



SelaQui

INTERNATIONAL SCHOOL

HOLIDAY HOMEWORK

JUNE 2021-22

Class 11 Commerce

Class Teacher

Mr. Dharendra Chauhan
dhirendrac@selaqui.org

S.No.	Subject	Teachers
1.	Economics	Mr. Anand Saraswat <u>anands@selaqui.org</u>
2.	Business Studies	Ms. Uday Gulati <u>udayg@selaqui.org</u>
3.	Physical Education	Mr. Dharendra Singh Chauhan <u>dhirendrac@selaqui.org</u>
4.	English	Ms. Gena Fazel <u>genaf@selaqui.org</u>
5.	Psychology	Dr. Parneet Kaur <u>counselor@selaqui.org</u>
6.	Fine Arts	Mr. Srikanta Goswami <u>srikantag@selaqui.org</u>
7	Accountancy	Ms. Uday Gulati <u>udayg@selaqui.org</u>
8	Mathematics	Amitava Bandopadhyay <u>amitavb@selaqui.org</u>
9	Computer sciences	Dr. Ashish vashistha <u>ashishv@selaqui.org</u>

Contents

Economics: 3

Business Studies: 5

Physical Education: 6

English: 7

Accountancy: 9

Psychology:..... 11

Fine Arts: 12

Mathematics:..... 15

Computer Science:..... 19

Economics:

- Students are supposed to pick any ONE of the many suggested **projects**.
- The project should be of 30-40 pages (approx.), preferably hand-written.

Project: What's going around us the purpose of this project is to –

- Enable the student to understand the scope and repercussions of various Economic events and happenings taking place around the country and the world. (e.g. The Dynamics of the Goods & Services Tax and likely impacts on the Indian Economy or the Economics behind the Demonetization of 500 and 1000 Rupee Notes and the Short Run and Long Run impact on the Indian Economy.)
- Provide an opportunity to the learner to develop economic reasoning and acquire analytical skills to observe and understand the economic events.
- Make students aware about the different economic developments taking place in the country and across the world.
- Develop the understanding that there can be more than one view on any economic issue and to develop the skill to argue logically with reasoning.
- Compare the efficacy of economic policies and their respective implementations in real world situations and analysis the impact of Economic Policies on the lives of common people.
- Provide an opportunity to the learner to explore various economic issues both from his/her day to day life and also issues which are of broader perspective. Scope of the project: Student may work upon the following lines:
 - Introduction
 - Details of the topic
 - Pros and Cons of the economic event/happening
 - Major criticism related to the topic (if any)
 - Students' own views/perception/ opinion and learning from the work
 - Any other valid idea as per the perceived notion of the student who is actually working and presenting the Project-Work. Mode of presentation and submission of the Project: At the end of the stipulated term, each student will present the work in the Project File (with viva voce) to the external examiner.

Marking Scheme: Marks are suggested to be given as –

S.No.	Heading	Marks Allotted
1.	Relevance of the topic	3
2.	Knowledge Content/Research Work	6
3.	Presentation Technique	3
4.	Viva	8
Total 20 Marks		

Suggestive List of Projects:

- ❖ Effect on PPC due to various government policies
- ❖ Invisible Hand (Adam Smith)
- ❖ Opportunity Cost as an Economic Tool (taking real life situations)
- ❖ Effect of Price Change on a Substitute Good (taking prices from real life visiting local market)
- ❖ Effect on equilibrium Prices in Local Market (taking real life situation or recent news)
- ❖ Effect of Price Change on a Complementary Good (taking prices from real life visiting local market)
- ❖ Solar Energy, a Cost-Effective Comparison with Conventional Energy Sources
- ❖ Bumper Production- Boon or Bane for the Farmer

- ❖ Any other newspaper article and its evaluation on basis of economic principles
- ❖ Any other topic

WORKSHEET -1
Case Study Questions
Theory of Demand - 01

Read the following Case Study carefully and answer the questions on the basis of the same:

If our income rises, we generally tend to buy more of the goods. More income would mean more pens, more shirts, more shoes, more cars and so on. But there are exceptions. If initially, you are buying coarse grain, how would you take your increase in income now? Perhaps, as a first step, you would discard the consumption of inferiors. Surely, this happens in the deserts of Rajasthan where the rich minority eats wheat while the poor majority eats Bajra as their staple food.

