



GEETA DEVI DAV PUBLIC SCHOOL

BHANDARKOLA, SATAR ROAD, DEOGHAR

DIWALI & CHHAT PUJA HOLIDAY HOME WORK-(2025-26)

Class: -X

ENGLISH

ASSIGNMENT

Write your aim in life and probable hurdles on its path, taking ideas from The Two Stories About Flying . [The First Flight & Black Aeroplane] (word limit 500 to 600)

ART INTEGRATED PROJECT

- **THEME**
Freedom & Human Rights
- **RELATED LESSON**
Nelson Mandela : Long walk to Freedom”
- **ART INTEGRATION IDEAS**
Make a poster collage or painting depicting struggle for freedom in both South Africa and the state link’s history.
- **STATE LINK [JHARKHAND]**
Compare Mandela’s ideas with those of Local tribal heroes.

HINDI

निम्नलिखित प्रश्नों के उत्तर एक शब्द या एक वाक्य में लिखिए।

- 1-उद्धव के मित्र का क्या नाम था?
- 2-हारिल के पैर में क्या दबा होता है?
- 3-गोपियों को योग का संदेश कैसा प्रतीत होता है?
- 4-राम -लक्ष्मण -परशुराम संवाद के आधार पर बताइए कि राम और लक्ष्मण के अभिभावक के रूप में उनके साथ कौन थे?
- 5-'आत्मकथ्य' कविता के कवि का नाम लिखिए?
- 6-'उत्साह' कविता के आधार पर बताइए कि बादल किसका प्रतीक है?
- 7-संदली मिट्टी का शाब्दिक अर्थ क्या है?

- 8-फागुन की सुंदरता का वर्णन किस कविता में किया गया है?
- 9-'संगतकार' कविता के आधार पर बताइए कि चट्टान जैसी आवाज़ किसकी है?
- 10-'संगतकार'कविता के आधार पर बताइए कि कमज़ोर और थरथराती हुई आवाज़ किसकी है?
- 11-'नेताजी का चश्मा'पाठ के आधार पर बताइए कि नेता जी की मूर्ति किस पत्थर से बनी थी?
- 12- नेताजी की मूर्ति पर किस घास से बना चश्मा लगा हुआ था?
- 13- बालगोबिन भगत ने किन-किन सामाजिक कुरीतियों का विरोध किया था?
- 14-बालगोबिन भगत किन्हें अपना सब कुछ मानते थे?
- 15-लखनऊ स्टेशन पर मिलने वाले खीरे का नाम लिखिए।
- 16-'एक कहानी यह भी'पाठ के आधार पर बताइए कि लेखिका से दो साल बड़ी बहन का नाम क्या था?
- 17-'एक कहानी यह भी' पाठ के आधार पर बताइए कि लेखिका की हिंदी की शिक्षिका का क्या नाम था?
- 18-'नौबतखाने में इबादत' पाठ के आधार पर बताइए कि बालक अमीरुद्दीन के बाल मन पर संगीत की वर्णमाला का पहला वर्ण किन्होंने उकेरा था?
- 19-बिस्मिल्लाह खाँ साहब का जन्म कहाँ हुआ था?
- 20-शास्त्रों में काशी को किस नाम से जाना जाता है?
- 21-काशी में ----- भी मंगल माना गया है।
- 22-पंचगंगा घाट पर किनका मंदिर स्थित है?
- 23-गुरुत्वाकर्षण की खोज किसने की है?
- 24-'संस्कृति'पाठ के आधार पर बताइए कि किन-किन लोगों ने लोक कल्याण की भावना से कार्य किया?
- 25-'संस्कृति' पाठ के लेखक का नाम लिखिए?

