SRI RAM KRISHAN DAV PUBLIC SCHOOL,SURIYA(GIRIDIH)

DIWALI AND CHHATH PUJA HOLIDAY HOME WORK

SESSION(2026-27)

CLASS-IX

MATHEMATICS

SECTION A – ALGEBRA

Q1. The degree of $7x^5 - 3x^2 + 4x - 9$ is:

(A) 2 (B) 3 (C) 5 (D) 7

Q2. How many terms are there in $4x^3 + 5x^2 - 7x + 8$?

(A) 2 (B) 3 (C) 4 (D) 5

Q3. The coefficient of x^2 in $5x^3 - 8x^2 + 6x - 4$ is:

(A) 5 (B) 8 (C) −8 (D) 6

Q4. If $p(x) = x^2 + 3x + 2$, then $p(2)$ is:

(A) 8 (B) 10 (C) 12 (D) 14

Q5. If $p(x) = x^2 - 16$, its zeroes are:

(A) 4, 4 (B) −4, −4 (C) 4, −4 (D) 0, 16

Q6. The zeroes of a polynomial are where its graph intersects the:

(A) Y-axis (B) X-axis (C) Origin only (D) Both axes

Q7. A quadratic polynomial can have at most how many zeroes?

(A) 1 (B) 2 (C) 3 (D) 4

Q8. Factorisation of $x^2 + 5x + 6$ is:

(A) $(x + 1)(x + 6)$ (B) $(x + 2)(x + 3)$ (C) $(x - 2)(x - 3)$ (D) $(x + 5)(x + 1)$

Q9. Expansion of $(a + b)^2$ is:

(A) $A^2 + b^2$ (B) $a^2 + 2ab + b^2$ (C) $a^2 - 2ab + b^2$ (D) $a^2 - b^2$

Q10. The value of 99^2 is:

(A) 9801 (B) 9901 (C) 9701 (D) 9991 SECTION B – ARITHMETIC PROGRESSIONS (AP)

Q11. Which of the following is an arithmetic progression?

(A) 2, 4, 8, 16 (B) 5, 9, 13, 17 (C) 1, 4, 9, 16 (D) 1, 2, 4, 8

Q12. The common difference of 18, 13, 8, 3, … is:

(A) 5 (B) −5 (C) 3 (D) −3

Q13. If $a = 4$ and $d = 3$, the 5^{th} term is:

(A) 13 (B) 15 (C) 16 (D) 17

Q14. If the first term is 6 and d = −2, the 4^{th} term is:

(A) 0 (B) 2 (C) 4 (D) 8

Q15. The nth term of an AP is:

(A) A + nd (B) a + (n – 1)d (C) a – (n – 1)d (D) a + 2^{nd}

Q16. Which term of 3, 8, 13, 18, … is 78?

(A) 14^{th} (B) 15^{th} (C) 16^{th} (D) 17^{th}

Q17. The 3^{rd} term is 12 and the 7^{th} term is 28. The common difference is:

(A) 3 (B) 4 (C) 5 (D) 6

Q18. The sum of the first 10 terms of 3, 7, 11, … is:

(A) 190 (B) 200 (C) 210 (D) 220

Q19. A hall has 20 seats in row 1 and 4 more seats in each next row. How many seats are in row 10?

(A) 52 (B) 54 (C) 56 (D) 58

Q20. The first term is 10 and the 9^{th} term is 50. The sum of 9 terms is:

(A) 250 (B) 260 (C) 270 (D) 280

Social science

A)Write these questions and answers

1)Describe Spring tide and Neap tide with their picture.

2)How can we use ocean resources in a Sustainable way?

3)Describe the land forms created by waves with their picture.

B) Prepare LAB manual.

Holiday Homework – English

1. Invitation Writing: Draft a formal invitation inviting parents to your school's Annual Day celebration.

2. Letter to the Editor: Write a letter to the editor of a newspaper expressing concern about the increasing use of plastic and its harmful effects on the environment.

3. E-mail Writing: Write an e-mail to your Principal requesting permission to organise a tree plantation drive in your school.

4. Literature – Kaveri (Lesson: Carrier of Words):

Q. Describe the difficulties faced by Khetaram while delivering letters to remote villages. How does his dedication towards his duty make him an inspiring person?

CHEMISTRY

1) Write any 10 Chemical name and chemical formula of

a) Ionic compounds

b) Covalent compounds

2) Write any six difference between Ionic and Covalent Compounds.

BIOLOGY

Prepare ANY ONE of the following creative projects using a chart paper, scrapbook or waste materials.

1. 3D Classification Tree: Draw or make a tree showing the five kingdoms with two examples of each.

2. Biodiversity Scrapbook: Paste pictures of any 10 plants, animals and fungi found in your surroundings. Write their names.

3. Creative Herbarium: Collect and paste any 8 different leaves. Write their names and classify them.

4. Animal Kingdom Wheel: Make a rotating wheel showing different animal groups with two examples of each.

PHYSICS

1) Write NCERT exploration exercise questions of chapter - Work, power, Energy & simple machines.

2) Draw Different types of simple machines in A4 size sheet.

विषय- हिंदी

(1) दीपावली की बधाई तथा विद्यालय में वाद-विवाद प्रतियोगिता के लिए एक सूचना तैयार कीजिए।

(2) नोटबंदी तथा पौधारोपण पर चर्चा करते हुए दो मित्रों के बीच होने वाला संवाद लिखिए।

(3) छात्रावास की जीवन शैली के बारे में बताते हुए अपनी माताजी को पत्र लिखिए ।

(4)नित्य प्रात: काल उठकर खुली हवा में घूमने और व्यायाम करने की सलाह देते हुए अपने छोटे भाई को पत्र लिखिए।

(5) निम्नलिखित पर 80 से 100 शब्दों में अनुच्छेद लिखिए।

(क) कृत्रिम बुद्धिमत्ता(ए. आई) एक वरदान या अभिशाप

(ख) विज्ञापन की बढ़ती लोकप्रियता