- i. The law of demand does not apply to _____ goods. (Normal/ Giffen's)
- ii. Inferior goods are those whose income effect is _____. (Negative/ Positive)
- iii. A fall in income of the consumer (in case of normal goods) will cause:
 - a. upward movement on the demand curve.
 - b. downward movement on the demand curve
 - c. rightward shift of the demand curve
 - d. leftward shift of the demand curve
- iv. As a result of rise in consumer's income, the demand curve for coarse grain. (inferior good)
 - a. becomes a horizontal straight line.
 - b. becomes a vertical straight line.
 - c. shifts to the right.
 - d. shifts to the left.

Business Studies:

SUMMER VACATION ASSIGNMENT

1. Make a mind map of the Chapter-1 The Nature and Purpose of Business
2. CASE STUDY
"Activities performed by the primary secondary and tertiary sector together help a product to reach the ultimate customer"
In light of the above statement choose 1 durable and 1 non durable product and trace their paths through the different sectors to the final customer highlighting each sectors contribution. Draw flowcharts diagrams or stick pictures to illustrate the topic.
3. Make a PPT showing Meaning, Features, Merits and Demerits of Sole Proprietorship, Partnership and Joint Hindu Family Business

Worksheet

- Q.1- Write the meaning of 'code of conduct' in profession?
- Q.2- Why would a business pursue social objectives?
- Q.3- "Risk is an essential element of a business". Explain.
- Q.4- "Commerce ensures free and smooth exchange by remaining various hindrances as obstacles in the way of exchange". Explain these hindrances.
- Q.5- Write a short note on: a> Nominal Partner b>Partnership at will c>Dormant/Sleeping Partner d>Partnership deed.
- Q.6- "One-man control is the best in world, if that one man is big enough to manage everything." Explain this statement.
- Q.7- Distinguish between:
- a) Sole partnership and partnership.
 - b) Joint Hindu family business and partnership.

Physical Education:

1. **Kindly involve in physical activities of your choice for atleast 30 mins daily. Refer following links for workout-**
 - a. **CARDIO-**
<https://www.youtube.com/watch?v=vI1Yf-MBczI>
 - b. **STRENGTH-** <https://www.youtube.com/watch?v=vI1Yf-MBczI>
 - c. **FLEXIBILITY-** <https://www.youtube.com/watch?v=qULTwquOuT4>
 - d. **BREATHING EXERCISES-**
<https://www.youtube.com/watch?v=Q6-ft6liSI4>
 - e. **CORE STRENGTH-**
<https://www.youtube.com/watch?v=N5ViYeGJOCA>

2. **Complete one project on Sport/Game of your choice in a file including following points-**
 - a. **History of Sport (Indian and International)**
 - b. **Introduction of Sport**
 - c. **Rules and regulations/ Laws of Sport**
 - d. **Basic Skills of Sport**
 - e. **Measurement and markings of court/field**
 - f. **Famous personalities (National and international)**
 - g. **Awardees of sport**

*******STAY HEALTHY STAY FIT*******

English:

Instructions -

Run your assignment through

a. Grammarly

b. dupliChecker.com and attach the report prior to submission.

Points 1 – 3 require research.

1. Read Maus. Analyse the following ideas in a 1000-word essay:

The book has been uploaded in the Spring 2021 folder.

- a. Historical background
- b. Use of artistic choice of animals,
- c. Black and white style,
- d. Storytelling by the author's father,
- e. The graphic novel medium
- f. Personal opinions, thoughts, reflections
- g. Compare and contrast it to Charlie Chaplin's Final Speech from The Great Dictator

<https://www.youtube.com/watch?v=J7GY1Xg6X20>

Hint: Supplementary readings can be found on Jstor.org

2. Read invisible Cities.

The book has been uploaded in the Spring 2021 folder.

