

CLASS X : PROJECT WORKS/ASSIGNMENTS

Session: 2019 – 20

IMPORTANT INSTRUCTIONS:

1. All students have to complete a certain number of assignments or projects in all subjects within the stipulated time in fulfillment of the requirement of their preparation for the Class- X Board Examinations.
2. The project/assignments are part of the internal assessment; the marks awarded are forwarded to the council and is added with their final mark list.
3. All assignments are to be submitted according to the date mentioned in the list.
Deduction of marks will be done for late submission. Marks are awarded for the Preparation, Presentation, Timely Submission and analysis of the Topic.
4. No leave of absence will be permitted for preparing project or assignment.

Subject	Topic	Date Of Submission
Hindi	<p style="text-align: center;">साहित्य सागर गद्य खंड</p> <p>पाठ – 1 महायज्ञ का पुरस्कार – लेखक का जीवन परिचय , कहानी की सार्थकता तथा उद्देश्य लिखिए। पाठ – 4 नेता जी का चश्मा कहानी का सारांश अपने शब्दों में लिखिए। पाठ – 7 संदेह कहानी का उद्देश्य लिखते हुए इसके पात्रों का चारित्र चित्रण लिखिए।</p> <p style="text-align: center;">काव्य खंड</p> <p>पाठ – 1 'कबीरदास' का जीवन परिचय लिखते हुए उनके साहित्यिक जीवन पर प्रकाश डालिए। पाठ – 5 'मेघ आये' कविता का भावार्थ लिखते हुए कविता में निहित सन्देश को स्पष्ट कीजिए। पाठ – 7 तुलसीदास के जीवन वृत्त पर प्रकाश डालते हुए विनय के पद कविता की व्याख्या सप्रसंग लिखिए।</p> <p style="text-align: center;">व्याकरण सरस हिंदी व्याकरण</p> <p>निम्नलिखित विषयों पर सारगर्भित निबंध लिखिए (250 शब्द)</p> <ol style="list-style-type: none">1. नकद रहित अर्थव्यवस्था भारत जैसे देश के लिए कितना उपयोगी सिद्ध होगा – पक्ष या विपक्ष में अपने विचार लिखिए।2. आपका कोई मित्र अत्यंत परिश्रमी एवं होनहार है। आपका उसका अनुसरण कर वैसा ही बनना चाहते हैं। बताइए आपको अपनी कौन सी कमजोरियां दूर करनी पड़ेगी एवं कैसे ? <p style="text-align: center;">पत्र लेखन 120 शब्द</p> <ol style="list-style-type: none">1. आपके क्षेत्र में एक ही साधारण – सा सरकारी अस्पताल है जिसके परेशानियों के कारण आम जनता को बहुत अधिक परेशानियों का सामना है। उन उल्लेख करते हुए एक और सुविधायुक्त सरकारी अस्पताल खुलवाने का अनुरोध करते हुए स्वास्थ्य अधिकारी को पत्र लिखिए।2. आपका अपनी बहन या भाई से किसी बात को लेकर विवाद हो गया। आपने भावावेश में उसे कुछ अशोभनीय शब्द कह दिए। शांत चित्त होने पर अपनी गलती का आभास होने से आप आत्मग्लानि से भर उठे। घटना का विवरण देते हुए क्षमा याचना हेतु पत्र लिखिए।	16-04-2019

	<p style="text-align: center;">व्यवहारिक व्याकरण</p> <ol style="list-style-type: none"> 1. अपनी पाठ्य पुस्तक सरस हिंदी व्याकरण की पृष्ठ संख्या 244 से क्रिया और अव्यय शब्दों से विशेषण बनाइए (20 शब्द) 2. अपनी पाठ्य पुस्तक सरस हिंदी व्याकरण की पृष्ठ संख्या 256 से 'शिखा' से लेकर 'हृदय' शब्दों के दो – दो पर्यायवाची शब्द। लिखिए 3. अपनी पाठ्य पुस्तक सरस हिंदी व्याकरण की पृष्ठ संख्या 265 से सुगंध से लेकर श्रव्य शब्द तक विलोम लिखिए। 4. अपनी पाठ्य पुस्तक सरस हिंदी व्याकरण की पृष्ठ संख्या 303 से निर्देशानुसार उत्तर दे। (संख्या 1 से लेकर 10 तक) 	
Geography	<p>Select one topic from the following. Explain the same in 15 to 20 pages.</p> <ul style="list-style-type: none"> • Transport in India • Rail , roads, seaports, air routes and their development policies of India, problems and plans for solving them. <p style="text-align: center;">Or</p> <ul style="list-style-type: none"> • Tourist destinations • Tourist destinations and developments of tourism in India. 	29/04/2019
English	<p style="text-align: center;">Drama</p> <p>Write the dramatic significance of Act – 3, specially in response to Bassanio's selection of the casket and focus on certain traits of Romantic love comedy in this reference.(500 words)</p> <p style="text-align: center;">Poetry</p> <p>Daffodil is a nature descriptive lyric by William Wordsworth explain rhetoric device used by the poet in this poem along with vivid colourful images of Daffodil too. (500 words)</p> <p style="text-align: center;">Short story</p> <p>With the reference to the short story ' An Angel in Disguise'. Explain how the author has shown that selflessness and compassion can bring happiness not only for others but also for oneself. (500 words)</p>	20/06/2019
Chemistry	<p>Make a project on any one from the following topics:</p> <p>Study of compounds – Ammonia: Its laboratory preparation from ammonium chloride and collection; ammonia from nitrides like Mg_3N_2 and AlN and ammonium salts manufacture by Haber's Process; density and solubility of ammonia (fountain experiment): aqueous solution of ammonia, its reactions with hydrogen chloride and with hot copper (II) oxide and chlorine; the burning of ammonia in oxygen; use of ammonia.</p> <p>Study of compound – Nitric Acid One laboratory method of preparation of nitric acid from potassium nitrate, sodium nitrate. Large scale preparation. Nitric acid as oxidizing agent.</p>	20-06-2019

