PM SHRI KV NO.1 JHANSI CANTT.

Holiday Homework

Subject: Social Science Class: IX (2025-26)

Subject Enrichment Activity/Project work (Interdisciplinary) on Disaster Management (5 marks)

Every student must undertake one project on Disaster Management.

Objectives: The main objectives of giving project work on Disaster Management to the students are to:

- To create awareness in them about different disasters, their consequences and management
- To prepare them in advance to face such situations
- To ensure their participation in disaster risk reduction plans
- To enable them to create awareness and preparedness among the community.
- The project work helps in enhancing the Life Skills of the students.
- Various forms of art must be integrated in the project work.

The distribution of marks over different rubrics relating to Project Work is as follows:

Guidelines to prepare the Project:

1. You may take support from various local authorities and organisations like the Disaster Management Authorities, Relief, Rehabilitation and the Disaster Management Departments of the States, Office of the District Magistrate/ Deputy Commissioners, Fire Service, Police, Civil Defence etc.

2. Projects and models prepared should be made from eco-friendly products without incurring too much expenditure.

3. The Project Report can be handwritten or digital.

4. The Project work can culminate in the form of Power Point Presentation/ Exhibition/ Skit/ albums/ files/ song and dance or culture show /story telling/debate/panel discussion, paper presentation etc.

SUBJECT: - MATHEMATICS

PART-A(PRACTICE QUESTIONS)

CHAPTER-1
NUMBER SYSTEMS

Q.1	Solve all the examples of Chapter 1 and Chapter 2 in theHH.W. note book.
Q.2	Solve the Practice Questions of Chapter 1 provided you in your HH.W. note book.
Q.3	Solve the Practice Questions of Chapter 2 provided you in your HH.W. note book.

PRACTICE QUESTIONS CHAPTER 1 NUMBER SYSTEMS

Q.1	Represent on the number line.
Q.2	Represent on the number line.
Q.3	Represent on the number line.
Q.4	Find 6 rational numbers between and .
Q.5	Find 3 irrational numbers between and .
Q.6	Find 4 irrational numbers between and .
Q.7	Find the value of 1.9999….. in the form of .
Q.8	Find the value of 2. - 0. .
Q.9	If = a + b , find the value of a and b.
Q.10	Simplify the expression (4) (3)
Q.11	Simplify $(25)^{1/3} \times (5)^{1/3}$
Q.12	If $(5)^{x-3} \times (3)^{2x-8} = 225$, then find the value of x.
Q.13	Find three rational numbers between 10 and 12.
Q.14	Express 32.12 in the form of .
Q.15	Find the sum of 2. and 4. .
Q.16	Find the value of , if 2.236.
Q.17	Find the value of x, if $2^{7x} \div 2^{2x} =$
Q.18	If a and b are rational numbers and = a – b , find the values of a and b.
Q.19	Find the values of a and b, if - = a + b
Q.20	If a = and b = , find the values of the following : (i) $a^2 + b^2$ (ii) $a^3 + b^3$

PRACTICE QUESTIONS CHAPTER 2 POLYNOMIALS

Q.1	Find the coefficient of x^2 in the following polynomials: (i) $(x-4)(x-4)$ (ii) $1-x^2-x^3+2x^7$ (iii) $(x+4)(x+4)(x+4)$ (iv) $(2x-5)(2x^2-3x+1)$ (v) $(3x^2+2x-4)(x^2-3x-2)$
Q.2	Find the degree of the following polynomials : (i) (ii) $1-x^2-x^3+2x^7$ (iii) $(x-1)(x+1)$ (iv) $4x^4+0.x^3+0.x^5+5x+7$ (v) $2x+y-3$
Q.3	Identify the types of following polynomials on the basis of terms : (i) $20y^3+3y+8$ (ii) 4 (iii) x^2+5x
Q.4	Identify the types of following polynomials on the basis of their degree : (i)5 (ii) $2x-3$ (iii) $2t^3-3t^2+5t-4$ (iv) $3y^2-4x+5$ (v)$2x^4-5x^3+4x^2-3x+2$
Q.5	Give an example of a polynomial, which is (i) Monomial of degree 1 (ii) Binomial of degree 22 (iii) Trinomial of degree 5
Q.6	If $f(t)=4t^2-3t+6$, find (i) f(4). (ii) f(-5).
Q.7	How many zeroes does a cubic polynomial have?
Q.8	How many zeroes does a zero polynomial have?
Q.9	What is the zero of the polynomial $p(x)=a^2x$, $a \neq 0$?
Q.10	Find the zero of the following polynomials : (i)$p(x)=4-3x$ (ii) $p(t)=2t-$ (iii) $q(y)=2y-$ (iv) $r(z)=$ - 3
Q.11	If $x=2$ and $x=0$ are zeroes of the polynomial $2x^3-5x^2+ax+b$, find the values of a and b.

