



DAY PUBLIC SCHOOL, CANTT. AREA, GAYA BIHAR
SUMMER VACATION HOME WORK

(SESSION-2022-2023)

CLASS X

ENGLISH

1. Write a drama script on the topic 'A Triumph of Surgery' written by James Herriot.
(Use a new/unused thin notebook for writing the script. Use one page for each sub-heads like Title Page, Writer's Detail (in brief), Acknowledgement, Theme and Characterisation in the beginning of the script and Glossary at the end of the script. (May be used for Internal Assessment))
2. Remember the dialogues for enactment/dramatization of the script in the class/school for internal assessment (project) evaluation.

HINDI (हिंदी)

1. क्या साधु की पहचान पहनावे के आधार पर की जानी चाहिए ? "बालगोविन भगत" पाठ के आधार पर इस विषय पर प्रकाश डालें। (लिखें)
2. 'नेताजी का चश्मा' पाठ के आधार पर कैप्टन के चरित्र पर प्रकाश डालिए।

SANSKRIT (संस्कृतम्)

1. आधुनिक संस्कृतस्य पञ्च- विशेषतां लिखत ।

आधुनिक संस्कृत की कोई पाँच विशेषताएँ लिखिए ।

2. वर्तमान परिप्रेक्ष्ये संस्कृत व्यावहारिकम् भाषा अस्ति न वा ?

(वर्तमान समय में संस्कृत व्यावहारिक भाषा है या नहीं पक्ष विपक्ष में तर्क प्रस्तुत करें)

3. संस्कृत भाषायाम् अनुवादम् कुरुत :-

(क) लड़कियाँ कक्षा से बाहर जाती हैं ।

(ख) वरदराजाचार्य संस्कृत के विख्यात वैयाकरण हैं ।

(ग) यमुना कलिन्द पर्वत से निकलती है ।

(घ) राम ने रावण को अपनी बाणों से मारा ।

(ङ) वह एक पैर से लंगड़ा है ।

MATHEMATICS

PROBLEMS:

1. Show that 12^n cannot end with the digit 0 or 5 for any natural number n .
2. If $\text{LCM}(480, 672) = 3360$, find $\text{HCF}(480, 672)$
3. Explain why $3 \times 5 \times 7 + 7$ is a composite number.
4. Find the least number which when divided by 12, 16, 24 and 36 leaves a remainder 7 in each case
5. State the Fundamental theorem of Arithmetic
6. Why the number 4^n , where n is a natural number, cannot end with 0?
7. Prove that $3+3\sqrt{3}$ is a irrational number
8. After how many decimal places, the following rational numbers are terminate i) $\frac{14587}{1250}$ ii) $\frac{73}{125}$
9. If a rational $\frac{p}{q}$ where p and q are co primes and $q \neq 0$ having terminating decimal expansion, what should be property of q
10. If a number in the form of $(M)^n$ ends with zero where M is nonzero integer and n is natural number then What is property of M
11. If α and β are two zeroes of polynomial $f(x) = x^2 + x + 1$, then find the value $\alpha^2 + \beta^2$
12. If one zero of the polynomial $f(x) = (k^2+4)x^2 + 13x + 4k$ is reciprocal of the other, then find k
13. If α and β are two zeroes of polynomial $f(x) = x^2 + px + q$, then find polynomial having zeroes $\frac{1}{\alpha}$ and $\frac{1}{\beta}$
14. If α and β are two zeroes of polynomial $f(x) = x^2 - p(x+1) - c$, then find the value of $(\alpha+1)(\beta+1)$
15. Define zeroes of polynomial also define it from concept of graph $p(x)$
16. Define degree of polynomial?
17. How many zeroes a polynomial of degree n have?
18. Find the quadratic polynomial whose zeroes are $\frac{3+\sqrt{3}}{5}$ and $\frac{3-\sqrt{3}}{5}$
19. Draw the graph of polynomial $p(x) = x^2 - 1$ and find its zeroes from graph
20. If α and β are two zeroes of polynomial $f(x) = 2x^2 + 5x + k$, such that $\alpha^2 + \beta^2 + \alpha\beta = \frac{21}{4}$, find value of k

ACTIVITY:

- 1) Graph of a quadratic polynomial.
- 2) To find the conditions for consistency and inconsistency for system of linear equations in two variables by graphical method.

NOTE : Homework should be neat and clean

Homework should be done in homework/assignment copy

Activity should be done in lab manual note book

SCIENCE

PHYSICS

1. Draw ray diagram for the formation of image in spherical lenses (Convex & Concave lens). Also write the position, size and nature of image formed in each case.
2. Tabulate absolute refractive index of any 5-material mediums. In which of these medium, the speed of light will be a) Maximum and b) Minimum.
3. Observe your day-to-day activities during Summer Vacation 2022 and enlist any five activities which involves the Principles of Reflection or Refraction. *Describe any two of these activities comprehensively.*
4. Solve any 15 numerical problems based on "Mirror formula".

