RANIGANJ LIONS JDM CHANANI DAV PUBLIC SCHOOL

HOLIDAY HOMEWORK

CLASS: XI

SESSION: 2025-26

SUBJECT	QUESTIONS
ENGLISH	English Holiday Homework: 1. Project Work Title: *Echoes of the Past: A Thematic Exploration of Memory, Loss, and Love* Based on: "The Portrait of a Lady" by Khushwant Singh & "A Photograph" by Shirley Toulson Project Instructions (to be followed in the project file) *Cover Page* : Title of the Project, Name of the Student, Class & Section, Roll Number, School Name & Logo, Academic Year *Index Page*: Table of contents with page numbers. *Introduction*: Brief introduction to the project topic, Importance of memory, loss, and familial love in literature. *About the Texts*: Summary and theme of "The Portrait of a Lady", Summary and theme of "A Photograph". *Thematic Comparison*: Comparative analysis of shared themes, Grandparent-child bond vs mother-daughter bond, Use of nostalgia and silence, The portrayal of death and absence, Role of photographs and memories. *Creative Section*: A personal photograph and a short paragraph describing your memory attached to it, A self-written poem or short paragraph on your grandparent or loved one, Collage of images, quotes, or illustrations. *Reflection*: What did you learn from these texts?, How do they relate to your own life or observations? *Conclusion*: Wrap up the key insights from the project. *Bibliography*: Mention of textbooks and any other sources used. *Guidelines*:

	· Project should be handwritten. · Use black or blue ink only. · Maintain neatness and legibility. · Use headings, subheadings, and bullets where appropriate. · Decorate the file minimally – focus on content clarity. · Submit by the due date announced by your teacher. **2. Answer the following question in about 120 words.(To be done in Eng C/W notebook)** (i). Compare and contrast the theme of loss and memory as portrayed in The Portrait of a Lady and the poem A Photograph. How does each writer depict the emotional response to loss and remembrance? (ii). If the grandmother were alive today, how might her relationship with the narrator evolve in a fast-paced, digital world, and what challenges would it present? or (iii) Why does the narrator recall his grandmother as a "winter landscape in the mountains" and how does this metaphor enrich the characterization of her presence in his life?
PHYSICAL EDUCATION	**A. Answer the following questions:** 1. Explain the concept of Physical Education along with its aims and objectives. 2. Discuss how the concept of innovation has influenced playing surfaces, wearable gear, and technological advancements in sports. 3. Describe the various career options available in the field of Physical Education. 4. Describe how the concepts behind the Khelo India and Fit India programs promote health and fitness among youth. **B. Practical Record File:** Sport/Game of Choice (IOA Recognized) Instructions: Choose any one sport such as Football, Badminton, Volleyball, or Kho-Kho. Include the following in your project. a) Labelled diagram of the field/court b) List of basic equipment used c) Rules and regulations d) Important terminologies e) Basic skills involved in the game.
PAINTING	**Answer the following Questions.?** 1. Name two paintings found in the caves of Bhimbetaka 2. Name five archaeological sites of Indus Valley Civilization excavated in India, Project work. 1. Still Life (Pencil shade) 2. Composition -2 (Water Colour) a) Market place b. Daily Life composition

MATHEMATICS	Write the following Activities (**To be done in practical file**):
	1) To find the number of subsets of a given set and verify that if a set has 'n' number of elements, then the total number of subsets will be 2^n.
	2) To verify that for two non-empty finite sets A and B : If the number of elements of set A is ' n' and the number of elements of set B is ' i' , then the total number of relations from A to B is equal to 2^{ni}.
	3) To plot the graphs of sin x, sin 2x , 2 sin x and sin (x/2) using the same coordinate axes.
	4) To obtain a formula for the sum of squares of the first 'n' natural numbers.
	5) To construct a parabola.
	
