

**JKG INTERNATIONAL SCHOOL**  
**HOLYDAY HOMEWORK (2019-20)**  
**CLASS-X**

**ENGLISH**

1. Write an essay on "My Favourite Destination- South Korea in about 300-500 words on A 4 size sheet.
2. What Measures should I Take to Combat Climate Change". Write an essay on the topic in about 300-500 words.
3. Do two unseen passages in your practice paper. Page number 25,26,27,28
4. Write two complaint letters and two letters to editor in your practice paper . Page number-69,70 and 85,86.
5. Complete two stories in your practice paper. Page number 111 & 112.
6. Do Integrated Exercise on page number 202.

LITERATURE- Write the answers of the questions given below in your practice paper.

1. Lencho was a simple, innocent farmer. Do you agree? Elaborate with examples from the text.
2. What was the policy of apartheid? What were its major effects in South Africa?
3. How did the young seagull overcome his fear of flying?
4. What happened to Tricky ? How was he treated ?
5. Revise Grammar work done in Practice Paper?

**SOCIAL SCIENCE**

1. Who was Frederic Sorrieu?
2. Which two underground societies were formed by Giuseppe Mazzini?
3. What was Mazzini's role in the unification of Italy?
4. Who hosted 'Vienna Congress' in 1815? Analyse the main changes brought by the 'Vienna Treaty'.
5. Why is power sharing desirable?
6. Difference between Federal government and a unitary government?
7. What do you mean by decentralisation?
8. India is a federal country. Explain by giving examples?
9. What is the role of humans in resource development?
10. What is resource planning?
11. What is soil conservation?
12. Describe any three measures of controlling land degradation.
13. What is water scarcity? Mention any four factors responsible for water scarcity.
14. How do Multipurpose projects affect the aquatic life. Explain.
15. What is Commercial Farming. Mentions its major features.
16. Describe any three technological and institutional reforms made in the field of Agriculture in India?
17. The following Research based Project is to be done Roll no. wise on colored /plain A4 sized sheets.  
Scarcity of water in India and its conservation. Water is life. It's vital. It supports the immense diversity of life on Earth. It's a source of food, health and energy. Fresh water makes civilization possible. But fresh water, in turn, isn't possible without a healthy planet — and human actions are putting the healthy planet at risk.

### Roll no. 1-20 TOPIC : Issues related to water scarcity

Write a brief report in 100 – 150 words approximately, on how each of these issues is affecting fresh water supply in our country

- Climate Change
- Deforestation
- Fresh water supply Limit
- Pollution

### Roll no. 21 - 40 TOPIC : Rain Water Harvesting

Read about Rain water harvesting as an ancient Indian method of water conservation. Write its salient features in about 200 words .

### Fun time !!

Watch the following short films( under parental guidance) : • Mother Nature –By Julia Roberts

## SCIENCE

1 Prepare 20 objective type questions( MCQ,Assertion reason,Statement correction,) from Ch-1,6 and 12.

2 Learn Ch 1,6,12 for Assessment 1

3 Prepare a Concept map from any of the Chapter taught in the class

4 Answer the following Questions in Science note book-

1 The colour of  $\text{NO}_2$  and  $\text{PbO}$  formed when Lead nitrate is heated-

a Brown and green      b Brown and yellow

c Brown and colourless      d colourless and yellow

2 On heating Ferrous sulphate crystal one would gets-

a Sweet smell      b Rotten egg smell

c irritating chocking smell      d None of these

3 Atmospheric carbon dioxide ----- to carbohydrate in Photosynthesis.

a oxidised      b reduced

c neutralised      d burn

4 Find formula which is not correct for R

a  $R = w/I^2t$       b  $R = v^2/p$

c  $R = I^2t$       d  $R = P/I^2$

5 Find the following statements are correct or incorrect,if they are incorrect, correct the statement

a Pulmonary veins carry deoxygenated or impure blood to lungs for purification

b Fatty foods becomes rencid due to the process of Hydrogenation

c Displacement reaction occurs in the digestion of food in our body

Directions-(Q6-7) Each of the following questions consists of two statements, one is assertion (A) and the other is reason(R) give answer.

a If both A and R are true and A is the correct explanation of A

b if both A and R are true but R is not a correct explanation of A

c If A is true and R is false

d If A is false but R may be true/ false

6 Assertion- when an iron rod is dipped into a solution of copper sulphate, copper is displaced

Reason- Iron is more reactive than copper

7 Assertion- Fuse wire has high resistivity and low melting point

Reason -Fuse wire is connected wire in series with the line wire of the circuit

8 Draw diagram of Human excretory system and label the following organs which performs following functions-

a form urine            b Long tube collect urine from kidney

c Store urine until it passed out

9 How would you connect three resistors each of resistance 9 ohm so that the equivalent resistance of the combination is a)13.5 ohm b)6ohm

10 a Mention two component of blood

b Trace the movement of oxygenated blood in the body

c Why fish heart is called venous heart?

11 Why are some chemicals and medicines stored in coloured bottles?

12 Resistance of a metal wire of length 1m is 25 ohm. If diameter of wire is 0.2 mm. What will be the resistivity of the metal at constant temperature.

13 What is heating effect of current? Write joule's law of heating.

14 Explain the mode and process of nutrition in amoeba.

15 Leaves of a healthy potted plant were coated with vaseline to block the stomata. Will this plant remain healthy for long? State three reasons for your answer.

## **I.T**

Q1 What is the difference between Router and Repeater?

Q2 What are the advantages of Hybrid Topology over Tree topology?

Q3 What are dumb switches?

Q4 Name some web based Instant Messaging Services.

Q5 How do you send pictures using Hangouts?

Q6 Explain any five rules that we must follow while using Instant Messaging.

Q7 Write any two advantages of network.