हिन्दी परियोजना कार्य

प्रश्न -झारखंड और राजस्थान का तुलनात्मक अध्ययन निम्न बिन्दुओं के आधार पर कीजिए।

- 1-वेश-भूषा
 - 2- पर्व-त्योहार
 - 3-खान पान
 - 4-जलवायु
 - 5-कला संस्कृति (लोकगीत, नृत्य कला, चित्रकला, शिल्प कला और कशीदाकारी आदि।)
 - 6-भौगोलिक स्थिति
 - 7- ऐतिहासिक महत्व
 - 8-संस्कृति
 - 9-साहित्य
- सभी बच्चे फाइल में बनाएँगे।

विषय – संस्कृतम्

- 1.तत्पुरुष-नञ्-उपपद-द्वन्द्व-समासानां पञ्चविंशतिः उदाहरणानि पाठ्यपुस्तकात् चित्वा तेषां विग्रहं च कृत्वा उत्तरपुस्तिकायां लिखत।
- 2.तव्यत्-अनीयर्-मनुप्-ठक्-त्व-तल्-टाप्-डीप्-प्रत्ययानां पञ्चविंशतिः उदाहरणानि पाठ्यपुस्तकात् चित्वा तेषां प्रकृति-प्रत्ययौ विभज्य संयोज्य च उत्तरपुस्तिकायां लिखत।
- 3.अरुणाचलप्रदेशस्य सांस्कृतिक-भौगोलिक-वेशभूषा-अशन-पर्व-परम्परादीनां सम्पूर्ण परिचयं प्रस्तुति कुर्वन्तु।(स्टिक फाइले)

MATHEAMTICS

A).These assignments must be done in class work Note book along with questions and explanation.

A).Tick the correct option, (show explanation)

1.	If $a = 2^2 \times 3^x$, $b = 2^2 \times 3 \times 5$, $c = 2^2 \times 3 \times 7$ and LCM $(a, b, c) = 3780$, then x is equal to (A) 1 (B) 2 (C) 3 (D) 0	
2.	The shortest distance (in units) of the point (2,3) from y-axis is (A) 2 (B) 3 (C) 5 (D) 1	
3.	If the lines given by $3x + 2ky = 2$ and $2x + 5y + 1 = 0$ are not parallel, then k has to be (A) $\frac{15}{4}$ (B) $\neq \frac{15}{4}$ (C) any rational number (D) any rational number having 4 as denominator	
4.	A quadrilateral ABCD is drawn to circumscribe a circle. If $BC = 7\text{cm}$, $CD = 4\text{cm}$ and $AD = 3\text{cm}$, then the length of AB is (A) 3cm (B) 4cm (C) 6cm (D) 7cm	
5.	If $\sec\theta + \tan\theta = x$, then $\sec\theta - \tan\theta$ will be (A) x (B) x^2 (C) $\frac{2}{x}$ (D) $\frac{1}{x}$	

6.	Which one of the following is not a quadratic equation? (A) $(x+2)^2 = 2(x+3)$ (B) $x^2 + 3x = (-1)(1-3x)^2$ (C) $x^3 - x^2 + 2x + 1 = (x+1)^3$ (D) $(x+2)(x+1) = x^2 + 2x + 3$	
7.	Given below is the picture of the Olympic rings made by taking five congruent circles of radius 1cm each, intersecting in such a way that the chord formed by joining the point of intersection of two circles is also of length 1cm. Total area of all the dotted regions (assuming the thickness of the rings to be negligible) is  (A) $4\left[\frac{\pi}{12} - \frac{\sqrt{3}}{4}\right] \text{ cm}^2$ (B) $\left[\frac{\pi}{6} - \frac{\sqrt{3}}{4}\right] \text{ cm}^2$ (C) $4\left[\frac{\pi}{6} - \frac{\sqrt{3}}{4}\right] \text{ cm}_2$ (D) $8\left[\frac{\pi}{6} - \frac{\sqrt{3}}{4}\right] \text{ cm}_2$ For Visually Impaired candidates The area of the circle that can be inscribed in a square of 6 cm is (A) $36\pi \text{ cm}^2$ (B) $18\pi \text{ cm}^2$ (C) $12\pi \text{ cm}^2$ (D) $9\pi \text{ cm}^2$	
8.	A pair of dice is tossed. The probability of not getting the sum eight is (A) $\frac{5}{36}$ (B) $\frac{31}{36}$ (C) $\frac{5}{18}$ (D) $\frac{5}{9}$	
9.	If $2\sin 5x = \sqrt{3}$, $0^\circ \leq x \leq 90^\circ$, then x is equal to (A) 10° (B) 12° (C) 20° (D) 50°	
10.	The sum of two numbers is 1215 and their HCF is 81, then the possible pairs of such numbers are (A) 2 (B) 3 (C) 4 (D) 5	

