



**Hindusthan College of Engineering and Technology
Coimbatore 641 032**

**NAAC
SSR
Cycle 2**

**Criterion II
Teaching-Learning and Evaluation**

FLIPPED CLASSROOMS

Flipped Classrooms cultivate blended learning in which students steer class discussions. The following are the various Flipped Classrooms activities carried out in the institution from the academic year 2017-18 to 2021-22.



Principal

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Class Activity

Academic Year : 2020-21

Name of the Activity: Flipped Classroom

Class: I ECE C

Name of the Faculty: Ms. S. Priya

Subject : Essential of C & C++ Programming

Link: https://youtu.be/zYI_aAogCw4



if statement

- Simplest form of decision control statements frequently used in decision making
- if(test expression)
{
 Statement 1;
 .
 .
 Statement n;
}

```
statement x;
```

```
#include <stdio.h>
int main()
{
    int x=100;
    if(x==10)
        x--;
    printf("x value is %d",x);
    return 0;
}
```

Output:
x value is 99

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The screenshot shows a YouTube video player with the following content:

if - else - if statement

```
#include <stdio.h>
int main()
{
int number;
printf("Enter an Integer");
scanf("%d",&number);
if(number>0)
printf("You entered a positive value!");
else if(number<0)
printf("You entered a negative value!");
else if(number==0)
printf("You entered ZERO!");
}
```

Output:
Enter an integer: -31
You entered a negative value!
Thank you!

Output:
Enter an integer: 12
You entered a positive value!
Thank you!

Output:
Enter an integer: 0
You entered ZERO!
Thank you!

N-R
Faculty-in-charge

S.Shy
HoD



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Class Activity

Academic Year : 2020-21

Name of the Activity: Flipped Classroom

Class: III CSE B

Name of the Faculty: Mr. J. Prakash

Subject : Compiler Design

Link: <https://youtu.be/75a67N1cnEk>



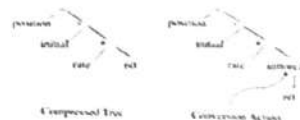
Content

- Definition of Compiler
- Various phases of compiler



Semantic Analysis

- Find More Complicated Semantic Errors and Support Code Generation
- Parse Tree Is Augmented With Semantic Actions



J. Prakash
Faculty-in-charge

r. shy
HoD

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Topic : Introduction to Blockchain Technology

Link: <https://youtu.be/fWwOTXYvrpc>



Blockchain Technology



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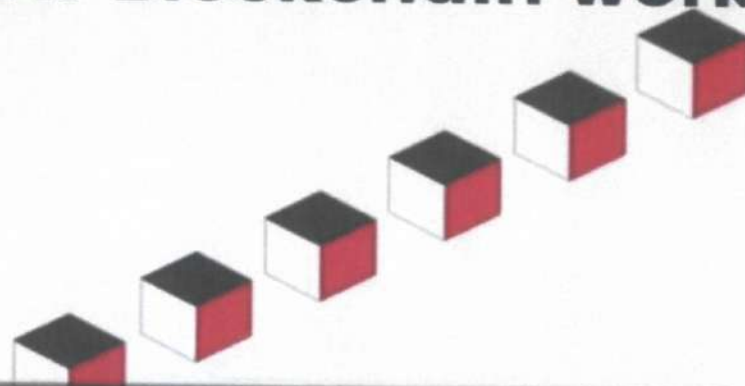
51



Share



How Blockchain works?



that are linked together in a chronological fashion to form a continuous line:

Blockchain Technology



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Topic : Soil Pollution

Link: <https://youtu.be/LT9BHIAO42o>

Soil Pollution



- Soil pollution is defined or can be described as the contamination of soil of a particular region.
- Soil pollution is caused by addition of chemicals, which reduces it's productive capacity.
- In rural areas more fertilizers & pesticides are used in agricultural operations & the chemicals remain in the top layers of soil.



Soil pollution



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Pollutants



➤ Organic waste

Organic waste enter the soil pores & decompose pathological bacteria spread infection.

➤ Compounds

Compounds containing arsenic, mercury, chromium, nickel, lead, Zinc, & iron are toxic life. Fluorides also affect the plant development



Soil pollution



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Topic : Divergence Theorem

Link: <https://youtu.be/0FWqXpvYiLA>

Divergence of a vector Field

- the dot product of del operator ∇ and the vector field $A(x,y,z)$ gives the divergence of a vector field

$$\text{div } \vec{A} = \nabla \cdot \vec{A}$$

$$\nabla = \frac{\partial}{\partial x} \vec{a}_x + \frac{\partial}{\partial y} \vec{a}_y + \frac{\partial}{\partial z} \vec{a}_z$$

Handwritten note: a_x, a_y, a_z unit

$$\nabla \cdot \vec{A} = \left(\frac{\partial}{\partial x} a_x + \frac{\partial}{\partial y} a_y + \frac{\partial}{\partial z} a_z \right) \cdot \vec{A}$$

Divergence Theorem

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Gauss Divergence Theorem

- Proof $\nabla \cdot \vec{A} = \frac{\partial A_x}{\partial x} + \frac{\partial A_y}{\partial y} + \frac{\partial A_z}{\partial z}$

$$\iiint_V \nabla \cdot \vec{A} \, dv = \iiint_V \left(\frac{\partial A_x}{\partial x} + \frac{\partial A_y}{\partial y} + \frac{\partial A_z}{\partial z} \right) \, dv$$

Divergence Theorem

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Topic: Ordinary Differential Equations

Link: <https://youtu.be/U0Qn DRNUkg>

Order of Differential Equation

The order of the differential equation is the order of the highest order derivative present in the equation. Here some examples for different orders of the differential equation are given.

