

S.B.P. D.A.V. Centenary Public School, Fatehabad.

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Holidays' Assignments for Summer Vacations (2019-20) for Class X

General Instructions:

1. *Get up early in the morning and go out for a walk daily.*
2. *Make a Bird feeder and add seeds for birds daily and also place water for them.*
3. *Raise a small kitchen garden by planting seeds.*
4. *Learn any one folk song.*
5. *Help your mother in cooking and learn vegetable cooking and salad decoration.*
6. *The summer break for Nursery to XII will be from May 24, 2019 to July 1, 2019 (Both days inclusive). School will reopen on July 2, 2019.*
7. *Revise the syllabus of all subjects done before summer vacations for Unit Tests to be arranged after summer break.*
8. *Try to make your handwriting better by practicing and do your HW in good handwriting.*
9. *Do assignments in separate note books for each subject and make a single project file for all projects & submit it to your class teacher on July 2, 2019.*
10. **Register & Participate in 1st stage of 5th Online International Humanity Olympiad by accessing through our web portal – www.humanityolympiad.org or Android App - Awake Humanity (play store). Every individual passing the exam (i.e. scoring minimum 40%) will get an e-certificate through e-mail immediately on their emails. School code is : FATE001**
11. *Learn all the prayers and mantras given in student diary.*

ENGLISH

SYLLABUS FOR UNIT –TEST –I

BEEHIVE –Lesson -1,2 (letter to God, Nelson Mandela)

POEMS – 1, 2 , 3(Dust of snow , Fire and Ice ,A tiger in a zoo)

FOOT PRINTS WITHOUT FEET – lesson 1, 2 (A triumph of surgery , A thief's story)

GRAMMAR – Tenses , Modals , Business Letters

HOLIDAYS HOMEWORK

I. Do following worksheets in BRAVIA PRACTICE BOOK

- a) Worksheet one to five of comprehension .
- b) Do chapter 1 and 2 of grammar.
- c) Do Integrated Grammar worksheet 53,54,55,56.
- d) Do ACTIVITY -7 A Travelogue (Page-15)
- e) Read any one of the following books and write book REVIEW on page -13 -ACTIVITY -6

BOOKS TO READ

1. AN INVISIBL E MAN--- BY H.G WELLS
2. JUNGLE BOOK--- BY RUDYARDB KIPLING
3. THREE MEN IN A BOAT—BY JEROME. K. JEROME

II .Write any two business letter for placing orders in your scrap file. (Roll No 1 to 10)

III. Write any two business letter for cancelling orders in your scrap file. (Roll No 11 to 20)

IV. Write any two business letter for replacement of items in your scrap file. (Roll No 21 to 31)

V. Write any two business letter for reparation of items in your scrap file. (Roll No 32 to last)

VI Write five pages of diary entries of different five days which were unforgettable for you, specially during holidays.

HINDI

1) इन विषयों पर निबंध लिखें-

- i) युवा पीढ़ी पर फैशन जगत एवं आधुनिकता का प्रभाव
- ii) कोई एक ऐतिहासिक यात्रा
- iii) नारी शक्ति : नारी का प्राचीन स्वरूप आधुनिक युग में नारी
- iv) मीडिया का सामाजिक उत्तरदायित्व

2) विज्ञापन आज के युग का आधार है-पर्यावरण विभाग की ओर से 'जल संरक्षण' का आग्रह करते हुए, कूलर निर्माता द्वारा कूलर की बिक्री हेतु, अपना घर किराये पर देने हेतु व नीमयुक्त 'मुस्कान' टूथपेस्ट के लिए आप आकर्षक विज्ञापन तैयार कीजिये।

3) भक्ति काल से संबंधित कवि कबीरदास व सूरदास में से किसी एक का जीवन परिचय, रचनाएँ, उनके जीवन मूल्य चित्र सहित अपनी कार्य पुस्तिका में तैयार करें।

4) प्रेरणादायक हिंदी फिल्में 'उड़ान' व 'लक्ष्य' देखें व यह भी सार रूप में बताएं कि आपने इनसे क्या सीखा ?