	Answer the following questions: (**To be done in the class work notebook**)
	1) Write down all possible subsets of {a,b,c}.
	2) If A, B and C are any three sets, then prove that $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$
	3) Let A={1,2,4,5}, B={2,3,5,6}, C={4,5,6,7}. Verify the following identity:
	$A-(B \cap C) = (A-B) \cup (A-C)$
	4) By using the properties of set prove that:
	   a) $(A \cup B) - (A \cap B) = (A-B) \cup (B-A)$
	   b) $(A-B) \cup (A \cap B) = A$
	   c) $A- (B \cup C) = (A-B) \cap (A-C)$
	5) In a town of 10,000 families it was found that 40% families buy newspaper A, 20% families buy newspaper B and 10% families buy newspaper C. 5% families buy A and B, 3% buyB and C and 4% buy A and C . If 2% families buy all the three newspapers ,find the number of families which buy (i) A only (ii) B only (iii) none of A,B and C.
	6) Find the degree measure corresponding to the radian measure : $\pi/8$.
	7) Find the radian measure corresponding to the degree measure: 5° 37′ 30″.
	8) Prove that : $\sin^8 x - \cos^8 x = (\sin^2 x - \cos^2 x)(1- 2 \sin^2 x \cos^2 x)$
	9) If $\cot x(1+\sin x) =4m$ and $\cot x(1- \sin x) =4n$, prove that $(m^2 - n^2)^2 = mn$
	10) Prove that: $\tan 225° \cot 405° + \tan 765° \cot 675° = 0$

BIOLOGY	**A.Write the following practicals in your practical copy.** 1. To study the parts of a compound microscope. 2. To study osmosis by potato osmometer. 3.To study the virtual specimens/slides/models and write the identifying features of -Amoeba, Hydra, Liver fluke, Ascaris, leech, earthworm, prawn,silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit. 4. To study and describe locally available common flowering plants including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).

5.To study specimens/slides/models and write the identifying features with reasons -Bacteria, Oscillatoria, Spirogyra,Rhizopus, mushroom, yeast,liverwort,moss,fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.

6.To study mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides

7.To test for the presence of sugar,starch, proteins and fats in suitable plant and animal materials

8.To study plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or fleshy scale leaves of onion bulb. in urine.

B.TO PREPARE AN INVESTIGATORY PROJECT ON ANY TOPIC OF YOUR CHOICE

FORMAT TO BE FOLLOWED:-

a)1st Page-Name of the school, Investigatory Project, name, class, section, Board roll no., subject, Guide teachers' name

b)2nd Page-Certificate

c)3rd Page-Acknowledgement

d)4thPage-Index

e)5thPage-Aim/Objective

f)6th Page onwards-Project Report

g)Conclusion

h)Bibliography

Maximum no.of page should not exceed 20

Project is to be written in shoelace file

#Project should be handwritten

Pictures/diagrams(coloured) may be pasted

SUGGESTED TOPICS FOR THE INVESTIGATORY PROJECT

1. Diabetes and health
2. HIV and AIDS
3. Drug addiction
4. Sickle Cell Anaemia: Molecular basis
5. Covid-19: the pandemic
6. Ozone depletion and its effect on mankind
7. Effects of Parthenium on humans
8. Cancer and cell division
9. Biological Nitrogen Fixation
10. Blood grouping: Bombay phenotype
11. Cloning in organism.
12. Alzheimer's and Dementia
13. Possible effects of maternal behaviour on foetal development
14. Biological Oxygen Demand (BOD) as pollution indicator in water body

	15. Agrochemicals and their effects
	16. Impact of local industry on environment
	17. Drug resistance in bacteria
	18. Coral reef: existence and depletion
	
	C. Answer the following questions:
	1. What is biological classification? State the objectives of biological classification.
	