CHEMISTRY

Write down experiment performed in the class in your practical note book

Experiment no. 1

Types of chemical reactions

1 (a) combination reaction

1(b) decomposition reaction

1(c) displacement reaction

1(d) double displacement reaction

BIOLOGY

1. Prepare a Project file on the topic Nutrition and Respiration.

SOCIAL SCIENCE

General Instructions:

i. All questions are compulsory.

ii. Answer of all the questions must be written in Point wise format with proper explanation.

iii. Do Activity work in separate activity copy . (75 page copy)

1." The dream of Worldwide Democratic and Social Republics -The Pact Between Nations , a print prepared by Frederic Sorrieu , 1848."(page no. 03 ,NCERT)

Analyse this print and point out all important issues visualised by Sorrieu in this print.

2. "The French revolutionaries introduced various measures and practices in order to create a sense of collective identity amongst the French people." Justify this statement by pointing out different measures and practices introduced by them. (Any 07)

Are these measures and practices still relevant? If yes support your answer with respect to India.

3. "Peasants, artisans, workers and new businessmen enjoyed a new found freedom after the introduction of Civil Code of 1804 by Napoleon." Justify with suitable arguments. (Minimum 06 points)

4. Explain the meaning of the term Liberalism and Liberal Nationalism. What does Liberal Nationalism stand for Economic sphere, Political sphere and Social sphere?

5. When and why the meeting of Congress of Vienna was summoned? Point out important provisions of Congress of Vienna (COV).

Do you think COV provided Conservatives an opportunity to suppress Liberals and restore Conservative dominance in Europe?

6. Explain the process of Italian Unification.

Case Based Questions

7. Read the given text and answer the following questions:

"Dr. B.R. Ambedkar, who organised the Dalits into Depressed Classes association in 1930, clashed with Mahatma Gandhi at the second Round Table Conference by demanding separate electorates for Dalits. When the British government conceded Ambedkar's demand, Gandhiji began a fast unto death. He believed that separate electorates for Dalits would slow down the process of their integration into society. Ambedkar ultimately accepted Gandhiji's position and the result was the Poona Pact of September 1932. It gave the Depressed Classes reserved seats in provincial and central legislative councils, but they were to be voted in by general electorate."

7.1 Why Gandhiji opposed separate electorates for Dalits?

7.2 Why Ambedkar clashed with Mahatma Gandhi at the second Round Table Conference?

7.3 Why Poona Pact was signed?

8. Explain the meaning of Power Sharing. Also explain the Four forms of Power Sharing practiced in modern democracies. (Support your answer with suitable example.)

9. Compare the case of Belgium and Sri Lanka and point out important conclusion with respect to Power Sharing and its influence.

10. "Belgium Model is a classical example to conclude that Power Sharing is inevitable in modern democracies." Justify this statement by pointing out important provisions of this model.

11. Why Sri- Lanka failed to restore peace and harmony after Independence ?

12. Why Power Sharing is desirable ?

13. Explain the meaning of the following terms.

- i) Prudential ii) Civil War iii) Majoritarianism iv) Ethnic
v) Absolutist vi) Utopian vii) Conservatism viii) Nationalism

14. Why do different people have different notions of development ?

15. " Money in your pocket cannot buy all the goods and services that you may need to live well." Explain.

16. In what respects is the criterion used by the UNDP for measuring development different from the one used by the World Bank ?

17. Explain the meaning of the following terms.

- i) Developmental Goals ii) Per Capita Income iii) Infant Mortality Rate
iv) Literacy Rate v) Net Attendance Ratio vi) HDI

ACTIVITY :

1. Collect the Literacy Rate of India , Literacy Rate of male in India and Literacy Rate of female in India from 1941 Census to 2011 Census.

On the basis of data collected prepare a brief report on the development of Education in India.

2. What are the indicators considered by UNDP for preparing HDI report ?

Find out the position of India in HDI Report of 2015,2016,2017,2018 and 2019.

Suggest five measures to Government of India to improve India's position in HDI Report.

3. When and why Zollverein was formed ? Point out the different measures adopted by Zollverein to promote trade.

Compare Zollverein with modern days Economic Organization of Europe i.e. European Union and draw some similarities and differences .

GEOGRAPHY

1. What are the reason of land degradation in the following States of India-

- A.. Punjab & Haryana
B. Gujarat.
C. Maharashtra.
D. Jharkhand.

2. Are Resource free gift of nature? Explain.

3. Highlights any three problems associated with the indiscriminate use of resources by the human beings.

4. On outline map of India show the area of-

- A. Black soil.
- B. Arid Soil.
- C. Alluvial soil
- D. Laterite soil.

INFORMATION TECHNOLOGY (402)

Answer the question:-

1. Describe about environmental pollution causes and effects using MS word and also embed facts photograph related to environmental pollution.

Note :- document setups (file should be of minimum 2 page)

i. A4 size page

ii. Portrait orientation

iii. Main topic Heading font size 18-20, subheadings 14-16, normal paragraph font size 12.

iv. Font family:- Arial, Arial black

v. Paragraph alignment justify

vi. Finally print the document and submit it in a stick file to their subject teacher.