5) कोई पांच अपठित गद्यांश अपठित काव्यांश व उनके प्रश्नों के उत्तर अपनी कार्य - पुस्तिका में लिखें ।

6) अनौपचारिक व औपचारिक पत्रों का प्रारूप तैयार करें ।

7) प्रथम ईकाई परीक्षा सम्बन्धी पाठ्यक्रम की दोहराई करें ।

MATHS

REAL NUMBER

1. Show that $(4+2\sqrt{3})$ is not a rational number. [b] Is $13 \times 11 \times 7 \times 5 + 11$ is composite no.
2. Find the HCF using Euclid's Division Algorithm : 1638, 1170, 1248. [78] [b] 2925, 3600, 1305. [45]
3. Find the LCM of 2670, 6230 [18690] [b] 960, 1440. [2880]
4. Find the HCF and LCM using prime factorization : 2646, 2025, 2160 [$27, 3^4 \times 2^4 \times 5^2 \times 7^2$]
5. Find the largest number that will divide 445, 572 and 699 leaving remainders 4, 5, 6 respectively. [63]
6. Find the largest number that will divide 768, 858, 946 leaving remainders 3, 5 and 11 respectively. [85]
7. Determine the number between 2500 and 2600 which is exactly divisible by 84, 90 and 120. [2520]
8. Prove that the square of any +ve integer is of the form of $5p$ or $5p+1$ or $5p+4$ for some integer p
9. Find the smallest number which leaves remainder 8, 20 when divided by 48 and 60. [200]

POLYNOMIAL

1. On dividing $6x^4 + 7x^3 - 28x^2 + 40x - 20$ by $g(x)$, the $q(x) = 2x^2 + 5x - 4$, $r(x) = (14x - 12)$. Find $g(x)$. [$3x^2 - 4x + 2$]
2. If $-3/2$ is one of the zero of $2x^3 - 21x^2 + 28x + 96$. Find the other zeroes. [4, 8]
3. If the sum and product of zeroes of $4x^2 - (5m+3)x + (3n+5)$ are 7 and 5 resp. Find m and n . [5, 5]
4. If -2 and 2 are the two zeros of polynomial $12x^4 + 2x^3 - 52x^2 - 8x + 16$, find other zeros. [$1/2, -2/3$]
5. If sum of zeroes of $x^2 + (5m-7)x - (2m-7)$ is four times of its product of zeroes. Find m . [7]
6. On dividing $6x^4 - 13x^3 + 2x^2 + 24x + 20$ by $3x^2 - 5x + 3$, the remainder is $4px + q$. Find the value of p and q . [3, 29]
7. What must be added $p(x) = 4x^4 + 7x^3 + 8x^2 - 20x + 25$ so that $4x^2 - 5x + 3$ must be a factor of $p(x)$. [$4x - 10$]

8. If p and q are the zeroes of $6x^2+x+k$, and $p^2+q^2=25/36$. Find the value of k. [-2]
9. If sum of the zeroes of $x^2 + (3m+7)x - (2m-3)$ be twice its product of zeroes. Find the value of m. [13]
10. If m and n are the zeroes of $3x^2+3x+2$. Find the value of $nm^4 + mn^4$ (b) $6m^2n + 6n^2m$. [2/3, -4]