	2. What is a taxon? Illustrate the taxonomic hierarchy with a suitable example in your own words.
	
	3. Identify the phylum based on their unique chafacteristics:
	    1. Gastrovascular cavity with mouth on hypostome.
	    2. Bilaterally symmetrical, triploblastic and acoelomate.
	    3. Nephridia for osmoregulation
	    4. Water vascular system
	    5. Calcerous shells
	
	4. State the scientific name and phylum of the following organism based on their common names.
	    a) tusk shell
	    b) sea lily
	    c) earthworm
	    d) sea fan
	    e) bath sponge
	
	5. State the economic importance of heterotropic bacteria and archaebacteria.

PHYSICS	**1 A. Prepare an investigatory project**: Submit the draft of an investigatory project: **SUGGESTED TOPICS FOR THE INVESTIGATORY PROJECT**: 1.Finding the coefficient of restitution of a surface by dropping a ball from height h. 2. Finding the value of acceleration due to gravity by a sharp end rod. Follow the given format:- a)1st Page-Name of the school, Investigatory Project, name of the student, class, section, Roll no., subject, Guide teachers' name b)2nd Page-Certificate c)3rd Page-Acknowledgement d)4thPage-Index e)5thPage-Aim/Objective f)6th Page onwards-Project Report h) 7th page - Conclusion

I) 8th page - Bibliography

B. Write the following Activities:
1. To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm.
2. To determine mass of a given body using a metre scale by principle of moments.
3. To plot a graph for a given set of data, with proper choice of scales and error bar.
2. Answer the following questions:
i. State the number of significant figures in the following:

(a) 0.007 m^2

(b) $2.64 \times 10^{24} \text{ kg}$

(c) 0.2370 g cm^{-3}

(d) 6.320 J

ii. A famous relation in physics relates 'moving mass' m to the 'rest mass' m_o of a particle in terms of its speed v and the speed of light, c (This relation first arose as a consequence of special relativity due to Albert Einstein). A boy recalls the relation almost correctly but forgets where to put the constant c. He writes :

$m = m_o/\sqrt{(1-v^2)}$.Guess where to put the missing c .

iii. Precise measurements of physical quantities are a need for science. For example, to ascertain the speed of an aircraft, one must have an accurate method to find its positions at closely separated instants of time. This was the actual motivation behind the discovery of radar in World War II. Think of different examples in modern science where precise measurements of length, time, mass etc., are needed. Also, wherever you can, give a quantitative idea of the precision needed.

iv. The distance of a galaxy is of the order of 10^{25} Calculate the order of magnitude of time taken by light to reach us from the galaxy.

CHEMISTRY	1.A sample of a hydrate of barium chloride weighing 61 g was heated until all the water of hydration is removed. The dried sample weighed 52 g. Deduce the formula of the hydrated salt . (atomic mass, Ba = 137 amu, Cl = 35.5 amu) 2.At 300 K and 1 atmospheric pressure, 10 mL of a hydrocarbon required 55 mL of O_2 for complete combustion and 40 mL of CO_2 is formed. What is the formula of the hydrocarbon? 3.85 g ammonia is allowed to react with 128 g of oxygen at a specific temperature and pressure(STP). How much nitric oxide gas is formed at STP after completion of the reaction? What is limiting reagent here? 4. Concentrated HNO_3 is 63% HNO_3 by mass and has a density of 1.4 g/ml. (i) How much mL of this solution are required to prepare 250 mL of a 1.20 M HNO_3 solution? (ii)How much volume of 2 (M) $Ca(OH)_2$ is required to neutralise this HNO_3 solution? 5. Calculate the mass per cent of calcium, phosphorus and oxygen in calcium phosphate $Ca_3(PO_4)_2$

	6. Find molality and molarity of an aqueous solution of glucose having mole fraction 0.1 and density of solution is 1.1 g/mL.
	7. The vapour density of a mixture containing NO_2 and N_2O_4 is 38.3 at $27^\circ C$. Calculate the mole of NO_2 in 100 mole mixture.
ACCOUNTANCY	**I) PROJECT REPORT**
	Comprehensive project of any sole proprietorship business. This may state with journal entries and their ledgering, preparation of Trial balance. Trading and Profit and Loss Account and Balance Sheet. Expenses, incomes and profit (loss), assets and liabilities are to be depicted using pie chart / bar diagram. This may include simple GST related transactions.
	The format for presentation of report which should be arranged in the following sequence: a) External cover page b) Acknowledgement c)Certificate d) Executive summary e) Index f) Introduction to the topic (Introduction, objectives)
	II) Answer the following questions:(to be written in notebooks):
	Q1. Write any 6 advantages of the double entry system?
	Q2. Ruma started the business of stationery with ₹ 15,00,000 as an initial investment. Out of which, he paid ₹ 3,00,000 for purchasing furniture and ₹ 6,00,000 for buying stationery items. He employed a sales person and clerk. At the end of the month, he paid ₹ 15,000 as their salaries. Stationery was sold for cash of ₹ 4,50,000 and for ₹ 3,00,000 on credit to Vijay. Subsequently, he bought stationery of ₹ 4,50,000 from Anil. In the first week of next month, there was a fire and he lost ₹ 90,000 worth of stationery. A part of the furniture, which cost ₹ 1,20,000 was sold for ₹ 1,35,000.
	On the basis of above, answer the following: (i) What is the amount of capital with which Ruma started business? (ii) What are the fixed assets he bought? (iii) What is the value of the goods purchased? (iv) Who is the creditor and state the amount payable to him?