- $dy/dx = 3x + 2$, The order of the equation is 1
- $(d^2y/dx^2) + 2(dy/dx) + y = 0$. The order is 2
- $(dy/dt) + y = kt$. The order is 1

Ordinary Differential Equations

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Solve DE $\frac{dy}{dx} + y \cot x = 2 \cos x$

Solution

Given $\frac{dy}{dx} + y \cot x = 2 \cos x$ which is linear

$P = \cot x$ $Q = 2 \cos x$

$$IF = e^{\int \cot x dx} = e^{\log \sin x} = \sin x$$

Thus required solution is

$$Y \sin x = \int 2 \cos x \sin x dx + c$$

$$= \int \sin 2x dx + c$$

$$\Rightarrow y \sin x = -\frac{\cos 2x}{2} + c$$

Ordinary Differential Equations

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Topic: Features of Java

Link: <https://youtu.be/NOm1xe7jfcU>



#Java #Features

Features of Java



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#Java #Features

Features of Java



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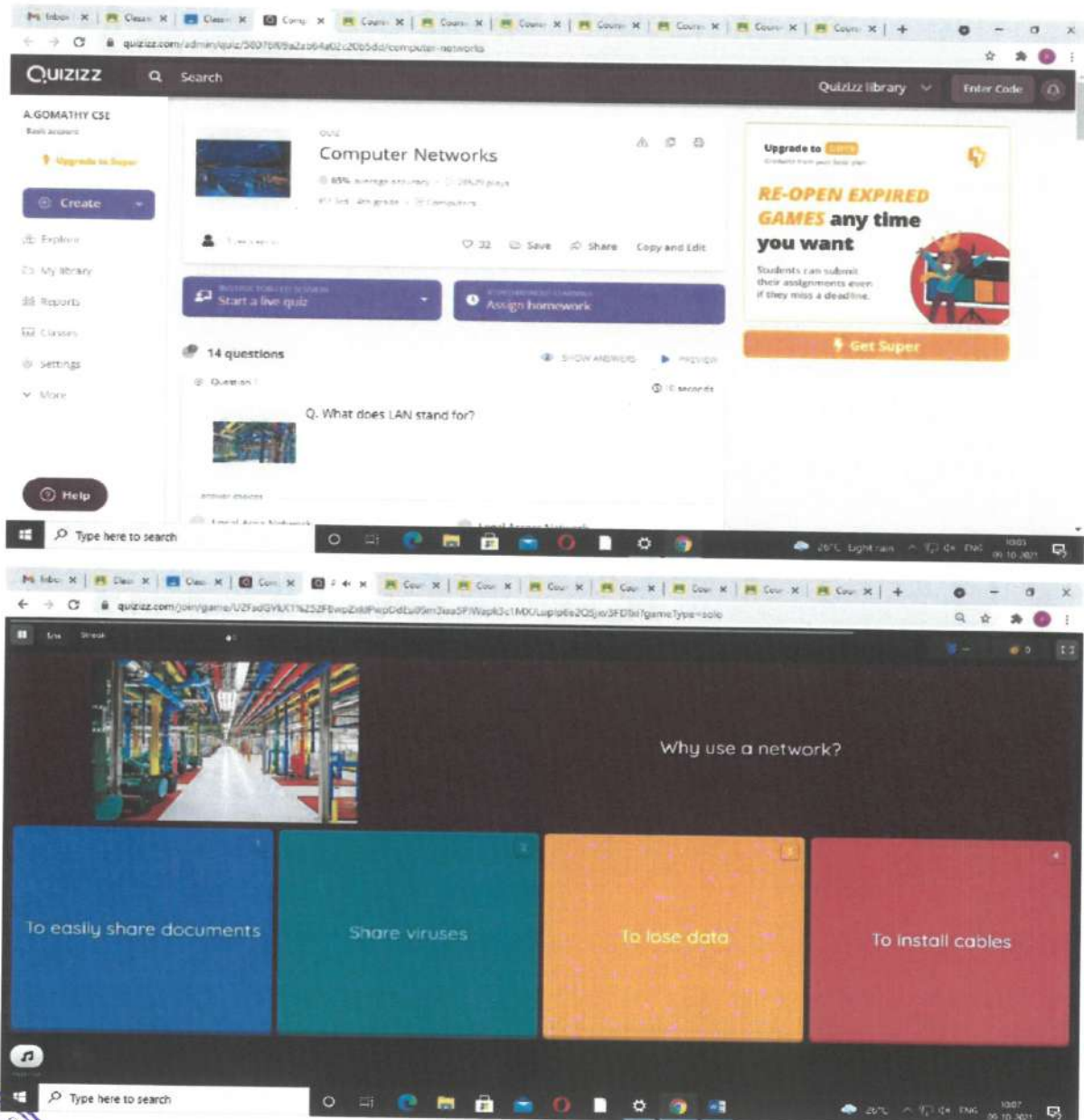
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Accredited with 'A' Grade by NAAC | Accredited by NBA (ECE, MECH, EEE, IT & CSE)

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Blended Learning

Quizizz



The screenshot displays the Quizizz web interface. At the top, there's a navigation bar with 'QUIZZ' and a search bar. Below this, the user is logged in as 'AGOMATHY CSE'. The main content area shows a quiz titled 'Computer Networks' with 14 questions. The current question is 'Q. What does LAN stand for?'. The options are: 'To easily share documents', 'Share viruses', 'To lose data', and 'To install cables'. The interface also includes a sidebar with navigation options like 'Create', 'Explore', 'My library', 'Reports', 'Classes', 'Settings', and 'More'. A 'Help' button is visible at the bottom left of the sidebar. The bottom of the screenshot shows the Windows taskbar with the search bar and system tray.



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Google Forms

FOSS-I QUIZ -I

agomathy.cse@hindusthan.net (not shared) Switch account

* Required

Register Number *

Your answer:

Sample Table - Worker

WORKER_ID	FIRST_NAME	LAST_NAME	SALARY	JOB_ID	START_DATE	DEPARTMENT
901	Monika	Arora	100000	2014-02-29 09:00:00	HR	
902	Niharika	Verma	80000	2014-06-11 09:00:00	Admin	
903	Vishal	Singhal	300000	2014-02-29 09:00:00	HR	
904	Ashish	Singh	500000	2014-02-29 09:00:00	Admin	
905	Vivek	Bhati	500000	2014-06-11 09:00:00	Admin	
907	Satish	Kumar	75000	2014-01-29 09:00:00	Account	
908	Ganika	Chaudhan	90000	2014-04-11 09:00:00	Admin	

For the table shown above write a query to create a table and insert query

Your answer:

Write an SQL query to fetch "FIRST_NAME" from Worker table shown above using the alias name as <WORKER_NAME>

Your answer:

Write an SQL query to fetch "FIRST_NAME" from Worker table in upper case

Your answer:

Display the Worker_id, FIRST_NAME from worker in descending order by salary.