Choose your favorite city and elaborate upon why it resonated with you. Do this in a 500-word paragraph.

Further elucidate upon a city (real or imagined) that you would like to visit, and why.

3. Movie review (1000 words) Midnight in Paris:

Pick out your favorite scene and explain why.

You are to analyze the

- a. cinematography,
- b. the ethical debate between the art and the creator (Woody Allen)
- c. character analysis.

4. Blackout poetry - Choose a page from the Arabian Nights, circle words to form a poem. Submit two such attempts. They should be coherent.

(Arabian Nights: <http://read.gov/books/pageturner/2003juv28132/#page/204/mode/2up>)

Examples:

<https://www.chino.k12.ca.us/cms/lib/CA01902308/Centricity/Domain/4327/Blackout%20Poetry.pdf>

5. Worksheet

Words are divided into different kinds or classes, called parts of speech, according to their use; that is, according to the work they do in a sentence. The parts of speech are eight in number.

A noun is a word used as the name of a person, place, or thing.

An adjective is a word used to add something to the meaning of a noun

A pronoun is a word used instead of a noun

A verb is a word used to express an action, event or state

An adverb is a word used to add something to the meaning of a verb

A preposition is a word used with a noun or a pronoun to show how the person or thing denoted by the noun or pronoun stands in relation to something else

A conjunction is a word used to join words or sentences

An interjection is a word which expresses some sudden feeling

Name the part of speech of each italicized word in the following sentences, giving in each case your reason for the classification.

1. *Still* waters run deep.
2. He *still* lives in that house.
3. *After* the storm comes the calm.
4. The *after*-effects of the medicine are bad.
6. It weighs *about* a pound.
7. He told us all *about* the battle.
8. He was only a yard *off* me.
9. Suddenly one of the wheels came *off*.
10. Muslims *fast* in the month of Ramzan.
11. He kept the *fast* for a week.
12. He is *on* the committee.
13. Let us move *on*.
14. Sit down and rest a *while*.
15. I will watch *while* you sleep.
16. They *while* away their evenings with books and games.

Accountancy:

ACCOUNTANCY- XI
SUMMER VACATION ASSIGNMENT

Day 1 & 2

Prepare a mind map of Chapter 1 Meaning and Objectives of Accounting

Day 3, 4 & 5

Prepare a PPT briefly explaining the meaning of Basic Terms of Accounting

Day 6 & 7

Prepare a PPT briefly explaining the Basic Accounting Concepts/Principles

Day 8

Collect the specimen of the following documents

Bank Passbook, Pay-in-slip, Cash Memo, Invoice, Withdrawal Form, Debit Voucher, Credit Voucher & Receipt

Day 9**Worksheet 1**

1. What will be the effect of the following on the Accounting Equation?
 - (i) Harish started business with cash ₹ 18,000
 - (ii) Purchased goods for Cash ₹ 5,000 and on credit ₹ 2,000
 - (iii) Sold goods for cash ₹ 4,000 (costing ₹ 2,400)
 - (iv) Rent paid ₹ 1,000 and rent outstanding ₹ 200
2. Prepare an Accounting Equation and Balance Sheet on the following basis:
 - (i) Ajeet started business with cash ₹ 20,000.
 - (ii) He purchased furniture for ₹ 2,000.
 - (iii) He paid rent of ₹ 200.
 - (iv) He purchase goods on credit ₹ 3,000.
 - (v) He sold goods (cost price ₹ 2,000) for ₹ 5,000 on cash.
3. Develop an Accounting Equation from the following transactions:

	₹
(i) Mohan commenced business with cash	50,000
(ii) Purchased goods for cash	30,000
(iii) Purchased goods on credit	20,000
(iv) Sold goods (costing ₹ 10,000) for	12,000
(v) Bought furniture on credit	2,000
(vi) Paid cash to a creditor	15,000
(vii) Salary paid	1,000