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11.	If the area of the base of a right circular cone is 51cm^2 and it's volume is 85cm^3 , then the height of the cone is given as (A) $\frac{5}{6}\text{cm}$ (B) $\frac{5}{3}\text{cm}$ (C) $\frac{5}{2}\text{cm}$ (D) 5cm		
12.	If zeroes of the quadratic polynomial $ax^2 + bx + c$ ($a, c \neq 0$) are equal, then (A) c and b must have opposite signs (B) c and a must have opposite signs (C) c and b must have same signs (D) c and a must have same signs		
13.	The area (in cm^2) of a sector of a circle of radius 21cm cut off by an arc of length 22cm is (A) 441 (B) 321 (C) 231 (D) 221		
14.	If $\triangle ABC \sim \triangle DEF$, $AB=6\text{cm}$, $DE=9\text{cm}$, $EF=6\text{cm}$ and $FD=12\text{cm}$, then the perimeter of $\triangle ABC$ is (A) 28cm (B) 28.5cm (C) 18cm (D) 23cm		
15.	If the probability of the letter chosen at random from the letters of the word "Mathematics" to be a vowel is $\frac{2}{2x+1}$, then x is equal to (A) $\frac{4}{11}$ (B) $\frac{9}{4}$ (C) $\frac{11}{4}$ (D) $\frac{4}{9}$		
16.	The points $A(9,0)$, $B(9, -6)$, $C(-9,0)$ and $D(-9,6)$ are the vertices of a (A) Square (B) Rectangle (C) Parallelogram (D) Trapezium		
17.	The median of a set of 9 distinct observation is 20.5 . If each of the observations of a set is increased by 2 , then the median of a new set is increased by 2 (A) is decreased by 2 (B) is two times the original number (C) Remains same as that of original observations		
18.	The length of a tangent drawn to a circle of radius 9cm from a point at a distance of 41cm from the centre of the circle is (A) 40cm (B) 9cm (C) 41cm (D) 50cm		

	DIRECTIONS: In the question number 19 and 20, a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct option: Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A) (A) Both assertion (A) and reason (R) are true and reason (R) is not the explanation of assertion (A) (B) Assertion (A) is true but reason (R) is false. (D) Assertion (A) is false but reason (R) is true.	
19.	Assertion (A): The number 5^n cannot end with the digit 0, where n is a natural number Reason (R): A number ends with 0, if its prime factorization contains both 2 and 5	
20.	Assertion (A): If $\cos A + \cos^2 A = 1$, then $\sin^2 A + \sin^4 A = 1$ Reason (R): $\sin^2 A + \cos^2 A = 1$	

• Activities

B. These activities must be done in Mathematics lab. Manual Note book.

- 1) To draw the graph of a quadratic Polynomial and observe:
 - (i) The shape of the curve when the Coefficient of x^2 is positive.
 - (ii) The shape of the curve when the Coefficient of x^2 is negative.
 - (iii) Its number of zeroes.
- 2) To establish a formula for the sum of First n terms of an Arithmetic progression
- 3) To verify Basic Proportionality Theorem (Thales theorem).
- 4) To find the height of a building using a Clinometer.
- 5) To determine experimental probability of 1, 2, 3, 4, 5 or 6 by throwing a die 500 times and compare them with their theoretical probabilities.

