KENDRIYA VIDYALAYA JAMALPUR

AUTUMN BREAK HOME WORK

Class XI

Subject - English.

1.Design a poster in not more than 50 words about the need for Regular Exercise. You may use slogan.

2. The story "We're Not Afraid to Die" vividly shows that courage and bravery are the best tools in the face of adversity, Comment.

3. Do you think Carter was justified in removing the hardened ritual resin deposits on Tut's mummy? Why/Why not?

4. Although the chapter Mother's Day is the story of Mrs. Pearson, Yet it is universal in character justified.

5. Solve any two unseen passage.

6. Complete your notebook upto October, according to splitup syllabus.

Holiday HW of Chemistry for class XI for Autumn Break

1 Write the following terms

a. Le Chateliar's Principle	b. Hess Law of constant summation
c. First law of thermodynamics	d. Common Ion Effect

- e. Solubility product constant f. Buffer solution
- 2. Find Bond order, magnetic behaviour of

a.
$$O_2^{2+}$$
, O_2 , O^{2-} , O^{--} b. F_2 , N_2 , B_2

4-Derive Relationship

a. $\Delta H = \Delta U + \Delta ngRT$ b. $\Delta G^{\circ} = \Delta H^{\circ} + T\Delta S^{\circ}$ c. $Kp = KcRT^{\wedge}\Delta n$

5-Write one application of

a. Common Ion Effect b. Buffer solution

c. Solubility product	d. Sponteinity
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6-Discuss ionisation enthalpy of N and O, Boron and Be, Mg and Al

7-Give reason

- a. HF, H₂O, C₂H₅OH show H-Bonding
- b. CHCl3 is polar but CCl4 is Non polar molecule
- c. SF₄ shows see-saw geometry but SF₆ shows octahedral geometry.
- d. NH₃ shows trigonal pyramidal but H₂O angular shape.

8-Give one example of

- a. Physical Equilibrium
- b. Heterogeneous Equilibrium
- c. Common Ion Effect
- d. One lab reagent which is used as oxidising Agent.
- e. One reagent which is used as Reducing Agent.

पीएम श्री केंद्रीय विद्यालय जमालपुर शारदीय अवकाश गृहकार्य सत्र:2023-24 विषयः हिंदी वर्ग:11th प्रश्न1: पठित पाठ के आधार पर मीरा के भक्ति भाव का वर्णन करें। प्रश्न2:नसीरुद्दीनसाह के शब्द-चित्र लेख को उल्लेखित करें। प्रश्न3:जनसंचार माध्यम क्या है? प्रश्न4: कुमार गन्धर्व ने लता की गायिकी को बेजोड़ कहा।आप इस कथन से कहाँ तक सहमत हैऔर क्यों। Autumn Break Holiday Homework

Class Xl

Mathematics

1. Prepare a formula chart of straight line and conical section .

- 2. Solve the complete exercise questions of Straight line.
- 3. Write down the five applications of conical section formulas in our daily lives.
- 4. Write mathematics Activities related to Geometry on your practical Notebook.
- 5. Complete your mathematics Activity Notebook.

Sub - Computer Science

- 1. What is string? Explain with example?
- 2. Explain all operation of string.
- 3. What is String slice? Explain with example.
- 4. Explain any five string functions.

Sub - Informatics Practices.

- 1. What is database?
- 2. Explain create command.
- 3. Explain Alter Command.
- 4. Explain all DML commands.
- 5. What is difference between delete and drop command.

KENDRIYA VIDYALAYA JAMALPUR CLASS – 11th (2023 – 24)

AUTUMN BREAK HOMEWORK

- 1. Show Newton's 2nd law of motion is the real law.
- 2. State work energy theorem. Prove it.
- 3. State parallelogram law of vector addition. Two vectors **A** and **B**are inclined to each other at an angle α . Using parallelogram law of vector addition, find the magnitude and direction of their resultant.
- 4. Define projectile. Show the path of projectile is parabolic. Derive the expression for maximum height, time of flight and horizontal range.
- 5. Define centripetal acceleration. Derive an expression for centripetal acceleration of a particle moving with uniform speed v along a circular path of radius r.
- 6. Define angle of friction and angle of repose. Establish a relation between them.
- 7. Briefly explain how is a vehicle able to go round a level curved track. Determine the maximum speed with which the vehicle can negotiate this curved track safely.

- 8. What do you mean by banking of a curved road? Determine the angle of banking so as to minimize the wear and tear of the tyres of a car negotiating a banked curved.
- 9. Prove that in an elastic one dimensional collision between two bodies, the relative velocity of approach before collision is equal to the relative velocity of separation after the collision.