Day 10

Worksheet 2

1. Raghunath had the following transactions in an accounting year:

- (i) Commenced business with cash ₹ 50,000.
- (ii) Paid into bank ₹ 10,000.
- (iii) Purchased goods for cash ₹ 20,000 and credit ₹ 30,000.
- (iv) Sold goods for cash ₹ 40,000 costing ₹ 30,000.
- (v) Rent paid ₹ 500.
- (vi) Rent outstanding ₹ 100.
- (vii) Bought furniture ₹ 5,000 on credit.
- (viii) Bought refrigerator for personal use ₹ 5,000.
- (ix) Purchased motorcycle for cash ₹ 20,000.

Create an Accounting Equation to show the effect of the above and also show his Balance Sheet.

2. Show an Accounting Equation for the following transactions:

- (i) D. Mahapatra commenced business with cash ₹ 50,000 and ₹ 1,00,000 by cheque; goods ₹ 60,000; machinery ₹ 1,00,000 and furniture ₹ 50,000.
- (ii) 1/3rd of above goods sold at a profit of 10% on cost and half of the payment is received in cash.
- (iii) Depreciation on machinery provided @ 10%.
- (iv) Cash withdrawn for personal use ₹ 10,000.
- (v) Interest on drawings charged @ 5%.
- (vi) Goods Sold to Gupta for ₹ 10,000 and received a Bill Receivable for the same amount for 3 months.
- (vii) Received ₹ 10,000 from Gupta against the Bills Receivable on its maturity.

Psychology:

Kindly do your holiday assignment on sheets/paper to be put up in a separate file/folder.

1. Ask 10 of your classmates and friends about what they think of psychology. Draw a comparison between their views and the scientific explanation as done in Unit 1.
2. Interview a psychologist from any background; clinical, forensic, educational etc. You may use the platform (LinkedIn as discussed in Career Classes) to connect. Ask them about their typical day/routine, strengths and challenges they face. You are free to add questions of your choice to interview the concerned person.
3. Since you will be spending most of the time at home, observe your family members, siblings etc in your home (about the observation method). Note down their facial expressions, gestures etc).
4. Kindly complete the following **worksheet**
<https://learning.hccs.edu/faculty/deborah.ramos/psyc2301-18/introduction-to-psychology-worksheets/chapter-1-worksheets/view>

Reading Material

1. www.psychologytoday.com/us/articles/2010908/10-myths-about-the-mind
2. Interested to pursue a career in psychology. Find out how you can help people in the time to come - Online.maryville.edu/blog/future-psychology

Fine Arts:

Holiday Homework Painting



Details of Homework

*Students have to make **EIGHT** to **TEN** art works for their Practical.*

Size:- A3 will be better, A4 will be the second choice

Work Description



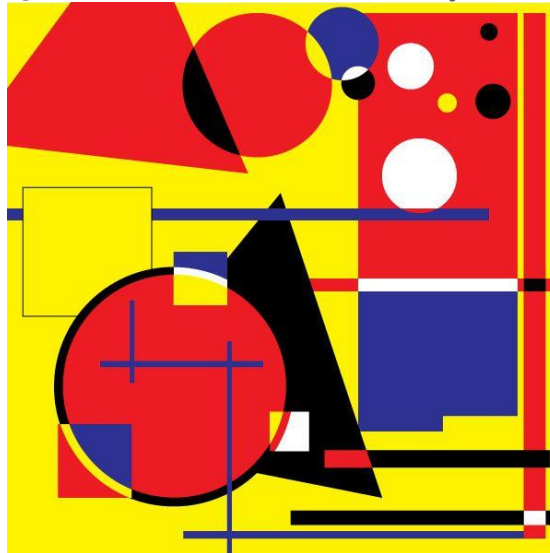
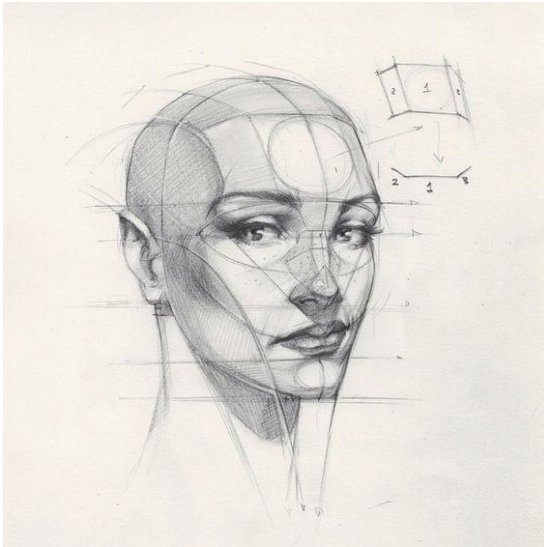
Still Life