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Display the Worker_id, FIRST_NAME from worker in descending order by salary .

Your answer:

Display the details of worker getting highest salary

Your answer:

Write the queries for performing delete the row with worker id = 005,truncate and drop using the above table

Your answer:

Submit Clear form

Never submit passwords through Google Forms.

This form was created inside of Hindusthan Educational Institutions. [Easoct@hust](#)

Google Forms

FOSS-I QUIZ -1

Questions Responses Settings

42 responses

Accepting responses

Summary Question Individual

Register Number
17 responses

Register Number	Count	Percentage
18104002	1	5.9%
18104009	1	5.9%
18104019	1	5.9%
18104023	1	5.9%
18104028	1	5.9%
18104037	1	5.9%
18104051	2	11.8%
18104053	1	5.9%



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Department of Information Technology

Class Activity Details

Academic Year: 2020-2021

Date: 15/09/20, 25/11/20, 30/1/21, 28/2/21

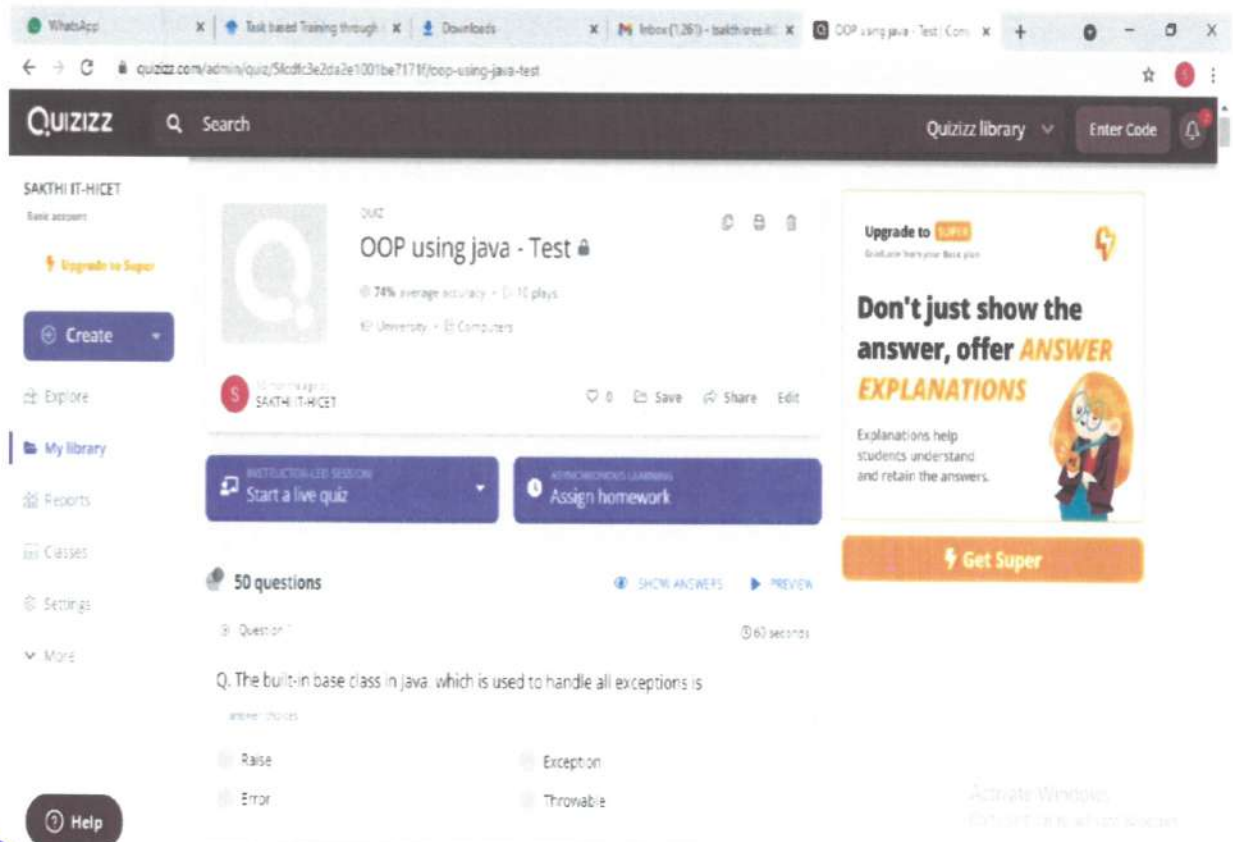
ICT Tools Name: Quizizz, Poll Everywhere