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SUBJECT:- PHYSICS

MULTIPLE CHOICE QUESTIONS

1. Which of the following correctly defines 1 volt?
A. 1 joule of charge passing per coulomb
B. 1 joule of work done to move 1 coulomb of charge
C. 1 coulomb of charge per joule
D. 1 ampere per second.
2. In a conductor, the current is directly proportional to:
A. Resistance B. Potential difference C. Temperature D. Charge.
3. Resistivity of a material depends on:
A. Length B. Area C. Material and temperature D. Both A and B.
4. The formula for resistivity is:
A. $\rho = RI/A$ B. $\rho = RA/I$ C. $\rho = I/RA$ D. $\rho = R/A$
5. The slope of V-I graph gives:
A. Resistance B. Current C. Potential difference D. Power
6. A thick wire has ____ resistance than a thin wire of same material and length.
A. More B. Less C. Equal D. Infinite
7. In an electric circuit, the electrons move from:
A. Positive to negative B. Negative to positive C. High potential to low potential
D. Neutral to positive.
8. Which quantity is measured using a voltmeter?
A. Current B. Potential difference C. Resistance D. Power.
9. 1 Coulomb of charge contains approximately:
A. 6.25×10^{18} electrons B. 6.25×10^{19} electrons
C. 6.25×10^{17} electrons D. 6.25×10^{16} electrons.
10. The resistivity of a conductor is $2 \times 10^{-8} \Omega \cdot m$. It represents:
A. The material property B. The circuit resistance
C. The length of wire D. The area of wire.

ASSERTION AND REASON

- A) Assertion is correct, reason is correct, reason is correct explanation for assertion.
- B) Assertion is correct, reason is correct, reason is not correct explanation for assertion.
- C) Assertion is correct reason is incorrect.
- D) Assertion is in correct, reason is correct.

11. Assertion: According to Ohm's law, the current through a conductor is directly proportional to the potential difference across its ends, if temperature remains constant.

Reason: Resistance of a conductor depends on temperature, length, and area of cross-section.

12. Assertion: Resistivity of a material changes with change in its length and area.

Reason: Resistivity depends only on the nature of the material and temperature.

13. Assertion: The slope of V-I graph for a conductor represents its resistance.

Reason: According to Ohm's law, $V = IR$.

14. Assertion: Resistivity of an alloy like nichrome is generally higher than that of pure metals.

Reason: Alloys have more impurities which increase electron collisions.

15. Assertion: In metals, electric current is due to the flow of free electrons.

Reason: Protons in a metal are free to move and carry current.

LONG ANSWER TYPE QUESTION

16. State and explain Ohm's Law. Describe an experiment to verify it. What are the limitations of Ohm's law?

17. What factors affect the resistance of a conductor? Give relationship between resistance and these factors.

18. What is meant by resistance and resistivity of a material? How are they related to each other? Explain how the resistance of a conductor is affected by temperature.

SUBJECT - CHEMISTRY

WRITING WORK (IN H.W. NOTEBOOK)

(1) Write two examples of each Decomposition reaction, Combination reaction, Displacement reaction, Double Displacement and Redox reaction.

(2) Write method of preparation, properties and uses of each compounds Sodium Chloride, Caustic Soda, Washing Soda, Baking Soda and POP.

(3) Write methods for extraction of highly reactive, moderate reactive and less reactive metal by giving two examples of each.

PROJECT WORK

(1) Record and explain all activities from the NCERT textbook's chapter on chemical reactions, using diagrams to illustrate experimental setups. (IN PRACTICAL NOTEBOOK)

ENRICHMENT ACTIVITY

Make a working model of electrolysis of water.

SUBJECT- BIOLOGY.