Students have to make 03 still life Painting or pencil shading on A3 size paper with the using of three objects.



Landscape or Nature Study

Students have to make 03 Landscape Painting or pencil shading on A3 size paper.



Portrait Or Creative Composition

Students have to make minimum 02 portrait Painting on A3 size paper.

Students also can make minimum 02 creative Painting composition on A3 size paper.

Mathematics:

ACTIVITY :- 1

To find the Prime Numbers and Composite Numbers FROM 1 TO 100 using the SIEVE OF ERATOSTHENES

I) Material Required :- One A4 size paper, Ruler, Pencil & different colour pens.

ii) Aim of the activity :- To find the Prime Numbers and Composite Numbers FROM 1 TO 100 using the SIEVE OF ERATOSTHENES.

iii) What are Prime Numbers ?

iv) What are Composite Numbers ?

Made the chart and shade the prime numbers and composite numbers.

ACTIVITY :- 2

Using the RSA Algorithm find the code of the following Encrypted Data

The three following sets of numbers represent a possible basis for encryption coding:

(a) $p = 17, q = 37, e = 7$

(b) $p = 17, q = 37, e = 11$

(c) $p = 41, q = 53, e = 11$

Note :-

- 1. Write all the steps involved.**
- 2. Using of Calculators or Computers are allowed**
- 3. Write the solution of all the questions on white paper and make the pdf file and send it.**
- 4. All the questions are compulsory to solve.**

Topic :- Prime Numbers

Q.1 How many prime numbers lie between 1 & 100

Q.2 What is the sum of 1st and 6th prime numbers?

Q.3 Find the sum of prime number between 50 & 90

Q.4 What is the sum of squares of prime numbers between 50 & 60.

Q..5 What is the sum of squares of prime numbers between 40 & 45.

Q.6 Find the sum of the square of digits of largest 2 digit prime number

Q . 7 Find the product of prime numbers between 80 & 90.

Q . 8 Find the product of 4th prime number and prime number immediately less than 100.

Q. 9 What is the unit place in sum of cube of prime numbers between 10 & 15.

Q.10 Four prime numbers are arranged in ascending order, if product of first three & last three numbers are 385 and 1001 respectively. What is the smallest prime number.

Q. 12 Write the seven consecutive composite numbers between 1 & 100 so that there is no prime number between them.

Q. 13 Write all the pairs of twin prime between 40 & 100.

Q.14 Check the primality of

i) 251

ii) 297

iii) 451

- 1. Write the solution of all the questions on white paper and make the pdf file and send it.**
- 2. All the questions are compulsory to solve.**

WORKSHEET – 2

Topic :- Binary Numbers

Question 1

Convert the following decimal Numbers to Binary Numbers :-

- i)129 ii)250 iii)394 iv)437 v)517
 vi) 639 vii) 781 viii) 845 ix) 946 x) 1018

Question 2

Convert the following Binary Numbers to Decimal Numbers :-

- i)1110101100 ii)1011101111 iii)110110110
 iv)100010001 v)11111001

Question 3

Add the following binary numbers:

