

Holiday H.W. has to be done in the H.W. copy in case no separate instructions are given.

English	Q.1 Do worksheets 1, 2 of Module 1 in bbc (Reading Comprehension page no. 13-18). Q.2 Do worksheet 101 of Module 6 in bbc (Grammar- Sentence Re-ordering page no. 379, 380)																						
Maths	<p>Do the following questions</p> <ol style="list-style-type: none"> In a referendum about three proposals, 78% of the people were against at least one of the proposals. 50% of the people were against proposal n1, 30% against proposal n2, and 20% against proposal n3. If 5% of the people were against all the three proposals, what percentage of people was against more than one of the three proposals? In a club, all the members are free to vote for one, two or three of the candidates. 20% of the members did not vote. 38% of the total members voted for at least two candidates. What percentage of the members voted for either one or three candidates if 10% of the total members who voted, voted for all the three candidates? There is a shortage of tube lights, bulbs and fans in a village. It is found that <ul style="list-style-type: none"> • All houses do not have either tube light or bulb or fan. • exactly 19% of houses do not have just one of these. • at least 67% of houses do not have tube lights. • at least 83% of houses do not have bulbs. • at least 73% of houses do not have fans. What percentage of houses has (i) all three items tube light, bulb and fan missing? (ii) exactly 2 items missing? Prove that $A \cup B \cup C = (A \cup B) \cup C = A \cup (B \cup C)$. If A and B are disjoint sets then prove that $A \cap (A \cup B) = A$. For any four sets A, B, C, and D, can you say $A \cap B \cap C \cap D = (A \cap B) \cap (C \cap D)$? justify your answer. Solve: $\frac{20}{x-3} - \frac{10}{x-4} = 1$ A relation R on $N \times N$ is defined as $a, b R c, d$ iff $a \leq d$ and $b \leq c$ and $a, b, c, d \in N$. (i) Is $a, b R a, b$ for $a, b \in N$? (ii) Is $a, b R c, d$ and $c, d R a, b$ for $a, b, c, d \in N$? (iii) Is $a, b R c, d$ & $c, d R e, f$ implies $a, b R e, f$ for $a, b, c, d, e, f \in N$. A relation R on $R - \{0\}$ is defined as $a, b R$ iff $\frac{a}{b} \in \mathbb{Z}$. (i) Is $a, a R$ for $a \in R - \{0\}$? (ii) Is $a, b R$ and $b, a R$ for $a, b \in R - \{0\}$? (iii) Is $a, b R$ & $b, c R$ implies $a, c R$ for $a, b, c \in R - \{0\}$. Draw the graph of the following: <ol style="list-style-type: none"> (i) $f(x) = x x$ (ii) $f(x) = x x$ (iii) $f(x) = \frac{x-1}{x+3}$ (iv) $f(x) = \frac{3x-1}{x^2+1}$ 																						
Physics	Prepare one investigatory project or working model along with file.																						
Chemistry	Q1. Why is electronic energy negative? Comment on the spacing between energy levels. Q2. How many radial and angular nodes will be there in 5f orbital? Q3. Why are the spectral lines of atoms regarded as the finger prints of the elements? Q4. Explain why half filled and fully filled sub shells have extra stability. Q5. Differentiate between: a) orbit and orbital (b) isotopes and isobars (c) emission and absorption spectra Q6. Explain photoelectric effect and black body radiation and how these properties led to the concept of particle nature of electromagnetic waves. Q7. What is meant by dual nature of a particle? State De Broglie relation. Q8. State and explain Pauli's exclusion principle and Heisenberg's uncertainty principle. Q9. State and illustrate Hund's rule of maximum multiplicity. Q10. Calculate the wavelength, frequency and wave number of a light wave whose period is 2×10^{-10} s.																						
Biology	Prepare a project on any specific topic of Biology.																						