PAIR OF LINEAR EQUATION IN TWO VARIABLES

1. Solve for x and y: $4(x-2y) + (5x+3y) - 52 = 40$, $3(x - 7y) + 2(x+9y) - 20 = 32$ [8,-4]
2. Solve: for x and y : $9x+5/y=46$, $11x+12/y=68$ [4,1/2] [b] $7x-5y = 35q + 40p$, $6x-7y = 30q+56p$ [5q,-8p]
3. Solve for x and y : $3x+7qy = 12p+35q$, $4qx+5y = 16pq + 25$ [4p,5]
4. Solve for x and y : $4(x-2y) - (5x+3y) = 50$, $3(x - 7y) + 2(x+12y) - 10 = 0$ [5,-5]
5. Solve for x and y : $6(bx-5ay)=3b+10a$, $6(ax+7by)=3a - 14b$ [1/2,-1/3]
6. Solve for x and y : $36/(x+3y) + 35/(3x-y) = 9$, $45/(x+3y) - 21/(3x-y) = 2$ [3,2]
7. Solve for x and y : $54/(x-4) + 35/(y-4) = 13$, $36/(x-4) + 65/(y-4) = 17$ [13,9]
8. The age of father is 11 years less than twice the sum of the ages of his 3 children. After 10 years he will be 5 years less than the sum of his children ages at that time. Find the age of the father. [49]
9. A two digit number is either multiplying the sum of digits by 8 and adding 3 or multiplying the difference digits by 14 and subtracting 5. Find the number. [51]
10. The sum of the digits of two digit number is 11. If 45 is added in the given number the digits are interchanged. Find the given number. [38]
11. A boat goes 28 km upstream and 56 km downstream in 11 hrs. It goes 32 km upstream and 70 km downstream in 13 hours. Find the speed of the boat in still water and also speed of the stream. [9,5]
12. 4 kilogram of salt and 5 kg of sugar together cost Rs.140. If the price of salt increases by 10% and the price of sugar increases by 50% the cost would be Rs.194. Find the original cost per kilogram of each. [10,20]
13. In a right angled Δ if base is reduced by 4m and altitude is increased by 4m, then area is increased by $20m^2$ However if base is increased by 6m and altitude is increased by 2m, the area is increased by $60m^2$. Find the hypotenuse of the Δ . [26]
14. 8 men and 12 boys can finish a piece of work in 10 days. 6 men and 8 boys can finish it in 14 days. Find the time taken by one man alone and that by one boy alone to finish the work. [140,280]
15. Points A and B are 200 km apart on a highway. A car starts from A and another from B at the same time. If they travel in the same direction, they meet in 10 hrs., but if they travel towards each other, they meet in 2 hours. What are their speeds? [40,60]
16. Students of class X are made to stand in rows. If there are 3 students are extra in a row, there would be 2 rows less. If 5 students are less in a row, there would be 6 rows more. Find total students. [180]

QUADRATIC EQUATION

1. Solve for x : $3(x+4)(x+3) - 4 = 20x + 4(x-1)(x+2)$ [5, -8] [b] $(x-4)(x+6) = 13x - 3(x+1)(x-2)$ [5, -3/2]
2. Find k if $(k+1)x^2 - 2(4+k)x + 2k = 0$ has equal roots. [-2, 8] [b] $(5k-1)x^2 - 2(k+4)x + (k+2) = 0$ [2, -9/4]
3. Solve for x : $15abx^2 - (9b+25a)x + 15 = 0$ [3/5a, 5/3b] [b] $14px^2 + (21pq-4q)x - 6q^2 = 0$. [2q/7p, -3q/2]
4. Find three consecutive odd natural numbers, the sum of whose products by pairs is 359. [9, 11, 13]
5. The sides of the right triangle containing the right angle are $5x$ and $(6x+2)$ in meters. The area of the triangle is 150 sq.m. Find the sides of the triangle. [15, 20, 25]
6. Two pipes running together can fill a tank in 6 hours. If one pipe takes 5 hours more than the other to fill the tank, find the time in which each pipe would fill the tank. [15, 10]
7. Divide 40 into two part such that thrice the square of smaller part exceeds the square of the larger part By 50. Find the two parts. [25, 15]
8. A cyclist takes 45 minutes less to cover 27km distance if its speed is increased by 3km/h from its usual speed. Find its usual speed. [9]
9. A motor-boat moving at 9km/h in still water goes 12km. downstream and came back in total of 3 hours. Determine the speed of water. [3]
10. Some students planned a picnic. The budget for food was Rs.480. But eight of these failed to go and thus the cost of food for each member increased by Rs.10. How many students attended the picnic? [16]

