

Subject	Question
English	<p>Q1. Report Writing: On the occasion of a ‘World Reading Day’ your Junior College had organised a visit to a city library. Imagine you are an editor of your Junior College magazine. Write a report in about 100–150 words giving the details of your visit.</p> <p>Q2. Compering: Imagine, you are one of the members of the cultural committee of your college and you are given the responsibility of a <i>compere</i> at a cultural programme. You may take help of the given points:</p> <ul style="list-style-type: none"> ● Welcome – lighting of the lamp ● Introduction ● Felicitation ● Cultural programme ● Presidential address ● Vote of thanks <p>Draft the whole programme script to decide the flow of the programme.</p> <p>Q3. Email Writing: Write an email to the customer care of an online shopping website complaining about a defective product you received and requesting a replacement.</p> <p>Q4. Blog Writing: Write a blog in a proper format on the following topic in about 100 to 150 words. Save the Environment. Hints- Explain the term, give its importance in life, and suggest ways for saving the environment.</p>
Physics	<p>Q1. Define absolute error, mean absolute error, relative error and percentage error</p> <p>Q2. Define average velocity and instantaneous velocity. When are they same? Define free fall.</p> <p>Q3. Distinguish between: (A) Real and pseudo forces, (B) Conservative and non-conservative forces.</p> <p>Q4. What is ideal gas equation.</p> <p>Q5. What is Doppler effect?</p> <p>Q6. What are different types of dispersions of light? Why do they occur?</p> <p>Q7. Distinguish between intrinsic semiconductors and extrinsic semiconductors.</p> <p>Q8. State any four applications of a communication satellite</p>
Chemistry	<p>Q.1 What are the consequences of Schottky defect?</p> <p>Q.2 What is van't Hoff factor? How is van't Hoff factor related to degree of ionization?</p> <p>Q.3 Derive the relationship between degree of dissociation and dissociation constant in weak electrolytes.</p> <p>Q.4 Derive the relation $\text{pH} + \text{pOH} = 14$.</p> <p>Q.5 State second law of thermodynamics in terms of entropy</p> <p>Q.6 What are anode and cathode of H₂ - O₂ fuel cell ? Name the electrolyte used in it. Write electrode reactions and net cell reactions taking place in the fuel cell.</p> <p>Q.7 Derive the integrated rate law for first order reaction.</p> <p>Q.8 What is meant by ‘shielding of electrons’ in an atom?</p>

	<p>Q.9 . Give the reagents and conditions necessary to prepare phenol from a. Chlorobenzene b. Benzene sulfonic acid.</p> <p>Q.10 Explain Gabriel phthalimide synthesis.</p>
Biology	<p>Q1. Explain the characteristics of living organisms.</p> <p>Q2. Explain the hierarchy of classification with examples.</p> <p>Q3. Explain structure and functions of mitochondria.</p> <p>Q4. Differentiate between xylem and phloem.</p> <p>Q5. Describe the structure of a typical flower.</p> <p>Q6. Explain transpiration and its types.</p> <p>Q7. Explain glycolysis.</p> <p>Q8. Explain structure of nephron.</p>
Geography	<p>Q1: Define Geography. Explain the major branches of Geography in detail with suitable examples.</p> <p>Q2: Explain the concepts of Latitude and Longitude. State their importance in locating places on the Earth.</p> <p>Q3: Explain the rotation and revolution of the Earth and their effects.</p> <p>Q4: Describe the structure of the Earth's interior with the help of a neat diagram.</p> <p>Q5: What are rocks? Explain the types of rocks with suitable examples.</p> <p>Q6: Differentiate between Weather and Climate. Explain the elements of weather in detail.</p> <p>Q7: Explain the structure of the atmosphere with a suitable diagram.</p> <p>Q8: What are natural resources? Explain their types and importance.</p>
Maths	<p>Paper 1:</p> <p>Q1.</p> <p>If $[a_{ij}]_{3 \times 3}$ where $a_{ij} = 2(i-j)$. Find A and A^T. State whether A and A^T are symmetric or skew symmetric matrices ?</p> <p>Q2. If A(2, 0) and B(0, 3) are two points, find the equation of the locus of point P such that $AP = 2BP$.</p> <p>Q3. Obtain the equation of the line :</p> <p>a) parallel to the X-axis and making an intercept of 3 unit on the Y-axis.</p> <p>b) parallel to the Y-axis and making an intercept of 4 unit on the X-axis.</p> <p>Q4. Find the equation of a circle whose centre is (-3, 1) and which pass through the point (5, 2).</p> <p>Paper 2:</p> <p>Q1. If w is a complex cube root of unity, then prove that</p> <p>i) $\frac{1}{w} + \frac{1}{w^2} = -1$</p> <p>ii) $(1+w^2)^3 = -1$</p> <p>iii) $(1-w+w^2)^3 = -8$</p> <p>Q2.</p> <p>Find the domain of $f(x) = \sqrt{6-2^x - 2^{3-x}}$</p> <p>Q3. Determine whether the function</p>