	<p>Study of compound – Sulphuric Acid Large scale preparation, its behavior in an acid when dilute, as an oxidizing agent when concentration oxidation of carbon and sulphur, as a dehydrating agent – dehydration of sugar and copper (II) sulphate crystals; its non – volatile nature.</p> <p style="text-align: center;">Or</p> <p>Organic chemistry Introduction of organic compounds. Structure and isomerism Homologous series – characteristics with examples. Simple nomenclature Hydrocarbons: alkanes, alkenes, alkynes. Alcohols: ethanol – preparation, properties and uses. Carboxylic acids (aliphatic – mono carboxylic acid): Acetic acid – properties and uses of acetic acid.</p>	
Biology	<p>Reproduction in human being</p> <ul style="list-style-type: none"> ➤ What is reproduction? ➤ Types of reproduction ➤ Male Reproductive System – Internal organs like – Testis , Epididymis, Vas deferens, & Accessory glands (Seminal Vesicles, prostate gland and bulbourethral glands). Etc. ➤ Spermatogenesis. ➤ Structure of sperm ➤ Female reproductive system – Vulva, cervix, uterus, Fallopian tube, ovaries, etc. ➤ Menstrual Cycle. ➤ Structure of Egg (Ovum). ➤ Fertilization. ➤ Development of Zygote, Cleavage, Gestation , Parturition, Amniocentesis. 	04/07/2019
History & Civics	<p style="text-align: center;">History</p> <p>Explain causes and result of the following:</p> <ul style="list-style-type: none"> ➤ First world war = 1914 – 1918 ➤ Second world war = 1939 – 1945 <p style="text-align: center;">Or</p> <p style="text-align: center;">Civics</p> <p>With reference to the judicial system of India, Explain the following.</p> <ul style="list-style-type: none"> ➤ Composition of supreme court. ➤ Qualifications of Judges ➤ Jurisdiction of Supreme court. ➤ Fundamental Rights and Writs. 	24-06-2019
Physics	<p>Question – 1 State the law of conservation of energy. Prove mathematically the law of conservation of energy for a freely falling body of mass 'm' from a height 'h'.</p>	08-07-2019

Question - 2

Explain with labeled diagram of 'lever of I order, lever of II order and lever of III order' with two examples for each.

Question - 3

How will you find the focal length of a convex lens by using a single pin and a plane mirror.

Question - 4

Draw a labeled diagram of an A.C. generator. State its principle. Explain its working.

Mathematics

Question - 1

What is GST? Explain the following terms:

Dealer

Intra – state sales

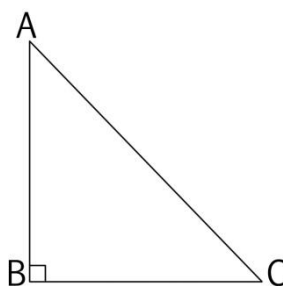
Inter – state sales

Input GST and Output GST

Types of taxes under GST

Write GST rate structure. Write objective and advantages of GST.

Question - 2 (a)



In a ΔABC $\angle B = 90^\circ$, $\angle A$ and $\angle C$ are acute angles. Write values of $\sin C$, $\cos C$, $\tan C$, $\sec C$ and $\operatorname{cosec} C$ in terms of AB , BC and CA .

b) Write the fundamental trigonometric identities (Reciprocal relations, Quotient relation, square relations)

c) Write trigonometric ratios of complementary angles.

Question - 3

Write equation of a straight line in different forms with diagrams wherever requires.

Question - 4

a) For the following frequency distributions draw a histogram,

Class	0-5	5-10	10-15	15-20	20-25	25-30
Frequency	2	7	18	10	8	5

b) Find mean for the following frequency distribution by

Direct method

Short cut method

Step deviation method

C.I	84-90	90-96	96-102	102-108	108-114
Frequency	8	12	15	10	5

02-07-2019

Computer	<p style="text-align: center;">Section – A</p> <ol style="list-style-type: none"> 1- Explain all the string library functions along with its syntax and examples. 2- Explain different types of Literals along with the data types sizes and ranges. 3- Explain the different features of OOP. With proper examples. 4- Explain the term Type conversion. Explain the different types of type conversion with proper examples. 5- Explain the terms primitive data types, referenced data type and composite data types with proper example and workings. <p style="text-align: center;">Section – B</p> <ol style="list-style-type: none"> 6- Write a menu driven program to print whether a number is Automorphic, dissarium or unique no. 7- Write a menu driven program to print the pattern 1 and pattern 2. <ul style="list-style-type: none"> 1 2 1 3 2 1 4 3 2 1n terms 1 2 3 4 5 6 7 8 9 10n terms 8- Write a menu driven program to print whether a number is Armstrong, Prime, Palindrome or not. 9- Write a program to print whether a number is Fibonacci series number or not 10- Write a program to input a number and print whether it is a twisted prime number or not. 	14-10-2019