Activities :

1. To draw the graph of $2x^2-5x-12$. Recognize the shape of the curve so obtained. Also determine the zeroes of the polynomial. [Roll number from 1 to 15]
2. To determine the conditions for consistency of a system of linear equations in two variables by graphical method. [Roll number from 16 to 30]
3. To obtain the HCF of 18 and 48 by graphically. [Roll number from 31 to 45]

SOCIAL SCIENCE

A. Prepare a short atlas by preparing maps on A-4 sheets

GEOGRAPHY :

Chapter 1: Resources and Development Identification only: Major soil Types

Chapter 3: Water Resources Locating and Labelling –

Dams:

- (1) Salal (2) Bhakra Nangal (3) Tehri (4) Rana Pratap Sagar (5) Sardar Sarovar
(6) Hirakud (7) Nagarjuna Sagar (8) Tungabhadra (Along with rivers)

Chapter 4: Agriculture

Identification only

(a) Major areas of Rice and Wheat

(b) Largest / Major producer states of Sugarcane; Tea; Coffee; Rubber; Cotton and Jute

Chapter: 5 Mineral and Energy Resources Minerals: (Identification only)

Minerals (Identification only)

a. Iron Ore mines

- i) Mayurbhanj ii) Durg, iii) Bailadila iv) Bellary v) Kudremukh.

b. Coal Mines

- i) Raniganj ii) Bokaro iii) Talcher iv) Neyveli

c. Oil Fields

- i) Digboi ii) Naharkatia iii) Mumbai High iv) Bassien v) Kalol
vi) Ankaleshwar

Power Plants

(Locating and Labelling only)

a. Thermal

- i) Namrup ii) Singrauli iii) Ramagundam

b. Nuclear

- i) Narora ii) Kakrapara iii) Tarapur iv) Kalpakkam

History - Outline Political Map of India Lesson-3 Nationalism in India – (1918 – 1930) For locating and labelling / Identification

1. Indian National Congress Sessions:

Calcutta (Sep. 1920)

Nagpur (Dec. 1920)

Madras (1927)

2. Important Centres of Indian National Movement

(Non-cooperation and Civil Disobedience Movement)

(i) Champaran (Bihar) - Movement of Indigo Planters

(ii) Kheda (Gujrat) - Peasant Satyagrah

(iii) Ahmedabad (Gujarat) - Cotton Mill Workers Satyagraha

(iv) Amritsar (Punjab) - Jallianwala Bagh Incident

(v) Chauri Chaura (U.P.) - Calling off the Non Cooperation Movement

(vi) Dandi (Gujarat) - Civil Disobedience Movement

B. Prepare an album on The Rise of Nationalism in Europe. The following points should be covered:

- The Role of Philosophers
- The Role of Revolutionaries
- The Role of Bureaucrats

C. Word Search

Solve the puzzle by following your search horizontally and vertically to find the hidden answers.

B	J	U	T	E	Z
H	T	A	N	K	L
U	C	Z	A	I	D
P	O	O	N	A	R
U	C	L	S	T	U
L	F	T	P	O	B
S	E	Z	A	P	B
E	E	Q	K	T	E
S	M	D	L	A	R

- (a) A leguminous crop.
- (b) Known as golden fiber.
- (c) An equatorial crop.
- (d) Its cultivation was initially introduced on Baba Budan Hills.
- (e) Shorts season during the summer months.