	$f(x) = \frac{2x+1}{x-3}$ has inverse, if it exists find it.
IT	<p>Q1. Write down the difference between LAN, MAN and WAN.</p> <p>Q2. Define the terms (1) Ethics (2) Moral</p> <p>Q3. Explain Operating Systems for Mobile Phones?</p> <p>Q4. What are the advantages of a DBMS?</p>
Hindi	<p>Q1. बिजली की आपूर्ति की शिकायत पर पत्र का नमूना तयार करे</p> <p>Q2. पर्यावरण रक्षा में पेड का महत्व इस विषय में निबंध लिखिए</p> <p>Q3. भारत की राष्ट्रीय एकात्मता में भारत के सभी राज्यों का अपना योगदान पर निबंध लिखिए</p> <p>Q4. अविकारी शब्दों के भेद लिखिए</p>
Marathi	<p>Q1. खालील विषयांवर ब्लॉग लिहा. – फेसबुक मैत्री : आवश्यक की अनावश्यक</p> <p>Q2. आत्मवृत्तात्मक निबंध लिहा - मी वृक्ष बोलतोय</p> <p>Q3. महाराज आणि बेबी यांच्या विचारातील संघर्ष लिहा.</p> <p>Q4. उत्तम सूत्रसंचालनासाठीची आवश्यक असलेली कौशल्ये स्पष्ट करा.</p>
CS I	<p>Q1. What is a linked list?</p> <p>Q2. Explain the following data structures with suitable diagram.</p> <p>Q3. What are types of binary tree? Explain it with suitable example.</p> <p>Q4. What is Binary Tree? With a suitable example, explain the terminology.</p> <p>Q5. Linear array, b) Linked list, c) Tree</p> <p>Q6. Write the difference between linear search and binary search.</p> <p>Q7. What is operating system? Explain major services of OS.</p> <p>Q8. What is a record? How it differs from a linear array?</p> <p>Q9. What is searching? Explain binary search algorithm.</p> <p>Q10. What is sorting? Explain bubble sorting algorithm.</p>
CS II	<p>1. What is Microprocessor? Write the features/functions of 8085</p> <p>2. What is the purpose of following registers in 8085 processors?</p> <ul style="list-style-type: none"> · i) HL pair · ii) Stack pointer · iii) Program Counter <p>3. With the help of suitable examples, explain direct and immediate addressing modes in 8085.</p> <p>4. Explain the following:</p> <ol style="list-style-type: none"> 1. Address bus 2. Data bus 3. Control bus <p>5. What is the function of following register in 8085 processor?</p> <ul style="list-style-type: none"> · i) Accumulator · ii) Program counter · iii) Flags · iv) stack pointer <p>6. Write the functions of each of the following devices in short:</p> <ul style="list-style-type: none"> · a) Modem, b) router, c) hub, d) repeater <p>7. Define topology. Explain STAR and RING topologies with diagram.</p>

	8. Explain WAN, MAN and LAN. 9. What do you mean by network topology? Explain in brief the two basic categories of topology. 10. Explain why wireless networks are useful?
EVS	A Project Report on “Impact of Plastic Pollution on Marine Life”
HPE	A Report of Athletics Games

For Submission

Students are required to submit the same on 04th May, 2026 between 9.30am to 1.00 pm in Room No. 101. Any query contact office :- 9321074000/9321073000