	(v) What is the gain on furniture sold? (vi) What is the loss he incurred? (vii) What amount is receivable from the debtor? (viii) What is the total amount of expenses and losses incurred? Q3. The assets of Gurman Sugar Co. were acquired by the Government on 1st April, 2000 and the company received a compensation of ₹ 10 crores. The company did not have any other business as on the date of acquisition and has also not ventured into any other business after acquisition of assets. The company placed the amount received in a fixed deposit with a bank, which is lying deposited with the bank as on date also. It has also filed a case in the Court seeking higher compensation. Is the company a going concern?
BANKING	**I)PROJECT REPORT** Visit the websites of five different commercial banks (Three Public sector and two private sector banks) and obtain the details of the various Retail Banking Products offered by them. Prepare a comprehensive report for each of these banks covering the following: Retail banking product (One asset and one liability product) best suited for the people in different stages of the cycle e.g. a young executive who recently joined the job, A housewife, an elderly lady with no dependents, a retired person, a member of armed forces etc. The format for presentation of report which should be arranged in the following sequence: a) External cover page b) Acknowledgement c)Certificate d) Executive summary e) Index f) Introduction to the topic (Introduction, objectives) **II) Answer the following questions:(to be written in notebooks):**

RBI fines ICICI, Axis, three other banks for regulatory compliance lapses

The RBI said the banks' non-compliance involved cybersecurity, customer charges, KYC norms, and internal account mismanagement

RBI said the penalties are based on deficiencies in regulatory compliance and are not intended to pronounce upon the validity of any transaction or agreement entered into by the banks with their customers. (Photo: PTI)

1.On the basis of the above news headlines explain the initiatives undertaken by RBI for regulation and supervision of Payments and Settlements of the banking system.

2. Make a detailed flowchart of the Banking System of India and explain the different types of Banks functioning in India.

3.The Reserve Bank of India has ordered Punjab and Maharashtra Co-operative (PMC) Bank not to do any business for six months and capped depositor withdrawals at Rs 1,000, throwing the lives of thousands of traders, self-employed and daily wage earners into disarray. The regulator has also appointed an administrator for the bank.
Defaults appear to have surged in the past six months amid tight economic conditions and some lumpy loans to real estate companies located in the financial capital that turned sour, making it difficult for the bank to meet its commitments, two people familiar with the matter said.
The sudden freeze ahead of the festival season is set to upset calculations of customers and deal a big blow to a state that is heavily reliant on the cooperative bank structure to service millions of customer in its villages. The development comes at an awkward time for the state government in Maharashtra, the BJP, and other political parties such as the NCP and the

	Congress, which are known to have a strong support base among the customers of cooperative banks. The state goes to polls in October. "Depositors will be allowed to withdraw a sum not exceeding Rs 1,000 of the total balance in every savings bank account or current account," RBI said in a statement. In the context of the above case study highlight the Functions of RBI. 4.Write the full form of NABARD and what role does it play in the economy.
BUSINESS STUDIES	**I) PROJECT REPORT:** TOPIC: Students today will choose any one of the following topics: 1) Case Study on any Product 2) Aids to Trade 3) Import and Export Procedure The project report will be developed in the following sequence: =>Cover page should project the title, student information, school and year. =>List of contents. =>Acknowledgements and preface (acknowledging the institution, the newspapers read, T.V. channels viewed, places visited and persons who have helped). =>Introduction. **II) Answer the following questions:(to be written in notebooks):** Q1. The business assets of an organisation amount to Rs. 50,000 but the debts that remain unpaid are Rs. 80,000. What course of action can the creditors take if