D. Complete the following blanks :

Crop	Soil	Climate	Distribution
Rice			
	Black Soil		
			Hills of Darjeeling, Tamil Nadu, Kerala
Maize			
		Moist and humid, rainfall > 200 cm Temperature > 25 degrees	

E. Prepare a presentation on the following topic:

- i) Soil types and distribution
- ii) Forest types and distribution
- iii) Indian Wildlife with division as per IUCN
- iv) Rainwater Harvesting

- (Roll no. 1 to 10)
- (Roll no. 11 to 20)
- (Roll no. 21 to 30)
- (Roll no. 31 onwards)

F. Answer the following value based and HOT questions:

- i) How is regeneration of environment important and useful?
- ii) How did the Earth Summit 1992 concern with environmental and social issues? Explain.
- iii) What are the various reasons for diminishing levels of ground water in the states of India? Could you suggest some measures to improve the situation? Also assign the various problems associated with decreasing levels of ground water.
- iv) What values do we learnt from the rainwater harvesting tradition in some districts of Rajasthan?
- v) Why is India in a unique position to grow almost every possible crop.
- vi) Explain the role of advertisement in popularizing the industrial product among consumers.
- vii) What is agenda 21?
- viii) Enlist the institutional reforms introduced by the government in the interest of the farmers.
- ix) Describe any five traditional methods of rainwater harvesting in different parts of ancient India.
- X) The growth rate in agriculture is decreasing which is an alarming situation". Comment

C. Learn the following syllabus of Unit Test July 2019:

Geography:- Chapter 1- Resources and Development

Chapter 2- Forest and Wildlife

Chapter 3- Water Resources

Chapter 4- Agriculture

Chapter 5- Mineral and Energy Resources

History- Chapter 1- The Rise of Nationalism in Europe

Chapter 2- Nationalism in India

Science

- Do all the NCERT Exemplar questions of chapters completed in class.
- Submit your innovative ideas to solve the problem of locality and country for participating in 'Inspire Award'. It can have picture, videos sketch & other information.
- The idea should be sent to email id – studentdavfatehabad@gmail.com
- Solve the assignment (Multiple choice questions) in the Google form which are available on the mobile app of the school.

https://docs.google.com/forms/d/1he3uV_nRLYit90gQyGekSOyKbmFHeJrmA8J0J2PrBxI/edit?chromeless=1

Project Work:

Students can work individually or in pairs on any of the following topics for making research work. An investigatory project report has to be prepared. The theme for the investigatory project report will be:

Theme: Science, Technology and Innovation for a clean, green and healthy nation.

Subthemes:

- **Health, Hygiene and Sanitation**
- **Waste to wealth**
- **Traditional Knowledge system**
- **Environmental Issues and Concerns**
- **Society, Culture and livelihood**
- **Disaster Management**

Sample Project 1:

Personal hygiene – for not missing out on studies

Objective:

To establish role between personal hygiene and health in everyday life, particularly for students

Methodology

1. Design and develop a questionnaire with key questions related to personal hygiene (handwashing, bathing, using soap, cleanliness – hair, nail, frequency of keeping oneself clean, and the likes)
2. Record number of children absent for a definite period (may be for a month)
3. Assess reasons behind the absence, and identify number absent due to illness
4. Correlate type of illness with parameters of personal hygiene (a common factor among children)
5. Record number of classes, chapters in different subjects missed out by the absentees
6. Record level of personal hygiene followed by the others who has been present all through the study period
7. Create awareness about personal hygiene measures to be taken and the manner in which these are to be adopted

Expected Results

Establish the role of personal hygiene with the missed out studies, signifying importance attached to personal hygiene on day-to-day basis.

Sample project -2 :

A Study on the Role of Multi-Purpose Tree Species (MPTS) in your Locality

Introduction

Multi-purpose tree species refers to the species of plants which have more than one economic/sustenance value. Such species are highly important in the context of achieving the goal of sustainable production and consumption. (For example, bamboo, banana, coconut, jackfruit etc.)

