

HOLIDAY HOMEWORK / CLASS: XI / 2018-19

	English
	1. Module 1 (Reading) Worksheet 1 to 4 2. Module 3 (Writing) – Q11 & 12 (Poster Writing)
	Note: - Reinforce your vocabulary, read newspaper (editorial section) everyday and improve your writing skills.
	Maths
	<p>Do the following questions</p> <p>In a group of 84 persons, each plays at least one game out of the three viz., tennis, badminton and cricket. 28 of them play cricket, 40 play tennis and 48 play badminton. If 6 play both cricket and badminton and 4 play tennis and badminton and no one plays all the three games, find the number of persons who play cricket but not tennis.</p> <p>1. Find range and domain of following functions</p> <p>(a) $f(x) = \sqrt{\frac{x^2-4}{x^2-9}}$ (b) $f(x) = \frac{ x -1}{2- x }$</p> <p>2. A survey of 500 television viewers produced the given information: 285 watch football, 195 watch hockey, 115 watch cricket, 45 watch football and cricket, 70 watch football and hockey, 50 watch cricket and hockey, 50 do not watch any of the three games. How many watch exactly one of the three games?</p> <p>3. Draw the graph of the following:</p> <p>(i) $f(x) = x + x$ (ii) $f(x) = x x$ (iii) $f(x) = \frac{x+1}{x+3}$ (iv) $\begin{cases} 3x+1, & x < -1 \\ x^2+1, & -1 \leq x \leq 3 \\ x^3, & x > 4 \end{cases}$</p> <p>4. Out of 100 students: 15 passed in English, 12 passed in mathematics, 8 in science, 7 in science and mathematics, 6 in English and mathematics, 4 in English and science and 4 in all three subjects. Find how many passed (i) in English and mathematics but not in science? (ii) in science and mathematics but not in English? (iii) in mathematics only? (iv) in more than one subject?</p> <p>5. Using set laws prove that (i) $A - (B \cap C) = (A - B) \cup (A - C)$ (ii) $A - (B \cup C) = (A - B) \cap (A - C)$</p> <p>6. Prove for any three sets A, B and C that $A \cap (B \Delta C) = (A \cap B) \Delta (A \cap C)$</p> <p>7. In a town of 1000 people, it was found that 40% of the people buy newspaper A, 20% buy newspaper B and 10% buy newspaper C, 5% buy A and B, 3% buy B and C and 4% buy A and C and 2% buy all the three newspapers. Find the number of people that buy (i) only A (ii) only B (iii) none of A, B and C.</p> <p>8. A relation R on $N \times N$ is defined as $(a,b)R(c,d) \text{ iff } (a+d)(bc) = (b+c)ad \quad \forall (a,b), (c,d) \in N \times N.$ (i) Is $(a,b)R(a,b) \quad \forall (a,b) \in N \times N$? (ii) Is $(a,b)R(c,d) \Rightarrow (c,d)R(a,b) \quad \forall (a,b), (c,d) \in N \times N$? (iii) Is $(a,b)R(c,d) \& (c,d)R(e,f) \Rightarrow (a,b)R(e,f) \quad \forall (a,b), (c,d), (e,f) \in N \times N.$ justify your answer in each case</p> <p>9. A relation R on $R - \{0\}$ is defined as $R = \left\{ (a,b) : 11 + \frac{a}{b} \leq 0, a,b \in R - \{0\} \right\}.$ (i) Is $(a,a) \in R \quad \forall a \in R - \{0\}.$ (ii) Is $(a,b) \in R \Rightarrow (b,a) \in R \quad \forall a, b \in R - \{0\}.$ (iii) Is $(a,b) \in R \& (b,c) \Rightarrow (a,c) \in R \quad \forall a,b,c \in R - \{0\}.$ justify your answer in each case.</p>