(A) .Choose the correct ☒ answer :-

(1.)The number of chromosomes in the zygote of a human is-

- a) 23
- b) 44
- c) 46
- d) 92

(2) Which among the following is not the function of the testes at puberty?

- (i) Formation of germ cells
 - (ii) Secretion of testosterone
 - (iii) Development of placenta
 - (iv) Secretion of estrogen
- a) (i) and (ii)
 - b) (ii) and (iii)
 - c) (iii) and (iv)
 - d) (i) and (iv)

(3) Which of the following diseases is transmitted sexually?

- a) Kala Azar
- b) Jaundice
- c) Cholera
- d) Syphilis

(4) IUCD is for

- a) Vegetative propagation
- b) Contraception
- c) Increasing fertility
- d) Avoiding miscarriage

5. The male reproductive parts of a flower, the stamens, are collectively known as

- e) Androecium
- f) Filament
- g) Anther
- h) Gynoecium

6. Which of the following is an asexual mode of reproduction?

- a) Fertilization
- b) Pollination
- c) Budding in yeast
- d) Zygote formation

7. The process of transfer of pollen grains from the anther to the stigma of a flower is known as:

- a) Fertilization
- b) Pollination
- c) Germination
- d) Seed dispersal

8. Which part of the flower forms the fruit?

- a) Ovary
- b) Ovule
- c) Stigma
- d) Petal

9. A common feature of reproduction in Amoeba, Spirogyra, and yeast is that:

- a) they reproduce asexually
- b) they are all multicellular
- c) they reproduce only sexually
- d) they reproduce only by fusion of gametes

10. Which contraceptive method is a surgical procedure that involves cutting and tying the fallopian tubes in females?

- a) Copper-T b) Vasectomy c) Tubectomy d) Diaphragm

11. The fusion of male and female gametes is called:

- a) Pollination b) Fertilization c) Vegetative propagation d) Budding

12. Which of the following is an IUCD?

- a) Vasectomy b) Condom c) Tubectomy d) Copper-T

13. Which of the following hormones is secreted by the testes?

- a) Estrogen b) Progesterone c) Testosterone d) Oxytocin

14. Why is DNA copying an essential part of the process of reproduction?

- a) It ensures that offspring are identical to their parents
b) It produces variations, which are useful for the survival of species over time
c) It reduces the number of chromosomes in the gametes
d) It allows for the inheritance of acquired characteristics

15. The process where an organism breaks into a number of parts and each part develops into an individual is called:

- a) Binary fission b) Fragmentation c) Budding d) Regeneration

Assertion and reason

1. ASSERTION: Gonorrhoea is a sexually transmitted disease.

REASON: It is caused by virus.

2. ASSERTION: Ovary releases one egg every month.

REASON: The lining of uterus is always thick and spongy.

3. ASSERTION: Plants raised by vegetative propagation can bear flower and seed Earlier than those produced from seeds.

REASON: Plants which have lost the capacity to bear viable seeds, can propagate Through vegetative propagation.

4. ASSERTION: In male reproductive system, transport of sperm takes place in a fluid Which also provides nutrition.

REASON: The secretions of prostate glands and seminal vesicles constitute the Semen.