Classes: III EIE, II & IV IT

Faculty Name: Ms. SakthiSree T

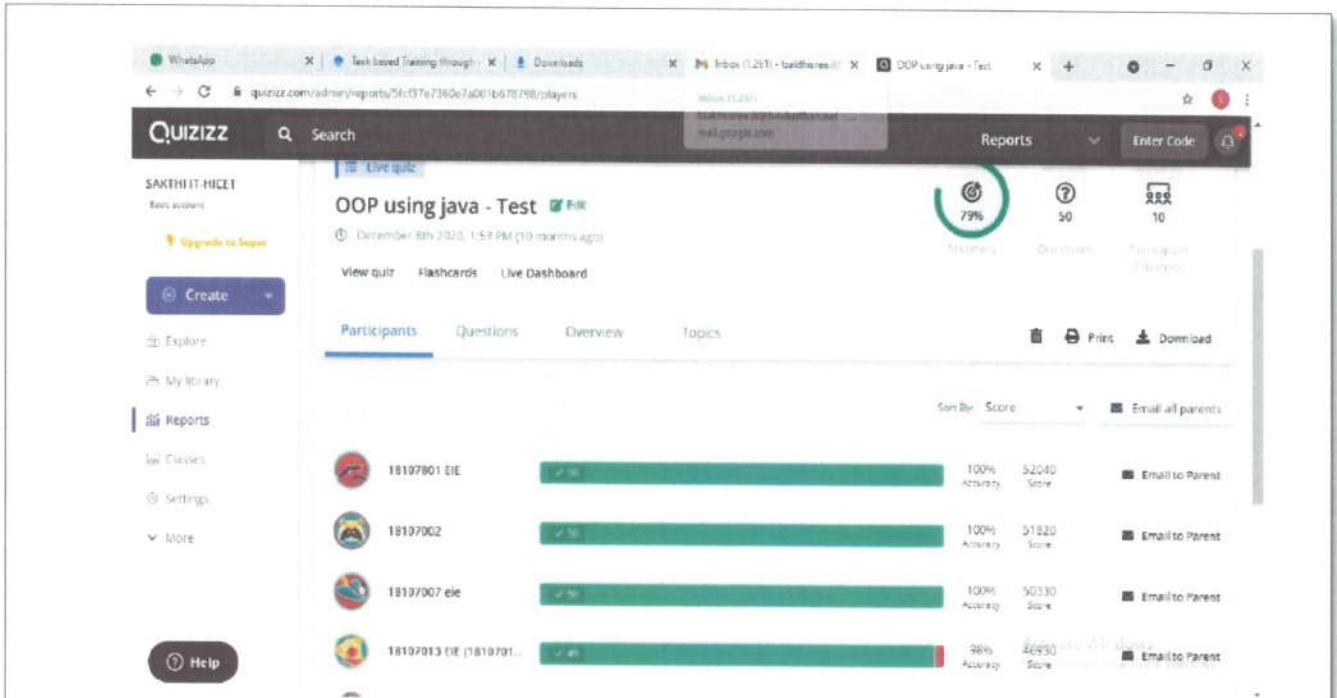
Subjects Name: Object Oriented Programming, Social Network Analysis, Essence of Indian Traditional Knowledge, Software Testing and Quality Assurance

Object Oriented Programming (15/09/20):

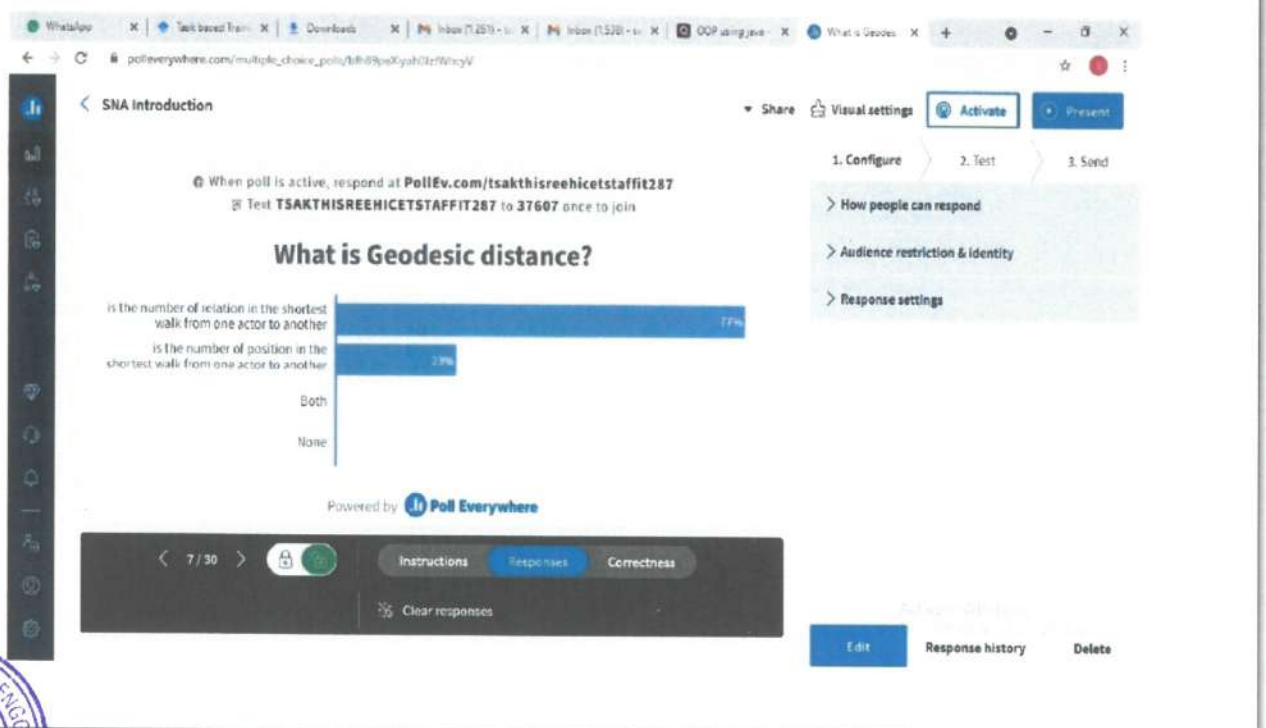


The screenshot shows a web browser window displaying the Quizizz interface. The browser tabs include WhatsApp, Task based Training through..., Downloads, Inbox (1,26) - sakthrees..., and OOP using java - Test. The URL is quizizz.com/admin/quiz/51c0fc3e2da2e1001be7171f/oop-using-java-test. The Quizizz logo and search bar are at the top. The user profile for SAKTHI IT-HICET is visible on the left. The main content area shows a quiz titled "OOP using java - Test" with a 74% average accuracy and 11 plays. It is categorized under "University" and "Computers". There are buttons for "Start a live quiz" and "Assign homework". The quiz contains 50 questions. The current question is: "Q. The built-in base class in java, which is used to handle all exceptions is". The options are: Raise, Exception, Error, and Throwable. A "Get Super" button is visible on the right side of the interface.

