

**KERALA PUBLIC SCHOOLS  
ACADEMIC YEAR 2020-21  
FIRST TERM – ASSIGNMENT 1**



**CLASS : XI**

**Instructions:**

**Assignment to be done only in the notebook.**

**A clear photograph of each page subject wise to be taken and saved in one's respective Google Drive.**

**The saved assignments to be then uploaded on one's respective Google Classroom.**

**Note: Uploading assignments from the Google Drive to Google Classroom is faster than uploading it directly from the phone memory or laptop.**

**The Google Classroom link shall be shared by the class teacher on the dates mentioned for submission of each assignment.**

**Assignments will not be accepted after the due date.**

SUBJECT	ASSIGNMENT 1 (10 MARKS)
<b>ENG LANG</b>	<p><b>I.</b> In the following items, sentence A is complete but sentence B is not. Complete sentence B making it as similar in meaning as possible to sentence A: (05)</p> <p>(i) Save for Ronnie's courage, the battalion would have perished. (Were.....)</p> <p>(ii) Janet feels that I am expert in creative writing. (Begin: The feeling.....)</p> <p>(iii) Everyone knows Milton? (End: .....?)</p> <p>(iv) I know you. (Change to negative sentence.)</p> <p>(v) In the seventies, traffic conditions weren't as bad as they are now. (Begin: Now.....)</p> <p><b>II. Fill in the blanks with appropriate words:</b> (05)</p> <p>(i) He has reconciled himself _____ his lot.</p> <p>(ii) The two brothers were reconciled _____ each other.</p> <p>(iii) Lions abound _____ the forests of Gir.</p> <p>(iv) He is notorious _____ gambling.</p> <p>(v) I am alive _____ the seriousness of the situation</p>
<b>ENG LIT</b>	<p><b>Prospero: "Be collected. No more amazement. Tell your piteous heart There's no harm done."</b> (10)</p> <p>1. What does the listener implore Prospero? (1½)</p> <p>2. Explain: "...Have sunk sea within the earth or ere it should the good ship so have swallowed, and the fraughting souls within her." (2)</p> <p>3. What is the condition of the horizon at the commencement of the scene? (2)</p> <p>4. How can it be proved that Miranda's heart is piteous? (2)</p> <p>5. How does Prospero console his daughter in light of the shipwreck? (1)</p> <p>6. Give the meanings: welkin, fraughting, allay. (1½)</p>
<b>HINDI LANG</b>	<p>प्रश्न 1. निम्नलिखित वाक्यों को शुद्ध करें:- (2)</p> <p>क. वह गुणवान महिला है। ख. राम बहुत विदुषी बालक है।</p> <p>प्रश्न 2. निम्नलिखित मुहावरों से वाक्य बनाएँ:- (2)</p> <p>क. लाल - पीला होना - ख. नाकों चने चबवाना -</p>