5. ASSERTION: Amoeba reproduces by binary fission.

REASON: All unicellular organisms reproduce by asexual method

Project:-

1. Draw a well labelled diagram of L. S of flower.

2. Draw a well labelled diagram of male and female reproductive system.

Geography — Mineral and Energy Resources

Objective Questions

- Minerals are _____.
a) Renewable resources b) Non-renewable resources c) Flow resources d) Infinite resources
- The process of extracting minerals from the earth is called _____.
a) Mining b) Quarrying c) Drilling d) Smelting
- Which of the following is a ferrous mineral?
a) Mica b) Iron ore c) Limestone d) Bauxite
- Bauxite is the ore of which metal?
a) Aluminium b) Iron c) Copper d) Zinc
- Which fossil fuel is mainly used in thermal power plants?
a) Coal b) Natural gas c) Petroleum d) Uranium
- Which of these is a non-renewable source of energy?
a) Solar energy b) Wind energy c) Coal d) Biomass
- Hydro-electric power is generated using _____.
a) Coal b) Oil c) Water d) Sunlight
- Oil is mostly found in which Indian states?
a) Gujarat and Assam b) Bihar and Odisha c) Kerala and Punjab d) Rajasthan and Himachal Pradesh
- India is the largest producer of which mineral?
a) Iron ore b) Coal c) Mica d) Bauxite
- Which of the following is a metallic mineral?
a) Limestone b) Mica c) Gypsum d) Phosphate

1. Locate and label the following coal mines on the given map:

- Raniganj
- Bokaro
- Talcher
- Korba
- Digboi
- Mumbai High
- Kalol
- Ankaleshwar

HISTORY CIVICS.

(A) Answer the following questions.

- Name the first edition of Indian religious text published in vernacular.
- Mention any one characteristics feature of an offset press.
- What was vernacular Press Act ?
- What were ballads ?
- Match the following
 - Chap book.
 - Gutenberg
 - Manuscript
 - earlier name of Tokyo
 - first printed book published in Europe
 - pocket size cheap book

d Edo.
e.Bible.

iv Hand written original text
v.printing press

6. 'Amar Jivan' is the autobiography of _____.
7. What is anti defection law?
- 8 Write one merits and demerits of multi party system.
9. Define Partisan.
10. Write two factors on which party system of a country depend upon.

Project

Write the name of five important political parties of India with their symbol, leaders, ideology and prominent leading places in 1/4th size chart paper in a decorative way.

Economics

1. Which of the following is not an advantage of self-help group?
(a) Grant of timely loans (b) Reasonable interests
(c) A platform to discuss various issues (d) Does not help women to become self-reliant.
2. Identify the formal source of credit:
(a) Cooperative societies (b) Moneylenders (c) Traders (d) Landlords
3. Which of the following is not true regarding the inconvenience of Barter Exchange?
(a) Lack of double coincidence of want (b) Absence of divisibility
(c) Difficulty in storing wealth (d) Availability of money as a medium of exchange.
- 4 Which one of the following is not a modern form of money?
(a) Demand Deposits (b) Paper currency (c) Coins (d) Precious metals
5. Formal Sources of credit include:
(a) money lenders (b) co-operatives (c) Employers (d) Finance companies
6. Which one of the following is NOT an informal source of loans for poor rural household in India?
(a) Commercial Banks (b) Moneylenders (c) Traders (d) Landlords
7. In a SHG most of the decisions regarding loan activities are taken by
(a) Banks (b) Member (c) Non-government organizations (d) Cooperatives
8. Formal Sources of credit include :
(a) money lenders (b) co-operatives (c) Employers (d) Finance companies
9. Banks do not give loans:
(a) to small farmers (b) to marginal farmers
(c) to industries (d) without proper collateral and documents
10. Which one of the following agencies issues currency notes on behalf of the government of India?
(a) Ministry of Finance (b) Reserve Bank of India
(c) State Bank of India (d) World Bank

ARTIFICIAL INTELLIGENCE (AI)

Answer the following questions-

Q1) Create a blog on <https://www.blogger.com> on the topic — How Artificial Intelligence will play a crucial role in the **2029 Lok Sabha Elections?**

Program File- Practical Questions

- 1) Write a program to input a string and display the count of vowels and consonants in the string.
- 2) Write a program to input a string and display the string in the reverse order.
- 3) Write a python code to input radius and calculate the area and circumference of a circle.
- 4) Write a python code to find the average of three numbers.
- 5) Write a python code to print the highest of three numbers entered.
- 6) Write a python code to print the even numbers between 21-50.
- 7) Write a python code to input age and check whether eligible for driving or not.
- 8) Write a program to input two numbers and display the LCM of two numbers.

*****XXXXX*****