Accountancy	Based on your study of Unit 1 and Unit 2, prepare a project. Approach a business entity and collect two copies each of the following source documents prepared by them for the process of accounting: <table border="1" style="width: 100%; margin-top: 10px;"> <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> Now prepare the imaginary vouchers for the following transactions: <table border="1" style="width: 100%; margin-top: 10px;"> <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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B.St	<p>Based on your study of Ch-1'Auxiliaries to Trade' prepare a project selecting 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> <ol style="list-style-type: none"> (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><u>Essentials of submission:</u></p> <ol style="list-style-type: none"> (a) The total project should be prepared in the file format and presented in a neat folder. (b) The project must be hand written. (c) The total length of the project must be 25-30 pages. <p>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. The student has to prove the authenticity of his project work.</p>																					
Economics	<p>Q.1 Prepare a project report to analyse how much our consumers are aware about their rights while buying a product. You can cover following points:</p> <ol style="list-style-type: none"> a) Awareness regarding Standardisation marks (AGMARK, ISO,ISI etc) b) Awareness regarding statutory requirements a product should fulfill c) Awareness regarding fair price shops of govt. d) Awareness regarding right to lodge a complaint e) With the help of internet, find out at least two cases filed by consumers in the consumer court . Also mention the decision given by the court. f) Find out a few organisations who are working to spread consumer awareness. <p style="text-align: center;">OR</p> <p>Select any product & conduct a survey in the market to find most popular brand of that product. Also find out reasons behind popularity. You can cover following points:</p> <ol style="list-style-type: none"> a) Guiding factors while buying the product (quality, price, brand name etc.) b) Income group c) Basis of selection(Advertisement, price, recommendations etc.) (Use statistical tools of classification, tabulation & diagrammatic presentation for data analysis) <p>Q.2 Refer to reliable sources to collect data related to population census of India -2011. Present data related to population density, sex ratio, per capita income in different states with the help of diagrams.</p>																					
Informatics Practices	<p>Q.1 Write MySQL commands for the statements that follow.</p> <ol style="list-style-type: none"> 1. Create a database 'Shop'. 2. Create a table 'Medicine' with the following specifications: Table : Medicine <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr> <th>Field Name</th> <th>Data type & size</th> <th>Constraint</th> </tr> </thead> <tbody> <tr> <td>BatchNo</td> <td>Int</td> <td>Primary Key</td> </tr> <tr> <td>MedNm</td> <td>Varchar (20)</td> <td>Not Null</td> </tr> <tr> <td>DOM</td> <td>Date</td> <td></td> </tr> <tr> <td>YOExp</td> <td>Year (4)</td> <td></td> </tr> <tr> <td>Company</td> <td>Varchar(30)</td> <td></td> </tr> <tr> <td>Cost</td> <td>Float (7,2)</td> <td></td> </tr> </tbody> </table> <ol style="list-style-type: none"> 3. Insert 5 records and write MySQL queries for the following statements: 4. Display the details of all the medicines. 5. Display those records where date of manufacture is from 1st January 2017 to 31st December 2017. 6. Show the price of the medicines increased by 10% for "Himalaya" company. 7. Show the records of the medicines of "Ranbaxy" company. 8. Display the names of the medicines, company and cost of those medicines whose names start with "C" and are priced above 100. 9. List the details of those medicines which are manufactured by "Cipla" and expire this year. 10. Display the Batch number , name and year of expiry of those medicines which will expire in 2017and 2019. <p>Enter relevant data in the table. It should not return empty set. The above assignment should be done in IPr Practical file.</p>	Field Name	Data type & size	Constraint	BatchNo	Int	Primary Key	MedNm	Varchar (20)	Not Null	DOM	Date		YOExp	Year (4)		Company	Varchar(30)		Cost	Float (7,2)	
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Physical Education	<ol style="list-style-type: none"> 1. Draw a neat diagram of Standard Track with all its specifications. Mention all the Track and Field Events. 2. Mention the latest records at Indian, World and Olympic Level of all the events of Track and Field. 																					