CLASS : XII

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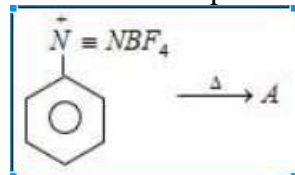**Assignments will not be accepted after the due date.**

SUBJECT	ASSIGNMENT 1 (10 MARKS)

ENG LANG	**I.** **Do as directed:** **(5)**
	 i. Sachin Tendulkar played so well that India won the match.
	      (Begin: Sachin Tendulkar played too….
	 ii. Try as he will, he cannot beat me at badminton.
	      (Begin: However….
	 iii. If I had heard of the process earlier, I would have adopted it.
	      (Begin: Had I ….
	 iv. He couldn't betray his boss or his friend.
	      (Begin: Neither …
	 v. The installation of a new air conditioner is being undertaken at our institution.
	      (Begin: A new…)
	
	 II. **Fill in the blanks with a suitable word:** **(5)**
	    i. The plane touched _____ at 12.00 pm.
	    ii. Can you make _____ what he is trying to say?
	    iii. The child took _____ his grandmother immediately.
	    iv. He ran _____ all his money without earning any.
	    v. Pull _____ your socks and get down to work.
	    vi. I went for a walk _____ the riverside.
	    vii. The refugees climbed _____ the mountain and reached the other side.
	    viii. She had fallen _____ the others as they moved up the hill.
	    ix. There was trouble _____ the city.
	    x. The veteran sportsman spoke in detail _____ the days of yore.

ENG LIT	I. Justify the title of the story, *"The Singing Lesson".* (5) II. What character do you deduce of the protagonist in the story, *'The Singing Lesson'* (5)

HINDI LANG	प्रश्न 4. निम्नलिखित वाक्यों को शुद्ध करें:-
	    क. मेरा घर यहाँ से चार मील दूर है। (1)
	    ख. जितना करोगे, उतना भरोगे। (1)
	
	 प्रश्न 5. निम्नलिखित मुहावरे से वाक्य बनाएँ:-
	    क. घी के दिए जलाना - (1)
	    ख. चार चाँद लगाना - (1)

HINDI LIT	प्रश्न 1. "क्या निराश हुआ जाए" निबंध में लेखक ने बस यात्रा की कौन सी घटना का वर्णन किया है? अपने शब्दों में उल्लेख करें। (2)

	प्रश्न 2. लेखक का मन कौन सी बातों से बैठ जाता है? लेखक का मन भारतवर्ष के लिए क्या कहता है? स्पष्ट करें। (2) प्रश्न 3. कबीरदास ने जीवन में परमात्मा के महत्व को किसप्रकार स्पष्ट किया है? (2)
MATHS	Q 1) If $x^p y^q = (x + y)^{p+q}$, prove that $\frac{dy}{dx} = \frac{y}{x}$. (2) Q 2) If $x = a(\theta - \sin\theta)$ and $y = a(1 - \cos\theta)$, find $\frac{dy}{dx}$ at $\theta = \frac{\pi}{2}$. (2) Q 3) Find the derivative of $\sin x^2$ with respect to x^4. (2) Q 4) If $y = (\tan^{-1} x)^2$, prove that $(x^2 + 1)^2 \frac{d^2y}{dx^2} + 2x(x^2 + 1)\frac{dy}{dx} = 2$. (2) Q 5) Evaluate: $\lim\limits_{y \to 0} \left[\frac{y - \tan^{-1} y}{y - \sin y}\right]$. (2)
PHY	**Moving Charges And Magnetism** Q1. State Ampere's circuital law connecting the line integral of B vector over a closed path to the net current crossing the area bounded by the path . Use the law to derive expression for magnetic field due to an infinitely – long straight current carrying wire . Why is the above derivation not valid for magnetic field due to a current carrying wire of finite length ? Q2. Derive the relation for the force per unit length between two infinitely – long ,parallel ,straight conductors carrying currents . Q3. Two long, parallel ,straight wires A and B carrying currents of 8.0 A and 5.0 A in the same direction are placed 4.0 cm aapart .Estimate the force on a 10 cm sedtion of wire A . Q4. An electron moving with velocity 5.0 x 10 ^{7} m/s enters a magnetic field of 1.0 N/A m at an angle of 30^0 to the field .Calculate the force on the electron .
CHEM	1. In electrolytic conductors, the conductance is due to _____ a) Flow of free mobile electrons b) Movement of ions c) Either movement of electrons or ions d) Cannot be said 2. Which of the following is the example of the electrolytes? a) Acids b) Metals c) Alloys d) Oxides 3. The resistance of the conductor in the electrolytic cell _____ with an increase in temperature. a) Increase b) Decrease c) Slightly increase d) Do no change 4. The process of decomposition of an electrolyte by passing electric current through its solution is called as ____ a) Electrolyte b) Electrode

	c) Electrolysis
	d) Electrochemical cell
	
	5. Specific conductance is expressed in terms of ____
	a) Ohm/cm
	b) Ohm.cm
	c) Ohm-1 cm-1
	d) Ohm-1 cm
	
	6. Which one of the following possess highest melting point?
	a) Chlorobenzene
	b) o-dichlorobenzene
	c) m-dichlorobenzene
	d) p-dichlorobenzene
	