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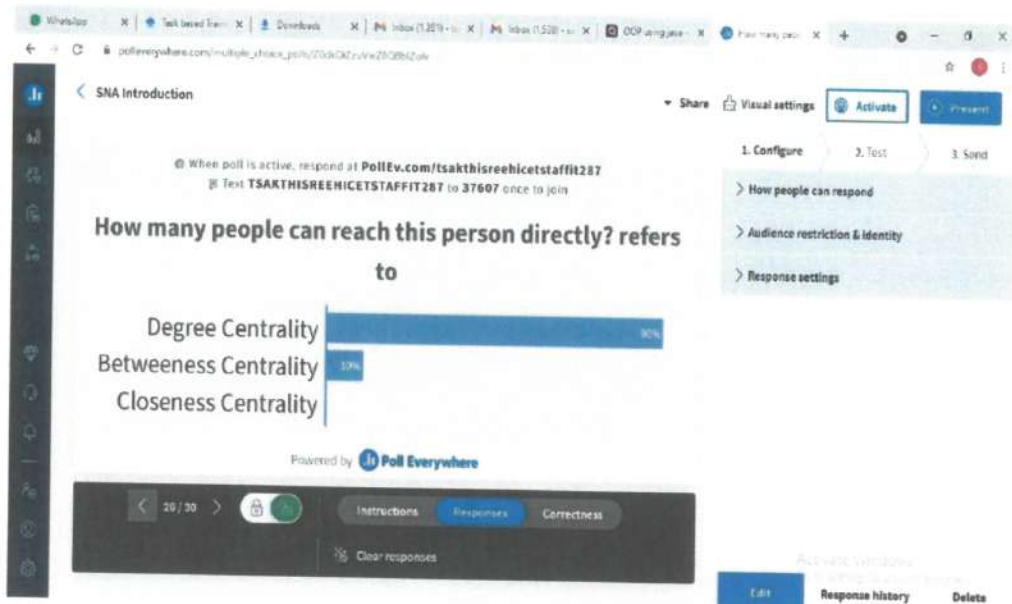


Social Network Analysis (25/11/20):



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Essence of Indian Traditional Knowledge (30/1/21):



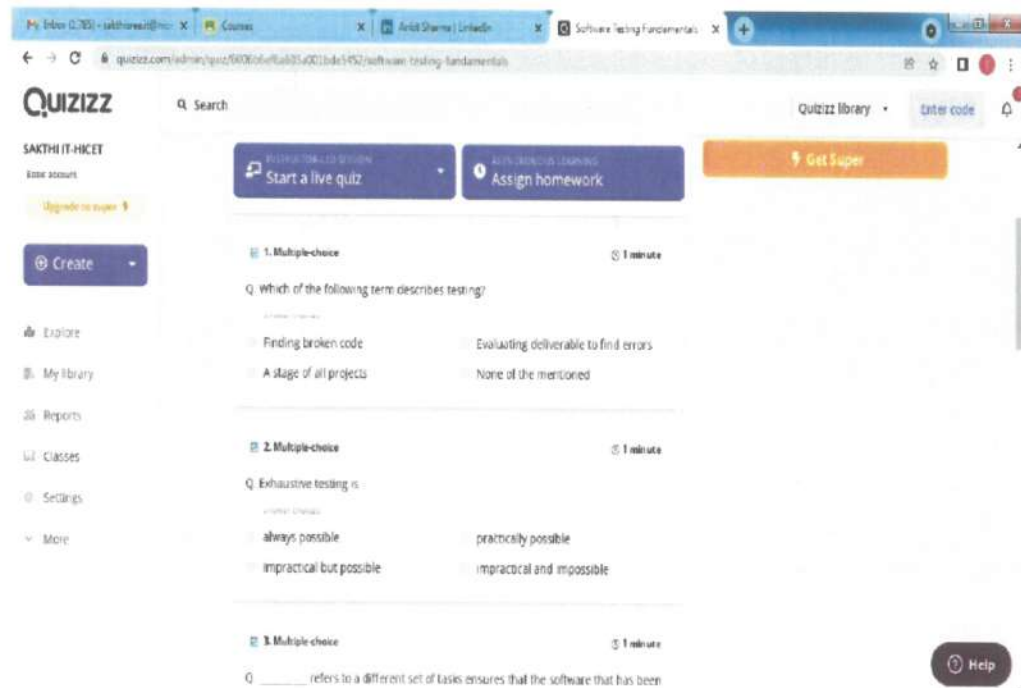
How do you say Indigenous knowledge cannot be displaced out of its local context into another one and used for national and international network

1 It is an autochthonous theoretical experience and only valid as a world in its place of origin	2 It is an autochthonous empirical experience and only valid as a world in its place of origin	3 It is an autochthonous theoretical experience and only valid as a world in its place of origin	4 It is an autochthonous empirical experience and only valid as a world in its place of origin
--	--	--	--

1/25 Streak

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Software Testing and Quality Assurance (28/2/21):



The screenshot shows a Quizizz quiz titled "Software Testing and Quality Assurance" with a 1-minute timer. The quiz contains three multiple-choice questions:

- 1. Multiple-choice (1 minute)
Q. Which of the following term describes testing?
Options: Finding broken code, Evaluating deliverable to find errors, A stage of all projects, None of the mentioned.
- 2. Multiple-choice (1 minute)
Q. Exhaustive testing is
Options: always possible, practically possible, impractical but possible, impractical and impossible.
- 3. Multiple-choice (1 minute)
Q. _____ refers to a different set of tasks ensures that the software that has been