Objectives

The study may be taken with the following objectives –

- To identify and document various available MPTS in a certain locality
- To identify, analyze and document different uses of the available MPTS
- To observe and document different cultural and traditional practices and beliefs that are related to the use and management of these species
- To evaluate the economic as well as socio-cultural benefits of the MPTS
- To find out any management options/approaches needed for maintaining the MPT species along with any threats towards their availability

Methodology

- Selection of the study site/locality
- Transect walk based observation to identify various MPTS available in the study area
- Literature survey and inventorisation of available knowledge for scientific documentation of the species available
- FGD to document various uses of different MPTS available in the locality, associated management and cultural practices, traditional beliefs and norms associated with the MPTS
- Empirically calculate the economic value of the services provided by the MPTS and economic value of the products derived from them
- Observe, analyze and document various socio-cultural benefits of those MPTS

- □ Document any potential threat to the availability of these MPTS
- □ Experimentation for validation of traditional approaches of the MPTS
- □ Experimentation for innovative approaches for value addition, production system management etc.

Expected outcome

This study will help to identify various MPTS available in the specific locality along with various aspects of its uses, potential, benefits, socio-cultural impacts as well as management. Further, the study will also contribute towards identifying the potential threats of these species along with identification and validation of proper management approaches. This may also lead to some innovative approaches for management of these species which can increase their potential for sustainability.

Punjabi

ਯਾਦ ਕਰੋ - ਸਾਹਿਤਕ ਰੰਗ ਪਾਠ - 1, ਮੈ ਕਿਸੇ ਤੋਂ ਘੱਟ ਨਹੀਂ , ਪਾਠ - 2 ਈਅਰਫੋਨ

ਸਾਹਿਤਕ ਕਿਰਨਾਂ - ਕਵਿਤਾ - 1, ਗਉੜੀ ਬੈਰਾਗਿਨ , 3 ਗੁੰਮ ਨੇ ਰਸੋਈ ਵਿੱਚੋਂ

ਸਾਹਿਤਕ ਕਿਰਨਾਂ - ਵਾਰਤਕ ਪਾਠ - 1 ਆਦਤਾਂ ,

ਵਿਆਕਰਨ - ਅਗੇਤਰ - ਪਿਛੇਤਰ , ਮੁਹਾਵਰੇ (ਕ ਤੋਂ ਝ ਤਕ)

ਲੇਖ ਯਾਦ ਕਰੋ ਤੇ ਲਿਖੋ (In Punjabi –B Note Book) - ਮਨ ਜੀਤੈ ਜਗੁ ਜੀਤ , ਨਾਨਕ ਦੁਖੀਆ ਸਭ ਸੰਸਾਰ , ਸਾਡੀਆਂ ਸਮਾਜਿਕ ਬੁਰਾਈਆਂ , ਰਾਸ਼ਟਰ ਨਿਰਮਾਣ ਵਿੱਚ ਇਸਤਰੀ ਦਾ ਯੋਗਦਾਨ , ਨਵੀਂ ਪੀੜ੍ਹੀ ਦੀ ਬਦਲ ਰਹੀ ਦਸ਼ਾ ਤੇ ਦਿਸ਼ਾ , ਸਮਾਜ ਵਿੱਚ ਬਜ਼ੁਰਗਾਂ ਦਾ ਸਥਾਨ , ਮੋਬਾਇਲ ਦੀ ਗੁਲਾਮ ਹੋ ਰਹੀ ਅਜੋਕੀ ਪੀੜ੍ਹੀ |

ਪ੍ਰੋਜੈਕਟ :- ਭੈਣ-ਭਰਾ ਜਾਂ ਮਾਂ - ਧੀ ਦੇ ਰਿਸ਼ਤੇ ਦੇ ਵਿਸ਼ੇ ਨਾਲ ਸੰਬੰਧਿਤ ਇੱਕ ਲੋਕ -ਗੀਤ ਇਕ ਰੰਗਦਾਰ ਸ਼ੀਟ ਤੇ ਲਿਖੋ |