Q8 Write a short note on blog.

Q9 What is the purpose of WYSIWYG?

Q10 What is the purpose of e-Reservation?

Q11 Describe the Windows Access Center.

Q12 Explain the type of Tab Stops included in Word.

Q13 What is Indentation?

Q14 How do you create a blank document?

Q15 What are Templates in MS Word?

Q16 Name different types of Alignments.

Q17 Define Paragraph Spacing.

Q18 What are Headers and Footers?

Q19 What is the importance of using paragraphs while writing any report , letter or stories?

Q20 Define Internet.

## **MATHS**

1. Show that any positive even integer is of the form  $3q$ ,  $3q+1$  and  $3q+2$ , where  $q$  is some integer.
2. Show that any positive odd integer is of the form  $4q+1$  and  $4q+3$ , where  $q$  is some whole number.
3. Write the definition of following: rational no, irrational no, prime no, composite no.
4. Find the LCM and HCF of: 15, 75 and 160 by using prime factorization method.
5. If the HCF of two numbers 2520 and 3300 is 20. Find LCM.
6. Find all the zeros of polynomial:  $x^4 - 4x^3 - 2x^2 + 12x - 3$  if two zeros are  $2 \pm \sqrt{3}$ .
7. If zeros of the polynomial:  $3x^2 - ax + 5$  are 2 and  $b$  respectively. Find the value of  $a$  and  $b$ .
8. If the polynomial:  $6x^4 + 8x^3 + 17x^2 + 21x + 7$  is divided by another polynomial  $3x^2 + 4x + 1$ . The remainder comes out to be  $ax + b$ . find the value of  $a$  and  $b$ .
9. Find the value of  $a$  and  $b$  if  $x^4 + x^3 + 8x^2 + ax + b$  is divided by  $x^2 + 1$  then remainder comes to be  $3x + 3$ .
10. If  $\alpha$  and  $\beta$  are the zeros of quadratic polynomial  $x^2 - 5x + K$  such that  $\alpha - \beta = 1$ . Find the value of  $K$ .
11. If the equation  $(1 + m^2)x^2 + 2mcx + c^2 - a^2 = 0$  has equal roots. Show that  $c^2 = a^2 (1+m^2)$ .
12. Solve the following equation for 'x'  $-9x^2(a+b)x + (2a^2+5ab+2b^2) = 0$
13.  $1/a+1/b+1/x=1/(a+b+x)$ ,  $a \neq 0, b \neq 0, x \neq 0, x \neq -(a+b)$   $x \neq 0, x \neq -(a+b)$ .
14. Find 'k' so that  $(k - 12) x^2 + 2 (k - 12) x + 2 = 0$  has equal roots. ( $k \neq 12$ ).
15. Find the value of  $x$  if  $(x + 1) (x + 2) (x + 3) (x + 4) = 120$ .
16. Find the value of  $t$  for which the following system of equation has exactly one solution.  
 $7x - 5y - 4 = 0$  and  $14x + py + 4 = 0$
17. Find the value of  $a$  and  $b$  for infinite number of solutions  
 $2x + 3y = 7$  and  $(a-b)x + (a + b)y = 3a + b - 2$ .
18. Find the value of  $K$  for which the following linear equation has no solution:  
 $X + 2y = 3$  and  $(K-1)X + (K+ 1) y = K + 2$
19. Solve for  $x$  and  $y$ .  $a(x + y) + b(x - y) = a^2 - ab + b^2$   
 $a(x + y) - b(x - y) = a^2 + ab + b^2$
20. Solve for  $x$  and  $y$ .  $5/(x + y) + 2/(x - y) = -1$   
 $15/(x + y) + 7/(x - y) = 10$

## हिन्दी

- प्र. 1. सेनानी न होते हुए भी चश्मे वाले को लोग कैप्टन क्यों कहते थे?
- प्र. 2. पान वाले का रेखाचित्र प्रस्तुत कीजिए।
- प्र. 3. जब तक हालदार साहब ने कैप्टन को साक्षात् देखा नहीं था तब तक उनके मानस पटल पर  
उसका कौन सा चित्र रहा होगा, अपनी कल्पना से लिखिए।
- प्र. 4. "वह लँगड़ा क्या जाएगा फौज में। पागल है पागल।" कैप्टन के प्रति पान वाले की इस टिप्पणी  
पर अपनी प्रतिक्रिया लिखिए।
- प्र. 5. आप अपने इलाके के चौराहे पर किस व्यक्ति की मूर्ति स्थापित करवाना चाहेंगे और क्यों?
- प्र. 6. खेतीबारी से जुड़े बालगोबिन भगत अपनी किन चारित्रिक विशेषताओं के कारन साधु कहलाते थे?
- प्र. 7. भगत की पुत्रवधु उन्हें अकेले क्यों नहीं छोड़ना चाहती थी।
- प्र. 8. भगत ने अपने बेटे की मृत्यु पर अपनी भावनाएं किस प्रकार व्यक्त कीं?
- प्र. 9. पाठ के आधार पर बताएं कि बालगोबिन भगत की कबीर पर श्रद्धा किन-किन रूपों में प्रकट हुई ?
- प्र. 10. बालगोबिन भगत की दिनचर्या लोगों के अचरज का कारन क्यों बनी थी?
- प्र. 11. गोपियों द्वारा उद्धव को भाग्यवान कहने में क्या व्यंग्य निहित है?
- प्र. 12. गोपियों ने किन-किन उदाहरणों के माध्यम से उद्धव को उलाहने दिए हैं?
- प्र. 13. गोपियों के अनुसार राजा का धर्म क्या होना चाहिए?
- प्र. 14. कृष्ण के प्रति अपने अनन्य प्रेम को गोपियों ने किस प्रकार अभिव्यक्त किया है?