<b>HINDI LIT</b>	<p>प्रश्न 1:- "पुत्र - प्रेम" कहानी के आधार पर चैतन्यदास का चरित्र - चित्रण करें। (2)</p> <p>प्रश्न 2:- तपेश्वरी कौन थी? वह प्रभुदास को कहाँ भोजना चाहती थी और क्यों? (2)</p> <p>प्रश्न 3. युवक ने गद्गद स्वर में क्या कहा? (2)</p>
<b>MATHS</b>	<p>Q 1) Prove that the equation <math>x^2 + px - 1 = 0</math> has real and distinct roots for real values of p. (2)</p> <p>Q 2) If one of the roots of <math>3x^2 - 7px + 10p = 0</math> be 5, find p and also the other root. (2)</p> <p>Q 3) If <math>\alpha</math> and <math>\beta</math> are roots of <math>ax^2 + bx + c = 0</math>, form an equation whose roots are <math>\frac{1}{\alpha}</math> and <math>\frac{1}{\beta}</math>. (2)</p> <p>Q 4) If the equations <math>3x^2 + mx + 1 = 0</math> and <math>2x^2 + nx + 1 = 0</math> have a common root, show that <math>2m^2 + 3n^2 - 5mn + 1 = 0</math>. (2)</p> <p>Q 5) Find k if one of the roots of the equation <math>k(x - 1)^2 = 5x - 7</math> is double the other. (2)</p>
<b>PHY</b>	<p><b>NEWTONS LAW OF MOTION</b></p> <p>Q1. Discuss apparent weight of a person in a lift /elevator .</p> <p>Q2. Write and explain law of conservation of linear momentum .Give two examples based on this conservation .</p> <p>Q3. A 10 g moving body is acted upon by a force of 10 N for 3 micro second .Compute the impulse and the change in velocity of the body .</p> <p>Q4. The strings of a parachute can bear a maximum accelertation can a person of 96 Kg descend by means of this parachute ?</p> <p>Q5. A 20g balls hits a wall at <math>45^0</math> angle with a speed of 15m/s and rebounds perpendicular to the direction of incidence with same speed .Find the impulse received by the ball.</p>
<b>CHEM</b>	<p>1. Elements X and Y combine to form two compounds XY and X<sub>2</sub>Y. Find the atomic weight of X and Y, if the weight of 0.1 moles of XY is 10g and 0.05 moles of X<sub>2</sub>Y is 9g</p> <p>(a) 30, 20 (b) 80, 20 (c) 60, 40 (d) 20, 30</p> <p>2. Which one will have maximum numbers of water molecules?</p> <p>(a) 18 molecules of water (b) 1.8 grams of water (c) 18 grams of water (d) 18 moles of water</p> <p>3. The number of atoms present in 0.1 moles of a triatomic gas is</p> <p>(a) <math>1.806 \times 10^{23}</math> (b) <math>1.806 \times 10^{22}</math> (c) <math>3.600 \times 10^{23}</math> (d) <math>6.026 \times 10^{22}</math></p> <p>4. Find the volume of O<sub>2</sub> required to burn 1 L of propane completely, measured at 0°C temperature and 1 atm pressure</p> <p>(a) 10 L (b) 7 L (c) 6 L (d) 5 L</p> <p>5. A gas X has Cp and Cv ratio as 1.4, at NTP 11.2 L of gas X will contain___ number of atoms</p> <p>(a) <math>1.2 \times 10^{23}</math> (b) <math>3.01 \times 10^{23}</math></p>

	<p>(c) <math>2.01 \times 10^{23}</math>  (d) <math>6.02 \times 10^{23}</math></p> <p>6. Which of the species is not paramagnetic?  (a) <math>As^+</math>  (b) <math>Cl^-</math>  (c) <math>Ne^{2+}</math>  (d) <math>Be^+</math></p> <p>7. Pressure has the same dimension as ____  (a) energy per unit volume  (b) energy  (c) force per unit volume  (d) force</p> <p>8. A container has an equal mass of <math>H_2</math>, <math>O_2</math> and <math>CH_4</math> at <math>27^\circ C</math>, the ratio of their volume is  (a) 16:8:1  (b) 8:1:2  (c) 16:1:2  (d) 8:16:1</p> <p>9. There are two chlorides of sulphur <math>S_2Cl_2</math> and <math>SCl_2</math>. What is the equivalent mass of <math>SCl_2</math>  (a) 64.8 g/mole  (b) 32 g/mole  (c) 16 g/mole  (d) 8 g/mole</p> <p>10. Boron exists as two stable isotopes; <math>^{10}B(19\%)</math> and <math>^{11}B(81\%)</math>. Find out the avg. atomic weight of boron in the periodic table  (a) 10.0  (b) 11.2  (c) 10.2  (d) 10.8</p>
<b>BIO</b>	<p><b>Answer All The Questions:</b></p> <ol style="list-style-type: none"> <li>Name three domains of life and give one distinguishing feature of each. (3)</li> <li>Give any two general characteristics of Dinoflagellates. (2)</li> <li>Give the classification of Man (1)</li> <li>Give one difference between gram +ve and gram - ve bacteria. (1)</li> <li>Differentiate between racemose and cymose inflorescence. (1)</li> <li>Draw the schematic representation of 5 Kingdom Classification. (2)</li> </ol>
<b>POL SCIENCE</b>	<p><b>I. Answer The Following Questions In Brief:</b> (2x 5=10)</p> <ol style="list-style-type: none"> <li>Mention any four dimensions or parts of contemporary political science.</li> <li>What are the two parts of Public Administration discussed by Walkert?</li> <li>What are the four essential elements of State ?</li> <li>Mention any two differences between State and Association.</li> <li>Mention any four differences State and Society.</li> </ol>
<b>GEOG</b>	<p><b>Answer the following questions:</b></p> <ol style="list-style-type: none"> <li>Describe the Nebular Hypothesis of Laplace regarding the origin of the Earth. (3)</li> <li>Describe the Big Bang Theory regarding the origin of the universe. (2)</li> <li>What do you mean by Shadow Zone? What is its significance? (3)</li> <li>Write a short note on the earth's crust. (2)</li> </ol>
<b>COMP</b>	<ol style="list-style-type: none"> <li>Convert the decimal number 22.25 to binary. (2)</li> <li>Convert the binary number 1010100.011 to decimal. (2)</li> <li>What are the differences between binary, decimal and hexadecimal number</li> </ol>