	(a) The organisation is a sole proprietorship firm (b) The organisation is a partnership firm with Anthony and Akbar as partners. Which of the two partners can the creditors approach for repayment of debt? Explain giving reasons. 2. Kiran is a sole proprietor. Over the past decade, her business has grown from operating a neighbourhood corner shop selling accessories such as artificial jewellery, bags, hair clips and nail art to a retail chain with three branches in the city. Although she looks after the varied functions in all the branches, she is wondering whether she should form a company to better manage the business. She also has plans to open branches countrywide. (a) Explain two benefits of remaining a sole proprietor. (b) Explain two benefits of converting to a joint stock company (c) What role will her decision to go nationwide play in her choice of form of the organisation? (d) What legal formalities will she have to undergo to operate business as a company?
ENTREPRENEURSHIP	**Read the following Case Studies and answer the questions:** **1.** The year 2021 has seen India make a mark for itself in the global entrepreneurial ecosystem. While the entire country saw a challenging time during the second wave of COVID-19 in May 2021, Indian entrepreneurs continued building for the country. Rapid digital transformation and adoption of tech during the lockdown led to unprecedented growth. From being one of the emerging markets to consolidating its position as one of the fastest growing markets for emerging tech companies, this year has set the tone for what the next decade would look like for India. 2021 gave us nearly a decade's worth of unicorns in one year alone and 15 debutant IPOs with the likes of Zomato and Nazara Technologies that more than doubled from their issue price. The acceptance of start-ups as a catalyst to the growth of the economy has encouraged not only foreign but also domestic investors to allocate capital to new-age companies. As well-funded companies from the previous decade are entering a new phase of growth, they're generating cohorts of seasoned entrepreneurs and professionals starting up again with increasing maturity and resilience. Source By Pearl Agarwal, ET CONTRIBUTORS 22nd Dec, 2021 (i) Which concept is highlighted in the above paragraph?

(ii) Mention any two needs of entrepreneurship.

2. Kamal, after completing his studies, wanted to start his own business. However, his father Mr Kishanlal discouraged him saying that it takes a lot of money to finance a new business. Is Mr Kishanlal justified in his view? Comment.

3. Karan, a rural boy, identifies the potential of organic farming in the village. He meets the zonal agricultural officer, who, looking at the determination of this 20 years old boy, helps him to arrange and procure multiple resources required for his farm land. Then Karan takes a loan of ₹50,000 from SBI as his seed money of₹10,000 is not enough to cater the requirement. Karan ties up with a nearby city's vegetable shop owner to sell his yield. His hardwork pays and the organic vegetables are a hit. This organic vegetable producer exhibits to be a good entrepreneur with good entrepreneurial skills. Do you agree? Justify giving reasons for your answer.

4. Meena Sharma started Hathi Chaap. It was totally a new venture where different raw materials were tried out to make handmade paper. After researching a lot, they found that elephant dung had more fibre content which made it easy to make handmade paper. This entrepreneur is an example to contradict the normal myth that exists in entrepreneurship. Identify the myth and explain it. Name any two more myths related with entrepreneurship.

5. Meena Sharma started Hathi Chaap. It was totally a new venture where different raw materials were tried out to make handmade paper. After researching a lot, they found that elephant dung had more fibre content which made it easy to make handmade paper. This entrepreneur is an example to contradict the normal myth that exists in entrepreneurship. Identify the myth and explain it. Name any two more myths related with entrepreneurship.

6. Gautam, is a young underemployed youth belonging to the backward village of Rampur. His friend advise him to start a business saying that there are many government schemes launched for the development of entrepreneurs in the country. Is the assertion of Gautam's friend correct? Also, explain three schemes which are offered by government to enterprises.