	7. Which of these can be used as moth repellent?
	a) Benzene hexachloride
	b) Benzal chloride
	c) Hexachloroethane
	d) Tetrachloroethane
	
	8. Which of the following is true about chlorobenzene?
	a) Chlorobenzene is less reactive than benzyl chloride
	b) Chlorobenzene is more reactive than ethyl bromide
	c) Chlorobenzene is nearly as reactive as methyl chloride
	d) Chlorobenzene is more reactive than isopropyl chloride
	
	9. In the below process what is the product A?
	
	$\overset{+}{N} \equiv NBF_4$
	
	$\xrightarrow{\Delta} A$
	
	  a) Fluorobenzene
	  b) b) Benzene
	  c) c) 1, 4-difluorobenzene
	  d) d) 1, 3-difluorobenzene
	
	10. Geminal Dihalide is an example for
	a. halide with same carbon
	b. halide with different carbon
	c. halide with first carbon
	d. None

BIO	**Answer All The Questions:** 1. Define juvenile stage. (1) 2. What is the specialty of bamboo plant? (1) 3. Draw and label TS of anther. (2) 4. Explain the steps on Magasporogenesis. (2) 5. What is Down's syndrome?Give two manifestations. (2) 6. Why is ABO Blood grouping is considered an example for multiple alleles? (2)
POL SCIENCE	**I.Answer the Following Questions in Brief:** (2x 5=10) a. What do you understand by Totalitarian State? b. Mention any two features of Authoritarian State . c. What do you understand by Representative Government ?

	d. Mention any two comparison between Totalitarian and Authoritarian States. e. Define Liberal Democratic State .
GEOG	**Answer the following questions:** 1. Write a geographical essay on the Peninsular Plateau of India. (3) 2. Write a short note on the Aravalis. (2) 3. State two differences between Himalayan and Peninsular river systems. (2) 4. What are badlands? Name one river draining the badlands of India. (3)
COMP	1. Find the Complement of [(x.y)'. x]. [(x.y)' .y] (2) 2. Convert the expression $F(X, Y, Z) = (X + Y').(Y'+ Z)$ into its Canonical POS form. (2) 3. Find the maxterm and minterm when P = 0, Q = 1, R = 1 and S=0. (2) 4. Differentiate between Half Adder and Full Adder. (2) 5. Simplify A. (A'+B).C. (A+B) by using Boolean Laws. (2)
ECO	Q1) Explain the following factors that affect the Supply of a commodity: (2) a) Input Prices b) Prices of Related Commodities Q2) Give any two differences between Monopoly and Monopolistic Competition. (Instruction: Write the differences in complete sentences) (2) Q3) What is meant by Elasticity of Supply? Draw diagrams and explain the various degrees of Price Elasticity of Supply. (6)
ACC	**Q1. From the following information prepare the Profit & Loss Appropriation Account for the year ending 31st March 2020 . Show all workings clearly. (8)** Ajay, Bijay and Djay are partners in a firm sharing profits and losses in the ratio 2:3:4. Their capital accounts on 1st April 2019 were Ajay Rs 25000 (Dr.), Bijay Rs 50,000 and Djay Rs 1,00,000. Their partnership deed provided for the following: Interest on capital to be allowed @10% p.a. Bijay gets a salary of Rs 1,000. Ajay to get a commission of 5% on the divisible profits after charging his commission. An amount of Rs 5,000 to be set aside each year to General Development Fund. Interest on drawings to be charged @8% on amount withdrawn. The partners withdrew as follows: Ajay- Rs 500 at the end of each month. Bijay- Rs 2,000 at the beginning of each quarter Djay- Rs 15,000 during the year The firm earned a profit of Rs 45,000 for the year ending 31st March 2020. **Q2. Calculate goodwill by capitalising the super profit: (2)** Partners' capital Account: P – Rs 90,000, Q- Rs 80,000 and R-Rs 70,000. Partners' Current Accounts: P – Rs 10,000, Q –Rs 8,000 and R- Rs 5,000 (Dr.) General Reserve Rs 60,000. Goodwill appearing in the books- Rs 12,000. Investments Rs 25,000. Normal Expected Returns 12%. Average profits Rs 30,000.
COMM	Q1. What is the importance of business environment? (5) Q2. Explain the factors affecting the amount of fixed capital requirement in an organisation. (5)

DIRECTOR ACADEMICS