	<p>System? (2)</p> <p>4. Predict the output-class Mult (2)</p> <pre> class Mult { public static void main(String args[]) { int i, j; for ( i = 0, j=10; i&lt;j; i++, j --) { System.out.println(" i and j: " + i + " " + j); } } } </pre> <p>5. Predict the output- (2)</p> <pre> int X [ ] = { 1, 2, 3, 4, 5}; for (int i = 0; i &lt; 5; i++) { System.out.println( X[i++] ); } </pre>
<b>ECO</b>	<p>Q.1 Give two differences between microeconomics and macroeconomic. (2)</p> <p>Q.2 Explain the main virtues of the 'growth- oriented' definition. (2)</p> <p>Q.3 What is meant by production? (2)</p> <p>Q.4 Explain the four phases of Business/Trade Cycle. With diagram. (2)</p> <p>Q.5 Distinguish between nominal value and real value. (2)</p>
<b>ACC</b>	<p>Q1 Define the following terms briefly and give one example in each (2.5)</p> <ol style="list-style-type: none"> <li>Intangible Assets</li> <li>Contingent Liability</li> <li>Transaction</li> <li>Revenue expenditure treated as capital expenditure</li> <li>Capital profit</li> </ol> <p>Q2 Pass necessary Journal Entries for the following transactions (5)</p> <ol style="list-style-type: none"> <li>Introduced Rs 5,00,000 into the business, out of which Rs 1,00,000 deposited into the bank</li> <li>Paid insurance premium Rs 5,000 by cheque.</li> <li>Purchased goods from Dilraj Rs 40,000 at 20% trade discount and 5% cash discount. Paid entire amount in cash. CGST 6% SGST 6%.</li> <li>An amount of Rs 1,000 due from Rakesh turned bad.</li> <li>Took a loan from bank Rs 20,000.</li> </ol> <p>Q3 Answer the following questions briefly (2.5)</p> <ol style="list-style-type: none"> <li>The amount earlier off as bad, now received shall be credited to which account?</li> <li>The gradual and permanent fall in the value of assets is called_____.</li> <li>State the Accounting Equation.</li> <li>Output GST collected is a _____ for the business.(Asset/ Expense/ Income/ Liability)</li> <li>Goods distributed as free samples are debited to which account?</li> </ol>
<b>COMM</b>	<p>Q1. Define profession. Enumerate four features of profession? (5)</p> <p>Q2. Explain the economic and social objectives of business. (5)</p>