7. Rahul is a renowned entrepreneur. His friend Rohit passed his MBA exam recently. As Rohit wanted to opt for a profitable career, so he asked Rahul to suggest some career options. Rohit suggest him to be an entrepreneur by explaining different advantages related to it. In context of the above situation, explain any three advantages of entrepreneurs.

ECONOMICS	**I)PROJECT REPORT** **Prepare a Project Report on the impact of the following on the PPC of an economy(use diagrams):** 1. **Government Policies promoting education.** 2. **Foreign Investment** 3. **Globalisation** 4. **Excessive taxation** 5. **Technological advancements** **Note:** **Use single line side page to write your project .** **Draw relevant picture (Use White sheet or page)** **Project should be completely handwritten .** **Project should have the following:** 1. **Index** 2. **Acknowledgement** 3. **Introduction to the topic** 4. **Content of the project** 5. **Conclusion** 6. **Bibliography** **Follow all the instructions given in class related to the project work.** **II) Answer the following questions:(to be written in notebooks)** **1.Read the following Case Study carefully and answer the questions on the basis of the same:** **Unpublished data or literature is known as grey literature in research. (The term 'grey literature' also includes data published in a non-commercial form, such as a conference proceeding.) These data are collected by the government organisations and others, generally for their self-use or office record. Unpublished data is useful mainly in secondary research, such as literature reviews ematic reviews. It provides pointers to new research and perhaps also research paths to avoid. Preprints are a growing form of unpublished data these days and have proved very useful in guiding research in critical areas such as COVID-19. Published sources of secondary data are government publications, semi-government publications, publications of research institutions, international publications etc.** **i)_____ data are collected from published or unpublished reports. (Primary/ Secondary)**

	ii) In the case of a _____, answers are to be written by the enumerators specifically hired for the purpose. (Questionnaire/ Schedule)
	iii)_____ publish data relating to education, health, births and deaths. (Government publications/ Semi-Government Publications)
	iv) 76th round of NSSO was on _____ (Persons with disabilities and drinking water/ density of population)
	2.Describe the impact of a natural disaster on a country's PPC and give an example.
	3.From the scheduled PP evaluate MRT of good X:
	
	Production of X units Production of Y units
	    0 14
	    1 13
	    2 11
	    3 8
	    4 4
	4.The government and policy makers use statistical data to formulate suitable policies of economic development. Illustrate with two examples.

GEOGRAPHY	1. Physical and human factor both are dynamic but not static in nature. Explain. 2. India always get benefit for having long coastline . Justify the statement. Map Work 3. On a political outline map of India locate and label the followings points A. Southernmost neighbouring country of India B. Eastern most neighbouring country of India. C. Standard Meridian of India. D. Palk strait. E. Gulf of Mannar. 4. On a physical outline map of India locate and label the following points. A. Karakoram range . B. Nanda Devi. C. Palghat Pass . D. Garo Hill. E. Konkan coast.

HISTORY	## Part A: ANSWER THE FOLLOWING QUESTIONS 1. Write Geographical features and extent of Mesopotamia Civilization ? 2. To what extent the clay tablet did prove helpful to archaeologists ? 3. How many types of settlements formed cities in Mesopotamia ? 4. Discuss whether city life would have been possible without the use of metals. 5. How the Mesopotamian story that mentioned in Bible are analogous ? **Part B: Source-Based Questions** **Refer to the given extract (from NCERT textbook):** "The clay tablets on which writing was done were not very durable, but they were nearly indestructible as long as they were kept dry. Hundreds of thousands have survived, and archaeologists have discovered them in temples, palaces, homes, and schoolrooms." **Answer the following (30–50 words each):** 1. What does the survival of clay tablets tell us about the importance of writing in Mesopotamia? 2. Why were tablets found in temples and palaces? What does this indicate about those institutions? **Part C: Project Work** **Choose any ONE of the following tasks:** 1. **Make a Model or Drawing**: Create a labeled model or drawing of a Mesopotamian city (like Ur or Uruk) showing key features: ziggurat, streets, homes, canals, etc. 2. **Create a Cuneiform Tablet Replica**: Use clay or cardboard and sketch some basic cuneiform signs. Label them with meanings.

