# Krishnagar Academy

### PROJECT WORK FOR CLASS IX, CLASS X & CLASS XII 2020-21

## Instructions for Project Work (Class IX, Class X and Class XII):

- Answers must be written in the Project Copy.
- The copies will be submitted by the guardian to the respective teachers on the specified date.

#### PROJECT WORK FOR CLASS IX

| NAME OF<br>THE<br>SUBJECT | NAME OF THE TOPIC   |
|---------------------------|---|
| English-I                 | Writing an original short story   |
| English-II                | Explain the transformation of Jane Thompson from a selfish woman to selfless and affectionate motherly figure in the story An Angel in Disguise by T.S. Arthur.   |
|                           | Bengali: 'গিল্লি' গল্পটিরঅন্যএকটিনামদাও।কেনঐরকমনামদিলেতাগল্পটিবিশ্লেষণক   |
| 2nd Lang                  | রেবুঝিয়েদাও।(কমবিশী ৪০০টি শব্দ)  |
|                           | Hindi:  |
|                           | 'नेताजीकाचश्मा 'नामककहानीकाउद्देश्यक्याहै।  |
|                           | 400 शब्दोंमेंलिखिए।   |
| Mathematics               | Draw a circle of radius r on a $1/2$ cm graph paper and then on a 2mm graph paper. Estimate the area enclosed in each case by actually counting the squares. Now try out with circles of different radii. Establish the pattern, if any, between the two observed values and the theoretical values ( area = $\pi r^2$ ). Any modification? |
| Physics                   | To find the value of acceleration due to gravity and to plot the graph of Lvs T <sup>2</sup> .  |
| Chemistry                 | Action of dilute sulphuric acid on the following substances. (warm if necessary)  (a) a metal  (b) a carbonate  (c) a sulphide  (d) a sulphite  Make observations, identify the gas evolved and make deductions.  |
| Biology                   | Examination, Identification and Study of a cross-pollinated flower.   |
| Commercial<br>Studies     | Assignment. Q. 3. Discuss the Objectives of Accounting. Q. 4 Discuss the functions of Commercial Bank.  |
| History&<br>Civics        | Highlight the civic issues of your locality and what are the suggestions you would offer to address them.   |
| Geography                 | Assignment Meteorological instruments and their uses  |
| Computer<br>Application   | Assignment 2: Write a program that simulates a simple dice game. The game is played as follows: Roll a six-sided die. If you roll a 1, 2 or a 3, the game is over. If you roll a 4, 5, or 6, you win that many rupees (₹4, ₹5, or ₹6), and then roll  |

|             | again. With each additional roll, you have the chance to win more money, or you might roll a game-ending 1, 2, or 3, at which time the game is over and you keep whatever winnings you have accumulated. |
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|             | Project no. 1  |
|             | Topic- Identify 100 consumers of major brands of edible oils in a  |
|             | locality/ area where you live. Draw up the pattern of their monthly  |
|             | expenditure on this product and compare it with the other  |
|             | household expenditure. Make a presentation of your findings in   |
| Economics   | class.   |
| Application | Project no-2   |
|             | Topic- Identify the major brands of bathing soaps that are available   |
|             | in the market in your area. Select a sample of 10 shops/ department  |
|             | stores that sell these brands and collect the sales of these brands  |
|             | over a period of one week at these shops. Identify the brands that   |
|             | sell the most and make a presentation for your class.  |
| Commercial  | Assignment   |
| Application | Q.3. Discuss the need and relevance of Accounting.   |
|             | Q.4. Discuss the interpersonal skills required for effective   |
|             | communication.   |

