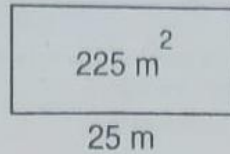| Subject	Homework
English Language	➢ Create a storybook based on your favourite fictional character from your English Literature syllabus. ➢ The storybook should include the following elements:- ➢ Vocabulary words introduced in the classroom ➢ Illustrations that depict incidents from your story. ➢ A title page that includes a creative title and your name as the author and an acknowledgement. ➢ Divide your story into chapters and assign names to these chapters. ➢ **Safal Genius Book**- Q- 51 to 90 (grammar) and passages 3 and 4 (Comprehension). ➢ **Super comprehension**- Units 3 and 4.
English Literature	➢ Prepare for July Test. ➢ **Treasure Island**- Prepare the chapters 1 to 10 for the class assessment to be held in July.
Hindi Language	➢ वर्तमान समय में समाज के कुछ प्रतिष्ठित व्यक्तियों द्वारा समाज कल्याण के लिए कुछ संस्थाएँ चलाई जा रही हैं। संस्थाओं के नाम तथा उनके बारे में लिखिए। समस्त कार्य कार्यपुस्तिका में करिए।
Hindi Literature	➢ रामायण एवं महाभारत के निम्नलिखित पात्रों का परिचय चित्र सहित लिखिए- ➢ त्रिजटा, सुमित्रा, मंदोदरी, मेघनाथ, अश्वत्थामा, कर्ण, घटोत्कच तथा बर्बरीक। समस्त कार्य कार्यपुस्तिका में करिए।
Mathematics	➢ Solve the given worksheet in the practice register.
Physics	➢ Prepare for July test. ➢ Buoyancy and density: Explore the concept of buoyancy by making small boats out of different material clay, foil or plastic and testing how many coins each boat can hold before sinking. Write how the density of the materials affects upthrust. Write your observations and conclusions in physics notebook.
Chemistry	➢ Identification of acid and base with the help of natural indicator (turmeric solution). Paste it in your class notebook.
Biology	➢ To prepare a simple working model of heart to show the role of valve.
History / Civics	➢ Make a project on the topic "Lok Sabha Election 2024". Imagine yourself to be one of the eminent representatives standing for the Lok Sabha Election. Make a manifesto for election, address a speech / meeting and the name the places you have visited for the campaigning. ➢ Also express your experience in not more than 50 words.
Geography	➢ Make a project on the topic "Brain drain from India". Analyse the brain drain trends in India and find out the reasons responsible for it, also suggest ways in which India can hold back its capable and talented population from migration (make project in Geography note book). ➢ Do the work sheet.
Computer Science	➢ Stick the pictures (in computer register) of logos of 8 famous IT companies. Write 4 to 5 lines related to the company.
Art	➢ Complete and submit the given craft in July.

Q1. (i) The mean proportional between 9 and 16 is _____.
(ii) If $8 : 12 :: 6 : m$, the value of m is _____.
(iii) The simple interest on Rs. 30000 for 3 years at the rate of 15% per annum is _____.
(iv) The degree of the polynomial $5x^3 + 6x^2 - 3x + 20$ is _____.
(v) If $48\,a^4b^5c^6$ divided by $-16a^2c^2$, the quotient is _____.

Q2. Simplify: $\dfrac{725 \times 725 - 413 \times 413}{725 + 413}$

Q3. Two numbers are in the ratio 2:3. When 4 is added to both the terms, the ratio becomes $3 : 4$, find the numbers.

Q4. A sum of money at simple interest amounts to Rs. 2240 in 2 years and Rs. 2600 in 5 years. Find the sum and the rate of interest.

Q5. Factorise : $48\,ax^2 - 75\,ay^2$

Q6. If $4A = 5B = 12C$, find $A : B : C$

Q7. What must be subtracted from $x^4 + 6x^3 + 13x^2 + 13x + 8$ so that the resulting polynomial is exactly divisible by $(x^2 + 3x + 2)$.

Q8. Solve: $\dfrac{6}{3m+1} = \dfrac{9}{5m-3}$

Q9. Divide Rs. 8000 into two parts such that the simple interest on one part lent out at 8% per annum for 5 years may be equal to the simple interest of the second part for 8 years at 3 % per annum.

Q10. Divide: $(x^3 - 4x^2 + 7x - 2)$ by $(x - 2)$.

Q11. Divide $(8x^3 - 27)$ by $(2x - 3)$.

Q12. The simple interest on a certain sum of money for 3 years at 8% per annum is half of the compound interest on Rs. 4000 for 2 years at 10% per annum. What is the sum placed on simple interest?