T. S. S. S.

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Academic Year: 2020-2021

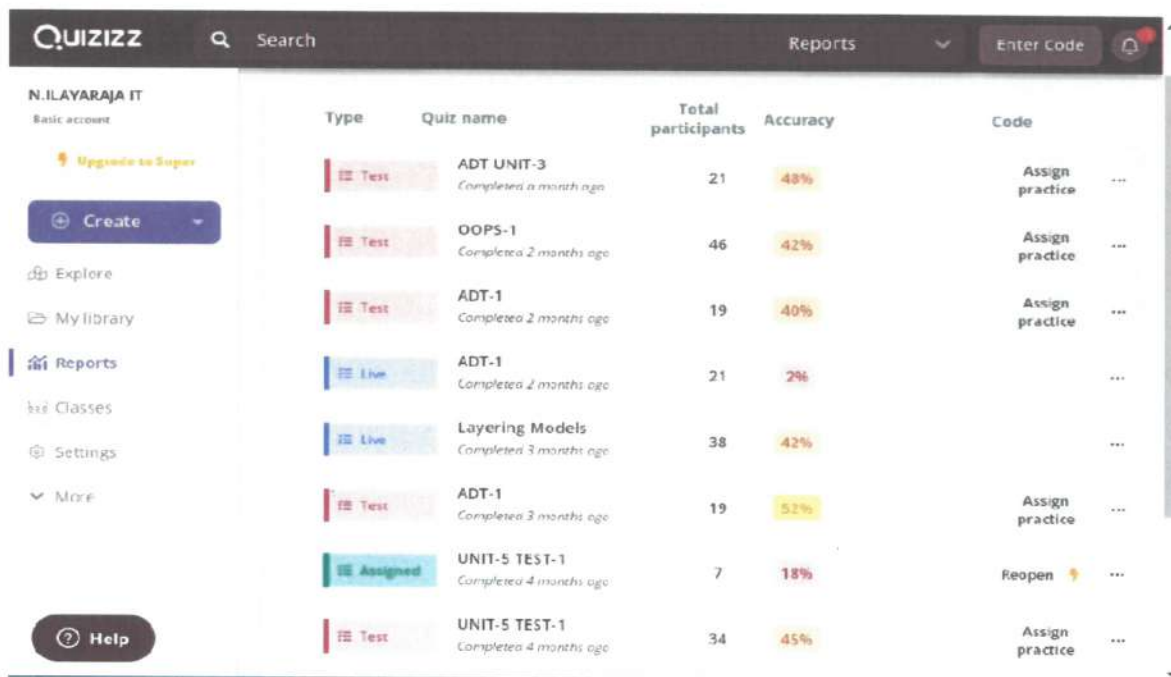
Date: 15/09/20, 25/11/20

ICT Tool Name: Quizizz

Classes: II, III IT

Faculty Name: Mr. Ilayaraja N

Subjects Name: Object Oriented Programming, Advanced Database Technology



Type	Quiz name	Total participants	Accuracy	Code
Test	ADT UNIT-3 <small>Completed a month ago</small>	21	48%	Assign practice
Test	OOPS-1 <small>Completed 2 months ago</small>	46	42%	Assign practice
Test	ADT-1 <small>Completed 2 months ago</small>	19	40%	Assign practice
Live	ADT-1 <small>Completed 4 months ago</small>	21	2%	
Live	Layering Models <small>Completed 3 months ago</small>	38	42%	
Test	ADT-1 <small>Completed 3 months ago</small>	19	52%	Assign practice
Assigned	UNIT-5 TEST-1 <small>Completed 4 months ago</small>	7	18%	Reopen
Test	UNIT-5 TEST-1 <small>Completed 4 months ago</small>	34	45%	Assign practice



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Class Activity Details

Academic Year:2020-2021

Date:10/02/21,19/2/20

ICT Tool Name: Quizizz

Classes: II, III IT

Faculty Name: Mr. Premkumar C D

Subjects Name: Microprocessor & Microcontroller, Artificial Intelligence

QUIZZZ Search Reports Enter Code

C.D. IT All reports Filter by class Filter by date

Log in to Super

Create

Explore

My library

Reports

Classes

Settings

More

Type	Quiz name	Total participants	Accuracy	Code
Assigned	191T5203 MICROCONTROLLER AND E... Completed 7 months ago	1	40%	Reopen
Assigned	191T5203 MICROCONTROLLER AND E... Completed 7 months ago	34	61%	Reopen
Assigned	ARTIFICIAL INTELLIGENCE Completed 9 months ago	1	90%	Reopen
Challenge	ARTIFICIAL INTELLIGENCE Completed 9 months ago	2	40%	

Help

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Class Activity Details

Academic Year:2020-2021

Date:02/11/2020

ICT Tool Name: Book Widgets

Class: I IT

Faculty Name: Mr. Antony Vijay J

Subject Name: Python Programming and Practices

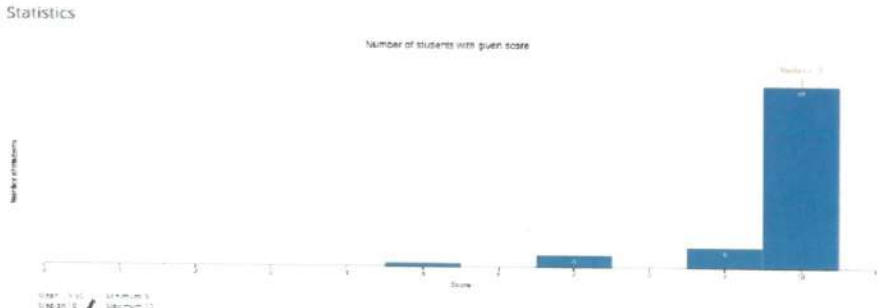
Python Crossword 1st year it python class - b

Questions

Python Crossword

Answers (54)

Name	Date	Total Score
HINDUSTHAN P. 2019088	21/10/2020 10:40:24	10/10
HINDUSTHAN P. 2019089	21/10/2020 10:40:34	10/10
HINDUSTHAN P. 2019091	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019092	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019093	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019094	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019095	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019096	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019097	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019098	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019099	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019100	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019101	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019102	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019103	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019104	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019105	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019106	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019107	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019108	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019109	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019110	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019111	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019112	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019113	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019114	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019115	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019116	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019117	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019118	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019119	21/10/2020 11:02:40	10/10
HINDUSTHAN P. 2019120	21/10/2020 11:02:40	10/10