$\begin{array}{r} 10010 \\ + 1100 \\ \hline \end{array}$	$\begin{array}{r} 1011101 \\ + 1000000 \\ \hline \end{array}$	$\begin{array}{r} 10011 \\ + 1111101 \\ \hline \end{array}$
$\begin{array}{r} 10011001 \\ + 100111 \\ \hline \end{array}$	$\begin{array}{r} 11000011 \\ + 101111 \\ \hline \end{array}$	$\begin{array}{r} 1001100 \\ + 1100101 \\ \hline \end{array}$

WORKSHEET – 3

Topic :- Binary Numbers

Question :-1

Subtract the following Binary Numbers and check the result by converting them into decimal :

Subtract 111001 from 1100010

Subtract 1001010 from 1111110

Subtract 10011010 from 100011110

Subtract 101111011 from 1001001000

Question :-2

Multiply the following Binary Numbers and check the result by converting them into decimal :

Multiply 1001 by 101

Multiply 11010 by 111

Multiply 110110 by 10001

Multiply 1000011 by 1011

Question :-3

Divide the following Binary Numbers and check the result by converting them into decimal :

Divide 11100 by 111

Divide 101011 by 1001

Divide 11111111 by 111

Divide 100011101 by 101

Also write quotient and remainder in each case

Computer Science:

Independent Study –

Assignment 1

- Q 1 What is volatile memory?
- Q 2 Define each of the following:
 - a. byte (b) kilobyte (c) megabyte (d) gigabyte (e) terabyte:
- Q 3 State the basic units of computer. Name the subunits that make up the CPU, and give the function of each of the unit.
- Q 4 What is the function of memory? What are its measuring units?
- Q 5 Why is primary memory termed as “destructive write” memory but “non-destructive read” memory?
- Q 6 What is the role of CPU of a mobile system?
- Q 7 What are various categories of software?
- Q 8 What is the difference between an interpreter and a compiler?
- Q 9 What is application software? Why it is required?
- Q 10 Briefly explain the basic architecture of a computer.
- Q 11 Would you understand by device drivers ?
- Q 12 Differentiate between General purpose software and customized software
- Q 13 Categorise the following into customize software and general software

Ms paint

Word processor

Spreadsheet

Presentation software

Banking software

Railways reservation

Hotel management

School ERP system

- Q 14 Explain any 5 functions of operating system
- Q 15 What do you understand why spooling and buffering
- Q 16 What do you understand by CPU scheduling name any tools feasible scheduling used in computers

Assignment 2

1. Name the software required to make a computer functional. Write down its two primary services.
2. How does the computer understand a program written in high level language?
3. Why is the execution time of the machine code less than that of source code?
4. What is the need of RAM? How does it differ from ROM?
 1. What is the need for secondary memory?
5. How do different components of the computer communicate with each other?
6. Draw the block diagram of a computer system. Briefly write about the functionality of each component.

7. What is the primary role of system bus? Why is data bus is bidirectional while address bus is unidirectional?
8. Write equivalent memory units of the following:
 - a. 596 MB = _____ KB
 - b. 14 PB = _____ GB
 - c. 135 YB = _____ PB
 - d. 10000 MB = _____ PB
 - e. 1000000 KB = _____ GB

MCQ

- Q 1 The smallest unit in a digit system is
- (A) Byte
 - (B) Kilobyte
 - (C) Bit
 - (D) Character
- Q 2 A temporary storage area, attached to the CPU, for I/O operations is a
- (A) Core
 - (B) Register
 - (C) Buffer
 - (D) Chip
- Q 3 Real time computing is possible because of the following characteristic of computer
- (A) Accuracy
 - (B) Storage capability
 - (C) Versatility
 - (E) High speed
- Q 4 A permanent memory is called
- (A) ALU
 - (B) CPU
 - (C) ROM
 - (D) RAM
- Ans: C
ROM
- Q 5 Which of the following computer language is used for artificial intelligence?
- (A) C
 - (B) COBOL
 - (C) PROLOG
 - (D) FORTRAN
- Q 6 Which of the following does not store data permanently?
- (A) Hard Disk
 - (B) Floppy disk
 - (C) RAM
 - (D) ROM
- Q 7 What do you call a computer on a network that requests files from another computer?
- (A) A web server
 - (B) A router
 - (C) A host
 - (D) A client

Q 8 Storage device found inside the computer

- (A) CD-ROM
- (B) Hard Disk
- (C) Super Disk
- (D) Zip Disk

Q 9 Which of the following is a secondary storage device?