ASSERTION REASONING QUESTIONS)

DIRECTION: In the following questions, a statement of assertion (A)is followed by a statement of reason (R). Mark the correct choice as:

a. Bothassertion(A)andreason(R)aretrueandreason(R)isthecorrectexplanation of assertion(A).

Activity 1

b. Both assertion(A) and reason(R) are true but reason(R) is not the correct explanation of assertion(A).

c. Assertion(A) is true but reason(R) is false.

(d)Assertion(A) is false but reason(R) is true.

1. **Assertion:** 5 is a rational number.
Reason: The square roots of all positive integers are irrationals.

2.**Assertion:** 7 is an irrational number.
Reason: A number is called irrational, if it cannot be written in the form p/q, where p and q are integers and $q \neq 0$.

3. **Assertion:** 0.329 is a terminating decimal.
Reason: A decimal in which a digit or a set of digits is repeated periodically, is called a repeating, or a recurring, decimal.

4. **Assertion:** 7875=73
Reason: If ***a*** be any real number and ***p*** and ***q*** are rational numbers, then
apaq=ap+q

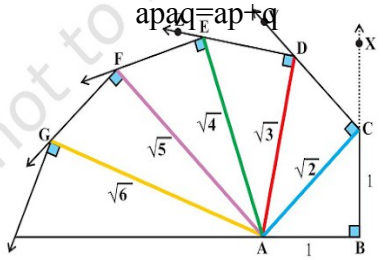


Fig. 1

PART-B(LAB ACTIVITY)

Complete given activities in LAB MANUAL.

Constructing the "Square Root Spiral"

NOTE:

(i) The above practical is to be written from the last page of this PDF except the figures. You will draw your own spiral.

(ii) It is mandatory to fill the observation otherwise practical will not be considered as complete.

PART-C (ART INTEGRATED PROJECT)

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SUB- SCIENCE

1. Prepare a project based on the topic – "Natural Resources".

2. Complete the practical as per the list.

3. Explore ideas to participate in Science Exhibition, INSPIRE AWARD and NCSC (National Children Science Congress).

4. Write the functions and draw labelled diagrams of the following cell organelles –

Mitochondria,

Golgi Apparatus,

Endoplasmic reticulum,

Chloroplast and

Nucleus.

5. Revise Ch 1 and 5 for Class test.

SUB - English

NOTE:- ALL THESE QUESTIONS WILL BE WRITTEN IN ENGLISH NOTEBOOK

Q.1. Write all 4 formal letters thematically aligned with KVS study material.

1) Letter to Editor
2) Letter of Complain
3) Letter of Enquiry
4) Letter of placing order

Q.2. Solve ONLY READING and GRAMMAR Portions from 4sample papers.

Q 3. You have joined a Social Service group in your vacations where you taught few underprivileged children of society, understood their struggles of life and realised a will for more learning among your learners. Write a diary entry expressing all your emotions ,compassion and satisfaction on this.

Q 4. Write a factual description of your role model .

Q 5. "Criticism can turn in qualities".

Write an interesting, meaningful story with a title for this phrase.

Q.6. Write all poetic and Literary devices given .

SUB – SST

Learn Chapters

1) India- Size and Location.

2) What is Democracy? Why Democracy?

3) The Story of Palampur

4) The French Revolution

SUB-HINDI

1) दो बैलों की कथा एवं ल्हासा की ओर पाठ का सार अपने शब्दों में लिखो।
2) किसान जीवनवाले समसज में पशु और मनुष्य के आपसी संबंधों को कहानी में किस तरह व्यक्त किया गया है?
3) समास की परिभाषा एवं भेद उदाहरण सहित लिखो।
4) अर्थ की दृष्टि वाक्य भेद लिखो।
5) आपके विद्यालय के पुस्तकालय में नई पुस्तकें मँगवाने के लिए अपने विद्यालय के प्राचार्य को पत्र लिखो।
6) 'हम सतर्क दो देश सुरक्षित' विषय पर लगभग 150 शब्दों में अनुच्छेद लिखो।
7) प्रतिदिन हिंदी का समाचार पत्र पढ़ो।

उपर्युक्त समस्त गृहकार्य A4 शीट पर करना है

SUB - Artificial Intelligence

1. What is Artificial Intelligence? Explain in your own words with one real-life example.

2. List and describe any three areas where AI is used in our daily lives.

3. What is the difference between Artificial Intelligence and Human Intelligence?

4. Explain the difference between Narrow AI and General AI with one example of each.

5. What is Machine Learning? How is it related to Artificial Intelligence?

6. How does AI help in voice assistants like Siri, Alexa, or Google Assistant?

7. Imagine a world without AI. Write a short paragraph on how life would be different.

8. Name any two AI-powered applications or tools you use in school or at home. How do they help you?

9. Design your own AI-based gadget or robot. What would it do? What kind of AI features would it use? (Draw or describe)

10. Do you think AI can replace teachers in the future? Give your opinion with reasons.