Q13. Find the value of x in the following proportion:
(a) $4.5 : 0.09 :: x : 1.8$ (b) $x : 7\frac{1}{2} :: 5\frac{1}{3} : 2\frac{1}{3}$

Q14. Find the fourth proportional to:
(a) $\frac{3}{5}, \frac{2}{3}, 2\frac{1}{7}$ (b) 43 kg, 64.5 kg, 13 kg.

Q15. A bag contains Rs 372 in the form of 50 paise, 25 paise and 20 paise coins in the ratio 4: 5:7. Find the number of each type of coin.

Q16. Three times the smallest of three consecutive odd numbers decreased by 7 equals twice the largest one. Find the numbers.

Q17. One number is 7 more than another and its square is 77 more than the square of the smaller number. What are the numbers?

Q18. The sum of the digits of a two-digit number is 7. The number obtained by interchanging the digits exceeds the original number by 27. Find the number.

Q19. Mary is 3 times as old as Bhawana, and the sum of their ages 5 years from now will be twice Mary's present age. How old are they now?

Q20. $4(x-2)$ metres of rope is used to fence this rectangular enclosure. Find x.

$$225 \text{ m}^2$$

25 m

Q21. Two cars leave Delhi at the same time, travelling in opposite directions. If the average speed of one car is 5 km/h more than that of the other and they are 425 km apart at the end of 5 hrs, what is the average speed of each?

Q22. The enrolment in a school this year is 552. This is an increase of 15% over last year's enrolment. How many were enrolled last year?

Q23. Factorise: $16 x^4 - y^4$.

Q24. Factorise: $12y^3 - 14y^2 - 10y$.

Q25. Subtract the sum of $(4x^3 + 2x^2 - 5)$ and $(15x - x^3 - x^2)$ from the sum of $(9 + 6x - 2x^2)$ and $(4x - 1 - 5x^3 + x^2)$.

Q26. How much is $6x^3 + 2x^2 - 8$ greater than $-2x^3 + x^2 + 7x - 11$?

Q27. Multiply $(x^2 + xy - y^2)$ by $(x^2 - xy + y^2)$.

Q28. What must be subtracted from $x^4 + 6x^3 + 13x^2 + 13x + 8$ so that the resulting polynomial is exactly divisible by $(x^2 + 3x + 2)$.

Q29. Factorise: $64x^2 - 80xy + 25 y^2$.

Case Study:

Q30. Shyama's mother wants to donate some money to poor people. The amount to be donated is Rs. $(p^2 - p - 42)$ and the number of poor people are $(p + 6)$. Answer the following questions based on the above situation.

(a) The factors of the given amount are
(i)   (p-6)(p +7)
(ii)   (p -6)(p -7)
(iii)   (p +6)(p + 7)
(iv)   (p +6)(p – 7)

(b) The amount received by each person is
   (i) (p +6)   (ii) (p – 6)   (iii) (p + 7)   (iv) (p – 7)

(c) If the value of p is 10, then the value of the total amount is
   (i) Rs. 100   (ii) Rs. 50   (iii) Rs. 42   (iv) Rs. 48

(d) When the value of p is 10, then the number of people are
   (i) 3   (ii) 7   (iii) 16   (iv) 26

(e) When the value of p is 10, then the amount received by each person is
   (i) Rs 3   (ii) Rs. 5   (iii) Rs. 10   (iv) Rs 42

Dr. Virendra Swarup Education Centre, Avadhpuri
Subject - Geography
Summer Holiday Assignment (2024-25)
Class 8

Thought provoking questions

1- Mohan Is a student reaching in class 8 in village Rampur. He aspires to become an engineer.

    a) How would you suggest Mohan about the opportunities in the urban areas to study?

    b) What are the drawbacks of living in rural areas?

    c) Compare the cost of living in both rural and urban areas.

    d) What are your suggestions to improve the conditions of villages?

2- Rakesh is retired from his job last week. He is having some health issues. He is planning to settle in India.

He loves hill stations. Do you think he should settle in mountainous region?

    a) If yes then give some reasons to support your answer.

3- Assertion- (A) People tend to migrate from rural to urban areas.

Reason- (R) Most villages in India have poor infrastructure and few social amenities.

    a) Both A and R are true but R is not the correct explanation of A

    b) Both A and R are true but R is the correct explanation of A

    c) A is true but R is false.

    d) A is false but R is true

4- (A) Internal migration is within the country.

    (R) The size of population is not changed.

    a) Both A and R are true and R is correct explanation of A

    b) A is true but r is false.

    c) Both statements are false

    d) A is false but r is true.

5- (A) Gender ratio in Haryana has improved.