# PROJECT WORK FOR CLASS X

| NAME OF              |  |
|----------------------|--|
| THE                  | NAME OF THE TOPIC  |
| SUBJECT<br>English I |  |
| English-I English-II | Assignment 2: Summary of the short story, "An angel in disguise". (350 words) Assignment 3: To write the socio-historical background of the poem "After Blenheim" (350 words).   |
|                      | Bengali:   |
|                      | মানিকবন্দ্যোপাধ্যায়ের 'অসহযোগী' গল্পেবাবাওছেলে,দুজনাইদুজনারঅসহযোগী–   |
|                      | গল্পটিবিশ্লেষণকরেসেকখাবুঝিয়েদাও।(কমবিশী ৪০০টি শব্দ)   |
| 2nd Lang             | Hindi:   |
|                      | यशपालजी द्वारा रचित 'महयज्ञ का पुरस्कार' कहानी का अपनी ओर से एक  |
|                      | अलग शीर्ष कदीजिये तथा आपने यह शीर्षकक्योंदि याइस की व्याख्या की  |
|                      | जिए।(400 शब्दों में)   |
| Mathematics          | Take a square sheet of paper of side 10 cm. Foursmall squares are to be cut from the corners of the square sheet and then the paper folded at the cuts to form an open box. What should be the size of the squares cut so that the volume of the openbox is maximum?   |
| Physics              | To verify the laws of refraction by using a rectangular glass slab and hence to determine the refractive index of glass.   |
| Chemistry            | Supply a solution of a dilute acid and alkali.  Determine which is acidic and which is basic, giving two tests for each.   |
| Biology              | Identification of the internal structure of the Ear and Eye  |
| Commercial           | Q. 3. Explain the various modules in an E R P System.  |
| Studies              | Q.4. Discuss the various functions of Central Bank of India.   |
| History& Civics      |  |
| Geography            |  |
| Computer Application | <ol> <li>Write Java statements for the following</li> <li>To display the size of the last word in the given string</li> <li>To check which of the 2 strings is longest.</li> <li>To find a new string after joining the first 3 characters and last characters of thestring.</li> <li>Toconvert thefull stringtocapital letters.</li> <li>Toreplace alltheappearances of "Kumar" to "Sharma".</li> </ol>   |
|                      | <ul> <li>II. Write output forthe following</li> <li>1. Strings= "APARNA"; System.out.println(s.replace(s.charAt(0), 'O')); System.out.println(s.substring(0,2)+s.substring(s.length()-2));</li> <li>2. Strings="10ICSE", s1="20-20Match"; System.out.println(s.substring(0,2)+s1.subtring(3,5)); System.out.println(Integer.parseInt(s.substring(0,2))+Integer.parseInt(s1.subtring(3,5))); System.out.println(s.charAt(4)+13);</li> </ul>   |
|                      | <ul> <li>III. Write Java Programs</li> <li>1. Writea program to find and displaythepotential of the string.</li> <li>Thepotential of a word is found by adding the encrypted value of the alphabets. Example: KITE</li> <li>Potential =11 +9 +20 +5 =45</li> <li>2. Writea program to input the string, first convert it touppercase and then encrypt itasfollows.</li> <li>AC,BD,XZ,YA,ZB</li> <li>02, 13, 79, 80, 91</li> <li>Ex:Input: 15AUGUST1947</li> <li>Output: 37 CWIWUV3169</li> </ul> |
| Economics            | 1. Develop a hypothetical table of information for coffee that shows quantity  |

| Application            | demanded at various prices and supply of coffee at these prices.Draw a demand curve and supply curve and show an equilibrium price at which market is cleared of its supplies.  2. Make a list of products for which you think demand is price inelastic and price elastic.Specify the reasons you may think relevant for your analysis. |
|------------------------|--|
| Commercial Application | Q.3. Discuss the functions of Central Bank of India. Q.4.Discuss the functions of Human Resource Management.   |

# PROJECT WORK FOR CLASS XII

| NAME OF THE<br>SUBJECT | NAME OF THE TOPIC  |
|------------------------|--|
| English-I              | Assignment 2: A passage will be read out followed by five questions. Students will have to write the answers of the questions after hearing the passage attentively. Assignment 3: Writing Skill: Narrate your own experience when a child taught you a lesson (400- 450 words)  |
| English-II             |  |
| 2nd Lang               | Bengali: किव पूछार भू(थाप्राक्षात्यत लिथा 'प्रालमलित मा' किविजािंक এकि एचि गल्लात क्रि पाउ।(कमप्राक्ष ১००० ि गय लिथत।) Hindi: मुंशी प्रेमचंदजी द्वारा रिचत कहानी 'पुत्रप्रेम' एक संवेदनशील तथा भावनात्मक कहानी है।इस कथन की पुष्टि की जिये।(1000शब्दों में)  |
| Mathematics            | Attempt either from Section-B or Section-C  Section-B  Find the area bounded by a parabola and anoblique line.(Any other pair of curves which are specified inthe syllabus may also be taken.)  Section-C  Draw a rough sketch of Cost (C), AverageCost (AC) and Marginal Cost (MC)OR  Revenue (R), Average Revenue (AR) andMarginal Revenue (MR). |
| Physics                |  |
| Chemistry              |  |
| Biology                |  |
| Computer Science       |  |
| History                |  |
| Geography              |  |
| Political Science      |  |
| Economics              |  |
| Sociology              | Crime and Society-A sociological analysis of Indian scenario.  |
| Psychology             | To study the group differences among 2 sections of the same class with the same subjects.  |
| Accounts               | Cash flow Statement.   |
| Commerce               | Principles of Management.  |
| Business Studies       | Staff Selection.   |
| Physical Education     | Project file on two major games  |