Antony Vijay J
Faculty In-charge

Antony Vijay J
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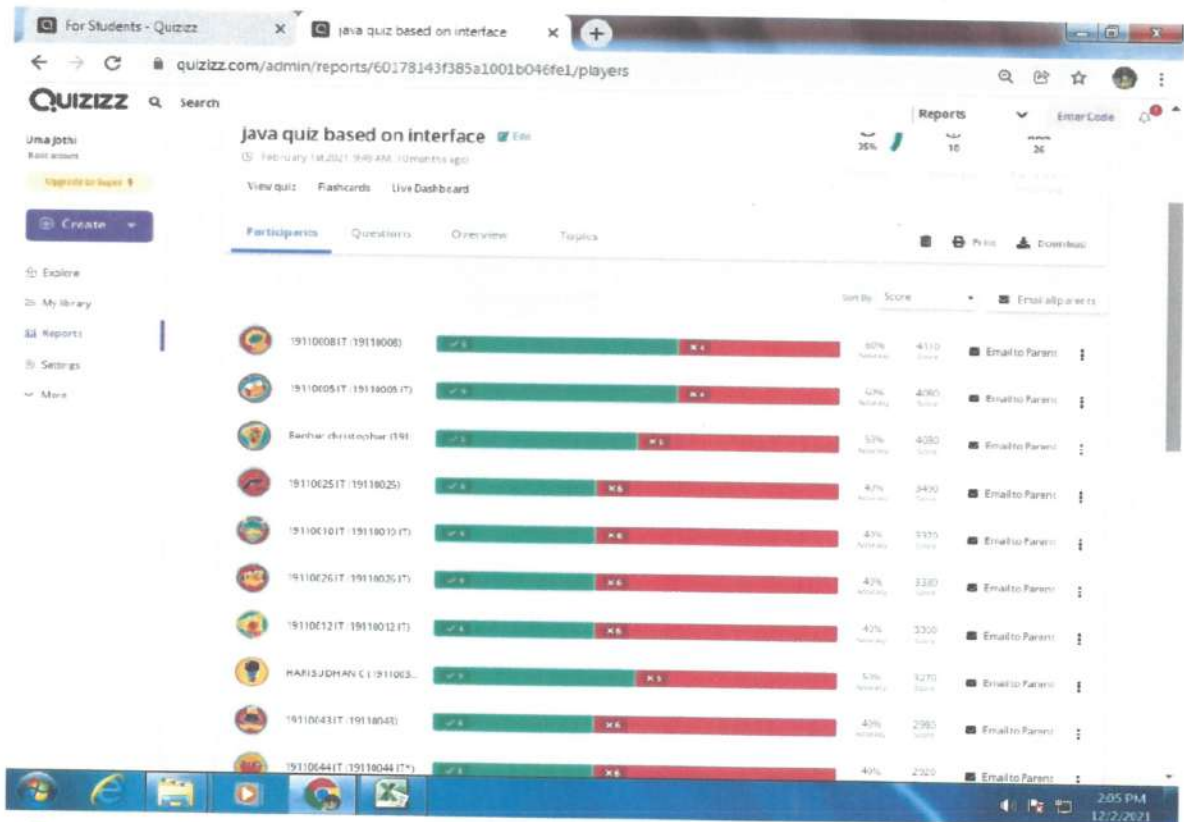
Date:01/2/2021

ICT Tool Name: Quizzz

Class: II IT

Faculty Name: Ms Uma J

Subject Name: JAVA Programming



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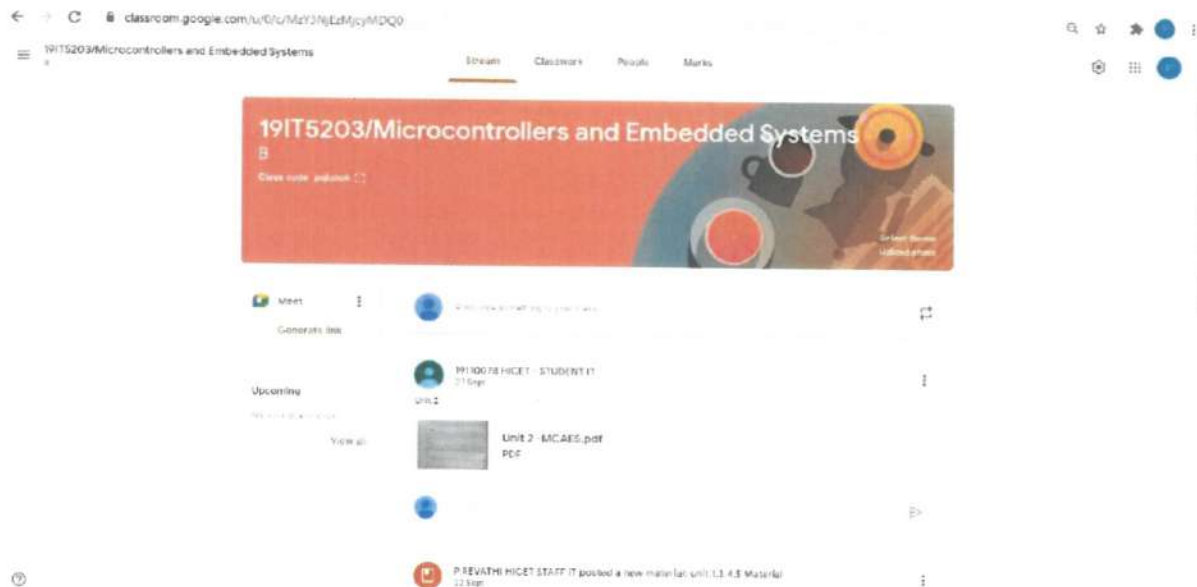
Date: 10/02/21