    (R) i- Many NGOs have spread awareness among the people.

        ii- Beti bachao and beti padhao

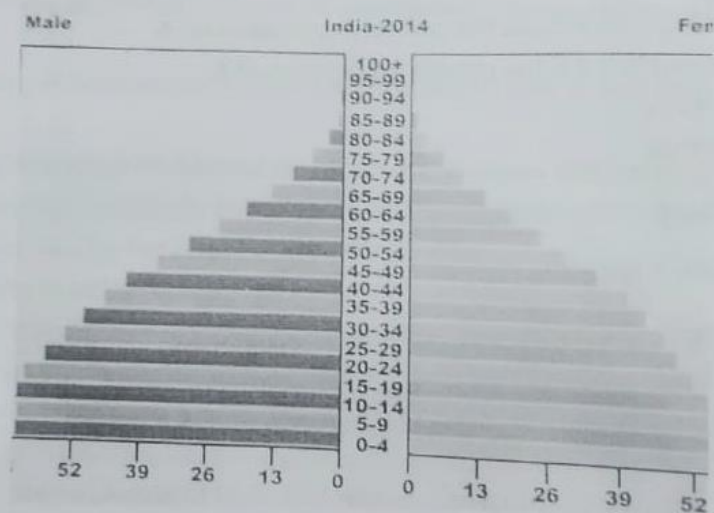Government Policy has played a vital role.

    a) Both (I) and (ii) are incorrect

    b) (I) is correct.

    c) (ii) is correct.

    d) Both (I) and (ii) are correct

6. Observe the picture and answer the questions:

   a) What does the picture depict?
   b) What are the causes of such conditions?
   c) Suggest some remedial measures.

8- Observe above population Pyramid of India and answer the following questions:

   a) What is the employment status of the country?
   b) What policies should be made by government to control high birth rate in our country?
   c) What kind of society would you see?
   d) Name some government policies that empower our females?

9- Define the following terms:

   a) Contour   b) Cliff   c) Refugee   d) Brain drain   e) population density

   f) Underpopulation   g) overpopulation

10- Why Brian drain is common from developing countries to developed countries?

11- How remittance send by Migrants is useful for home country?

Dr. Virendra Swarup Education Centre, Avadhpuri, Kanpur
Current Affairs (April, 2024)

1. Amitabh Chaudhary has been reappointed as MD and CEO of Axis Bank.
2. In Netherlands, the 26th World Energy Congress was organized from 22-25 April, 2024.
3. Usain Bolt has been appointed as the brand ambassador of ICC Men's T20 World Cup 2024.
4. Prabowo Subianto has been appointed as the new President of Indonesia.
5. The Archery World Cup 2024 stage 1 was organized in Shanghai, China. India finished it with eight medals- five gold, two silver and one bronze.
6. C-DOT (Centre for Development of Telematics) and IIT, Jodhpur signed an agreement for "Automated Service Management in Network of 5G and beyond using AI".
7. Yuzvendra Chahal became the first bowler to take 200 wickets in IPL history.
8. Max Verstappen recently won the title of Shanghai Grand Prix 2024.
9. Professor Naima Khatoon has been appointed as the first woman Vice Chancellor of Aligarh Muslim University.
10. GMR Hyderabad International Airport won the Skytrax Award 2024 for 'Best Airport Staff'.
11. On April 16, 2024, Varanasi's 'Tricolour Barfi' known for its historical significance and unique ingredients received the prestigious GI tag.
12. Dinesh Kumar Tripathi has been appointed as the next Chief of the Indian Navy.
13. DRDO successfully test fired Indigenous Technology Cruise Missile (ITCM) off the coast of Odisha.
14. Indian institute of Astrophysics played an important role in Shri Ram 'Surya Tilak' program in Ayodhya.
15. Sheikh Ahmed Abdullah Al-Ahmad Al-Sabah has become the new Prime Minister of Kuwait.
16. Sunrisers Hyderabad broke its own record of the highest team score in the IPL history.
17. Himanchal Pradesh Cricket Association (HPCA) stadium in Dharamsala is the first stadium in India to use hybrid pitch technology.
18. KSTAR, which stands for Korea Superconducting Tokamak Advanced Research, is a nuclear fusion reactor in South Korea, often referred to as an "Artificial Sun". It's a magnetic fusion device designed to achieve controlled nuclear fusion, the same process that powers the sun and stars. It sets record for sustaining plasma at 100 million degree Celsius which is seven times that of the Sun's core.
19. Tamil Nadu Governor, R.N. Ravi, inaugurated the Param Vir Chakra Garden at Kanchi Mahaswami Vidya Mandir in Tambaram, showcasing statues of the 21 awardees.
20. India's Bharat 6G is on the verge of finalizing a Memorandum of Understanding (MoU) with Europe's Industry Alliance 6G.

Important Days

1. World Health Day – 7 April
2. World Art Day – 15 April
3. World Heritage Day – 18 April
4. World Earth Day - 22 April
5. World Book and Copyright Day - 23 April