the sum of digits in the the first number. Find the first number.
9. Jamila sold a table and a chair for Rs. 1050, thereby making a profit of 10% on the table and 25% on the chair. If she had taken a profit of 25% on the table and 10% on the chair she would have got Rs. 1065. Find cost price of each.
10. Given that $\sqrt{2}$ is a zero of the cubic polynomial $(x) = 6x^3 + \sqrt{2}x^2 - 10x - 4\sqrt{2}$, find its other zeros.
11. If the remainder on division of $(x^3 - kx^2 + 13x - 21)$ by $(2x - 1)$ is (-21) , find the quotient and the value of k . Hence, find the zeros of the cubic polynomial $(x^3 - kx^2 + 13x)$.
12. Show that one and only one out of $n, (n+2), (n+4)$ is divisible by 3, where n is any positive integer.
13. Solve the following pairs of equations:-
 - (i) $\frac{x}{a} + \frac{y}{b} = a + b, \frac{x}{a^2} + \frac{y}{b^2} = 2$; $a, b \neq 0$
 - (ii) $\frac{2}{x} + \frac{3}{y} = \frac{9}{xy}, \frac{4}{x} + \frac{9}{y} = \frac{21}{xy}$; $x \neq 0, y \neq 0$

PROJECT:-

14. Find the HCF of two numbers experimentally based on Euclid's Division Lemma.

1. An object starts approaching towards the pole of concave mirror and convex mirror from infinity. Draw all possible ray diagrams to show the formation of images. (6+6 diagrams)
2. An object starts approaching towards the optical centre of concave lens and convex lens from infinity. Draw all possible ray diagrams to show the formation of images. (6+6 diagrams)

CLASS – X (A & B)

SUBJECT - CHEMISTRY

(Chapter 1) Chemical Reactions & equations.

Exercise questions from 1 to 10...

CLASS – X (A & B)

SUBJECT - BIOLOGY

Write a note on photosynthesis (light phase and dark phase)

CLASS – X (A & B)

SUBJECT – INFORMATION TECHNOLOGY

1. What are the types of Networks? Explain

2. Describe different switching techniques.

3. Describe different network devices.

CLASS – X (A & B)

SUBJECT - GEOGRAPHY

1. Make a report on “agenda – 21”

2. First international earth summit held in Rio – de – Jenerio, Brazil.

3. Mission to combat with the all environmental problems and issues.

CLASS – X (A & B)

SUBJECT - HISTORY

Project work - Giuseppe Mazzini

CLASS – X (A & B)

SUBJECT - ECONIMOCs

Chapter: Development

Short answer questions.

1. What is the most common method of measuring the economic development of a country?

a) Equal treatment b) Freedom c) Security d) Income

2. Which area of the world has the largest crude oil reserves?

a) U.S.A. b) Russia c) The Middle East d) China

3. What are the criteria used by the UNDP for measuring development?

a) Per Capita Income c) Health
b) Education d) All the above

4. What was India’s Per Capita Income in 2004 as per world development report 2006?

5. What was IMR of Punjab in 2003?

6. Which of the following cannot be bought with money?

a) A Chair c) Pollution free environment
b) Food d) Clothing

7. For how long would the crude oil reserves of the world last?

8. Which of the following neighboring countries has better performance in terms of human development than India?

a) Bangladesh b) Nepal c) Sri Lanka d) Pakistan

9. Average income is also called _____.

10. Literacy rate measures the proportion of literate population in which age group?
11. Why do different people have different notions of development?
12. Why do we use averages? What are the limitations to their use?
13. What is National Income?
14. What is Per Capita Income?
15. What is sustainable development? Give its importance.

Long answer questions

16. Define IMR, literacy rate, net attendance ratio, life expectancy at birth and gross enrolment ratio.
17. List some common goals that are desired generally by all types of people.
18. Name and explain the two main basis that are used to compare development levels of different places.
19. Explain the classification of counties as per World Development Report 2006.
20. Explain Human Development Index.
21. Compare UNDP's and World Bank's criterion for measuring development.
22. What are the limitations of using per capita income as a development indicator?
23. Kerala has lower per capital income than Punjab but a better human development ranking. Explain.
24. Explain which all public facilities are important for human development.
25. Write a short note on problem of ground water in India?
26. What is Development?