POLITICAL SCIENCE	**PART– A : SOURCE BASED QUESTIONS:**
	
	Refer to the given extract (from NCERT textbook):
	In most countries, 'Constitution' is a compact document that comprises a number of articles about the state, specifying how the state is to be constituted and what norms it should follow. When we ask for the constitution of a country we are usually referring to this document. But some countries, the United Kingdom for instance, do not have one single document that can be called the Constitution. Rather they have a series of documents and decisions that, taken collectively, are referred to as the constitution.
	
	ANSWER THE FOLLOWING QUESTIONS:
	    1. What do you mean by a Constitution?
	    2. Explain the five functions of a Constitution.
	    3. Differentiate between (a) Rigid and Flexible Constitution and (b) Written and Unwritten Constitution.
	    4. Why is the Indian Constitution known as "a bag of borrowings"?
	    5. Mention some features of the Cabinet Mission Plan.
	
	PART– B : TO PREPARE A PROJECT ON ANY TOPIC OF YOUR CHOICE
	
	FORMAT TO BE FOLLOWED:-
	Ki
	a) 1st Page-Name of the school, Investigatory Project, Name, Class, Section, Roll no., Subject, Guide Teachers' Name
	b) 2nd Page-Certificate
	c) 3rd Page-Acknowledgement
	d) 4thPage-Index
	e) 5thPage-Aim/Objective
	f) 6th Page onwards-Project Report
	g) Conclusion
	h) Bibliography
	# Maximum no.of page should not exceed 20
	# Project is to be written in shoelace file
	# Project should be handwritten
	# Pictures/diagrams(coloured) may be pasted
	
	SUGGESTED TOPICS FOR THE INVESTIGATORY PROJECT
	    a) Freedom
	    b) Equality

	c) Social Justice d) Election and Representation e) Legislature f) Judiciary

COMPUTER SCIENCE	**DESCRIPTIVE QUESTIONS**
	1. What is software? Explain different types of software.
	2. What is the function of main memory? What are the measuring units of memory?
	3. Convert the following into decimal.
	
	    a. $(10011)_2$, $(760)_8$, $(AB0)_{16}$
	
	    b. $(11100)_2$, $(127)_8$, $(FAB)_{16}$
	4. Convert the following into binary, octal and hexadecimal.
	
	    a. $(590)_{10}$, $(441)_{10}$, $(2065)_{10}$, $(1680)_{10}$
	
	5. What are literals in Python? How many types of literals are allowed in Python?
	
	PRACTICAL/PROJECT
	
	1. WAP in python to input two numbers, calculate and print their addition, subtraction, multiplication and division.
	
	2. WAP in python to input the radius of a circle and print its area and circumference.
	
	3. WAP in python to input temperature in Celsius and convert it into Fahrenheit.
	
	4. WAP in python to input principal, rate and interest, calculate and print the simple interest.
	
	5. WAP in python to calculate the quadratic equation.(ax^2 + bx + c = 0, where a, b and c are real numbers and a ≠ 0)
	
	6. WAP in python to input two numbers, calculate and print their LCM.
	7. WAP in python to input two numbers, check and print the greatest number.
	8. WAP in python to input a number, check and print whether the number is odd or even.
	9. WAP in python to input a number and print its multiplication table.
	10. WAP in python to print 1 to 100 using loop.

| IP | **DESCRIPTIVE QUESTIONS**

1. What is software? Explain different types of software.

2. What is the difference between an interpreter and a compiler?

3. What is the difference between a keyword and an identifier?

4. What is the Dynamic Typing feature of Python?

5. What are literals in Python? How many types of literals are allowed in Python?

PRACTICAL/PROJECT

1. WAP in python to input two numbers, calculate and print their addition, subtraction, multiplication and division.

2. WAP in python to input the radius of a circle and print its area and circumference.

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4. WAP in python to input principal, rate and interest, calculate and print the simple interest.

5. WAP in python to calculate the quadratic equation.(ax^2 + bx + c = 0, where a, b and c are real numbers and a ≠ 0)

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9. WAP in python to input a number and print its multiplication table. |