ICT Tool Name: Google classroom

Class: II IT

Faculty Name: Ms Revathi P

Subject Name: MicroController and Embedded systems



PRP

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Academic Year:2020-2021

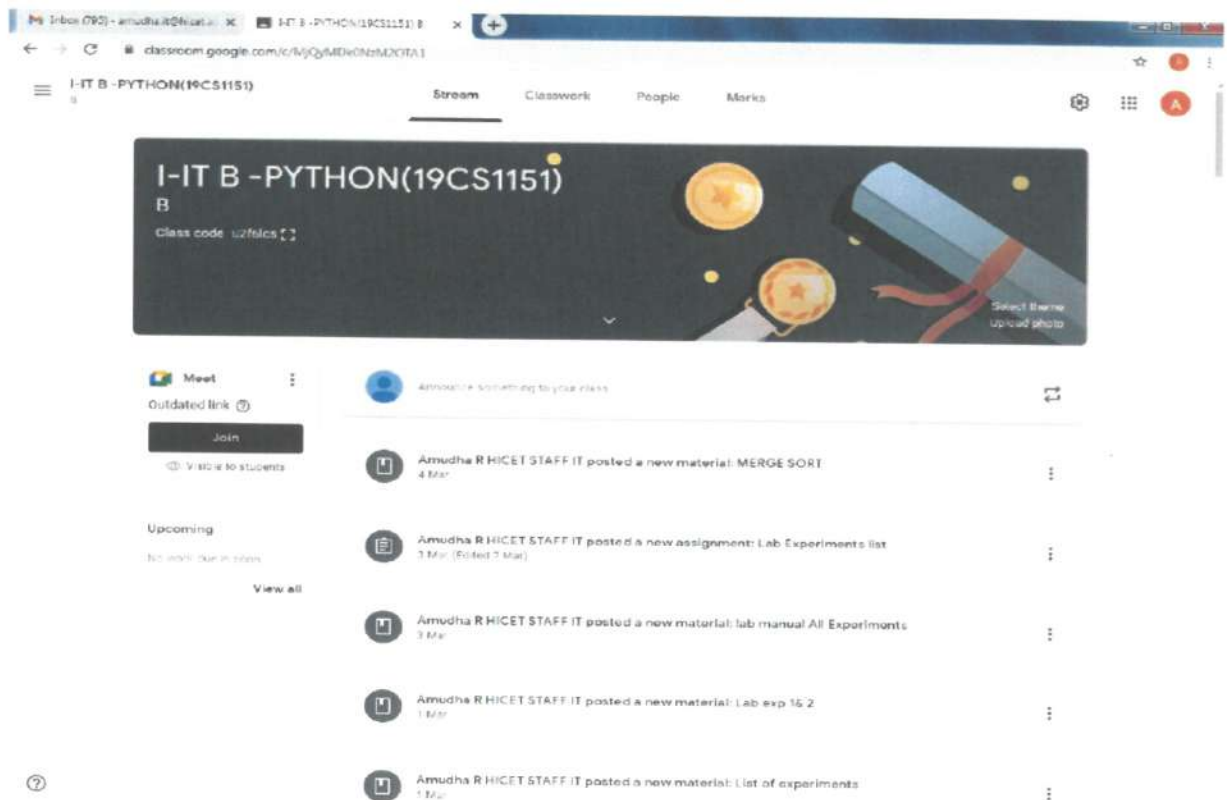
Date: 8/10/20

ICT Tool Name: Google classroom

Class: I IT

Faculty Name: Ms Amutha R

Subject Name: Python Programming and Practices



R. Amutha

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[Signature]

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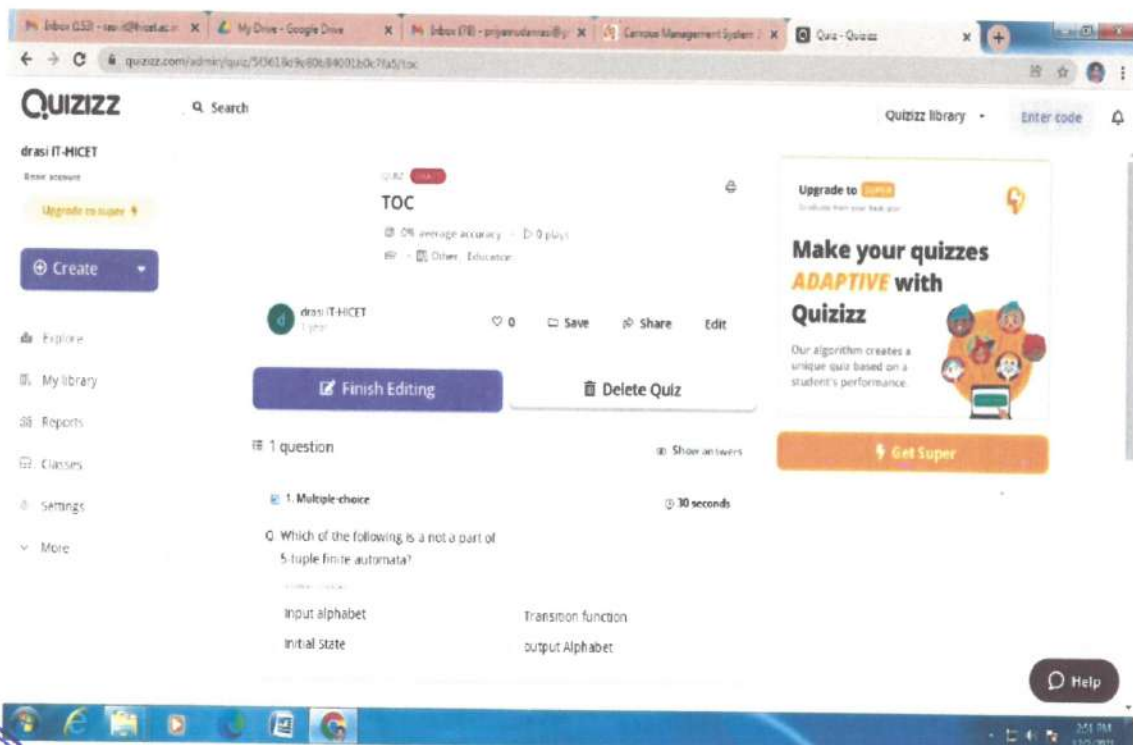
Date: 6/10/20

ICT Tool Name: Quizzz

Class: III IT

Faculty Name: Dr Rasi D

Subject Name: Theory of Computation



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The screenshot shows a web browser window with the URL quizizz.com/quiz/5f3618d9e82b9480150c71a54ed8. The page title is "Quiz Editor" and it indicates "All changes saved". The main content area shows a question titled "Question 1" with the text: "Which of the following is not a part of 5-tuple finite automata?". Below the question are four radio button options: "Input alphabets", "Initial State", "Transition function", and "output Alphabet". The "Transition function" option is selected. The question is set for a duration of "30 Seconds" and has a "Tag topics" field. On the right side, there is a "TOC" (Table of Contents) section with a "Quiz quality score" of "2.5/5.0". At the bottom of the interface, there is a "Help" button and a Windows taskbar.

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