	<p>Physics</p> <p>(a) Prepare one investigatory project or working model on any specific topic of physics along with file.</p> <p>(b) Prepare activity file.</p>																						
	<p>Chemistry</p>																						
	<p>Q1. Prepare an investigatory project on any specific topic of chemistry along with file. Instructions for making of the project are as follows:</p> <p>It must be handwritten in your neat handwriting. It should include the main topic, certificate, acknowledgement followed by the index and main content.</p> <p>a) Project must be neat and clean. b) Make it more interesting by pasting pictures, photographs or samples wherever required. c) Last page includes conclusion of the experiment and then ends with bibliography. d) Selection of topic is as per the contents given in the syllabus (lab manual) or can search at cbse.nic.in e) Analyze your result of the experiment in proper observation table with proper data. h) You can take the help of reference books, lab manuals or go through CBSE site etc.</p>																						
	<p>Biology</p>																						
	<p>Prepare one investigatory project on any specific topic of Biology along with file.</p>																						
	<p>Accountancy</p>																						
	<p>Approach a business entity and collect two copies each of the following source documents prepared by them for the process of accounting:</p> <table border="1" data-bbox="165 1055 1179 1167"> <tr> <td>Cash Memo</td> <td>Invoice</td> <td>Pay-in-slip</td> <td>Cheque</td> <td>Debit Note</td> </tr> <tr> <td>Receipt</td> <td>Cash-Voucher</td> <td>Non-Cash Voucher</td> <td>Credit Note</td> <td>Blank Vouchers</td> </tr> </table> <p>After doing the above work you are required to prepare the imaginary vouchers for the following transactions:</p> <table border="1" data-bbox="165 1279 1382 1503"> <tr> <td>Cash Purchase of goods</td> <td>Cash payment of expenses</td> <td>Cash purchase of fixed asset</td> <td>Cash payment to creditor</td> </tr> <tr> <td>Credit purchase of goods</td> <td>Credit sale of goods</td> <td>Credit purchase of fixed asset</td> <td>Cash received from debtor</td> </tr> <tr> <td>Providing depreciation</td> <td>Cash sale of goods</td> <td></td> <td></td> </tr> </table>	Cash Memo	Invoice	Pay-in-slip	Cheque	Debit Note	Receipt	Cash-Voucher	Non-Cash Voucher	Credit Note	Blank Vouchers	Cash Purchase of goods	Cash payment of expenses	Cash purchase of fixed asset	Cash payment to creditor	Credit purchase of goods	Credit sale of goods	Credit purchase of fixed asset	Cash received from debtor	Providing depreciation	Cash sale of goods		
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	<p>Business Studies</p>																						
	<p>You are required to select one business unit working as an auxiliary to trade in your area like a bank, a transport firm etc. Interview the owner/manager of the selected business unit to understand nature and scope of its business, stake holders involved and other aspects as outlined below:</p> <p>(i) Their Way of working, regulatory mechanism and their market segment. (ii) Their importance in conducting business activities & their role in growth and expansion of business system. (iii) Types of Clients they are dealing and facilities provided. (iv) Effect on prices in the absence of effective transport (v) Duties performed by the warehouses. (vi) Terminology used and their meaning. (vii) Role of auxiliaries in the pricing of the products. (viii) Social responsibilities discharged by them.</p> <p><u>Essentials of submission:</u></p> <p>(a) The whole project should be prepared in A4 format and presented in a neat spiralled folder.</p>																						

<p>(b) The project must be hand written. (c) The total length of the project must be 25-30 pages. (d) Students must make extra efforts to give proof of the research work done by them like photographs , written certificate of visit by the owner/manager etc. It is the responsibility of the student to prove the authenticity of his project work.</p>																					
<p>Economics</p>																					
<p>Prepare a Project Report on any of the following topics :</p> <p>a) PPC and its relevance b) Demand and its determinants c) Consumer Equilibrium Analysis</p>																					
<p>Informatics Practices</p>																					
<p>Write MySQL commands for the statements that follow.</p> <p>a. Create a database 'Library'. b. Create a table 'Books' with the following specifications in the above database:</p> <table border="1" data-bbox="159 739 1117 1030"> <thead> <tr> <th>Field Name</th> <th>Datatype</th> <th>Constraint</th> </tr> </thead> <tbody> <tr> <td>BookAccNo</td> <td>Varchar(10)</td> <td>Primary key</td> </tr> <tr> <td>BName</td> <td>Varchar(50)</td> <td>Not Null</td> </tr> <tr> <td>Price</td> <td>Float(9, 2)</td> <td></td> </tr> <tr> <td>Author</td> <td>Varchar(20)</td> <td></td> </tr> <tr> <td>Publisher</td> <td>Varchar(30)</td> <td></td> </tr> <tr> <td>Edition</td> <td>SmallInt</td> <td></td> </tr> </tbody> </table> <p>c. Insert five records in the tables. d. Display the structure of the table. e. Show all the records inserted in the table. f. Display the list of books with their author and publisher. g. Display those books that cost more than Rs. 500. h. Show only those books which have been published by 'Oxford' or 'MacMillan'. i. Show the records of those books which contain 'India' in the title. j. Show all the latest edition books with their name, publisher and price. The above assignment should be done in IPr Practical file.</p>	Field Name	Datatype	Constraint	BookAccNo	Varchar(10)	Primary key	BName	Varchar(50)	Not Null	Price	Float(9, 2)		Author	Varchar(20)		Publisher	Varchar(30)		Edition	SmallInt	
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<p>PHE</p>																					
<p>1. Draw a labelled diagram of 400 M-Track and Field with all its computations. 2. Give explanation and list of current National Awardees(Dronacharya Award, Arjun Award and Rajiv Gandhi Khel Ratna Award) 3. Give pictorial presentation of any five Asanas for improving concentration</p>																					