- (A) Microprocessor
- (B) RAM
- (C) Optical disks
- (D) All of these

Assignment– 3: DATA REPRESENTATION

Very Short answer Type Questions

Q.1 Add the binary numbers

(a) 110101 and 101111 (b) 10110 and 1101 Ans: (a) 1100100 (b) 100011

Q.2 Convert 111110111101012 to octal

Q.3 Convert the following binary numbers to decimal -

(a)1010 (b) 111000 (c) 10101111 (d) 10110

Q.4 Convert the following Decimal numbers to binary -

(a) 23 (b) 100(c) 161 (d) 145

Q.5 Convert the following Hexadecimal numbers to Binary -

(a) BE (b) BC9 (c) A07 (d) 7AB4

Q.6 Convert the following binary numbers to Hexadecimal -

(a)101000001 (b) 11100011 (c) 10101111 (d) 101101111

Q.7 Convert the following Octal numbers to Binary -

(a) 456 (b) 26

Convert the following:

(a) 4468 to ()16 (b) 47.58 to ()10 (c) 45.910 to ()2

Short Answer Type Questions

Q.1 What is the use of encoding schemes?

Q.2 Discuss UTF-8 encoding Scheme.

Q.3 How UTF-8 encoding scheme different from UTF-32 encoding scheme?

Q.4 What are ASCII and extended ASCII schemes?

Q.5 What is the utility of ISCII encoding schemes?

Q.6 What is Unicode? What is its significance?

Q.7 What are ASCII and ISCII? Why are these used?

Q.8 Compare UTF-8 and UTF-32 encoding schemes. Which one is most popular scheme?

Q.9 What do you understand by code point and code unit?

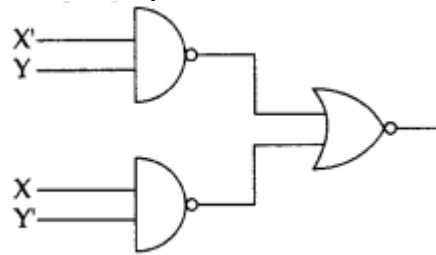
Q.10 What is code space? How is it related to code point?

Assignment 4: Boolean Logic

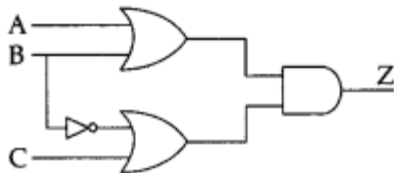
Very Short answer Type Questions

- Q.1 Prove $X + (X+Y) = X$ using truth table. Ans:
 Q.3 What is tautology?
 Q.4 What is Fallacy?
 Q.5 What is a truth table? What is its significance?
 Q.2 Draw logic circuit diagram for the following expression –
 (a) $Y = AB + B'C + C'A$ (b) $R = XYZ + Y(X+Z)$
 Q.7 State and verify Absorption law in Boolean Algebra.
 Q.8 State DeMorgan's law of Boolean Algebra and verify them using truth table.
 Q.13 Why are NAND and NOR Gates more popular?

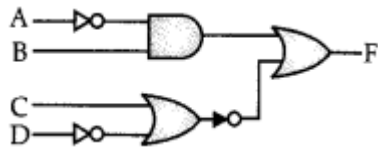
Write the equivalent boolean expression for the following logic circuit.



Q.14 Write the equivalent Boolean expression for the following logic circuit.



Q.15 Obtain the Boolean Expression for the logic circuit shown below.



Q.16 Draw a logic circuit for the Boolean expression

$$A \cdot \bar{B} + (C + \bar{B}) \cdot \bar{A}$$



SelaQui

SelaQui International School

website : www.selaqui.org