

# DEPARTMENT OF BIOTECHNOLOGY

## STUDENT ACTIVITIES

### Online Picture quiz on Kahoot

Date : 23.09,2020

Total students attended : 44

Activity

Pictures related to DNA structure and function were given for identification in a customized quiz.

The screenshot shows a web browser window displaying a Kahoot! quiz page. The browser's address bar shows the URL: [create.kahoot.it/details/6ce7b63b-e505-4ce5-880d-96e32af6bc0c](https://create.kahoot.it/details/6ce7b63b-e505-4ce5-880d-96e32af6bc0c). The page features a navigation bar with options like Home, Discover, Library, Reports, and Groups. The main content area is titled "DNA - THE WONDER MOLECULE" and includes a "Play" button, an "Edit" button, and a "Challenge finished" notification indicating that 44 students participated. The quiz questions are listed on the right side of the page:

- 1 - Quiz: Identify this Electron micrographic picture? (20 sec)
- 2 - Quiz: No. of bases per turn in B-DNA (20 sec)
- 3 - Quiz: Major DNA Polymerase activity is done by DNA Pol III in Prokaryotes, who ... (20 sec)
- 4 - Quiz: What is the name of the technicque used to develop Historical Image in DN... (20 sec)

The page also includes a "Show answers" button and a "Challenge in progress" indicator. A watermark for "Activate Windows" is visible in the bottom right corner of the browser window.

Report options

Challenge **Finished**

Start date: Sep 23 2020, 7:42 am

End date: Sep 23 2020, 4:00 pm

Hosted by GEETHANJALIKARLI

Summary **Players (44)** Questions (15)

All (44) Need help (17) Didn't finish (23) Search

Nickname	Rank	Correct answers	Unanswered	Final score
K.raj	1	100%	—	14 378
Yashwanth	2	93%	—	12 782
K.Kartheek	3	80%	—	10 869
Kommirimanjula	4	80%	1	10 829

## Essay Writing Competition

**“Molecular Bases of Vaccines COVAXIN and Covishield” on 15.04.2021 for I YR, II YR and III Yr  
B.Sc Biotechnology**

**Total students participated : 18**

**Best Essay Prize I : Shubangini Thakur, III B.Sc Bt.B.C**

**Best Essay Prize II : K.Manjula, II B.Sc Bt.Z.C**

GOVT. DEGREE COLLEGE, KUKATPALLY, (Medchal Dist.)  
TELANGANA, INDIA



Department of Biotechnology



Certificate of Achievement

This is to certify that Ms.Shubangini Thakur, III B.Sc Bt.B.C had participated and received the **Best Essay Prize** in the essay writing competition on the topic “**Molecular Bases of Vaccines COVAXIN and Covishield**” organized by Department of Biotechnology on 15 /04/2021

Mrs.K.Geethanjali  
Asst. Professor in Biotechnology

Dr. N. Aivelu Mangamma  
Principal

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GOVT. DEGREE COLLEGE, KUKATPALLY, (Medchal Dist.)  
TELANGANA, INDIA



**Department of Biotechnology**



Certificate of Achievement

This is to certify that Ms.K.Manjula, II B.Sc Bt.Z.C had participated and received the **Best Essay Prize** in the essay writing competition on the topic “**Molecular Bases of Vaccines COVAXIN and Covishield**” organized by Department of Biotechnology on 15 /04/2021

**Mrs.K.Geethanjali**  
Asst. Professor in Biotechnology

**Dr. N. Alivelu Mangamma**  
Principal

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2020-21

SEM III

Paper : MOLECULAR BIOLOGY

Assignment -1

Name of the student	Class	Topic
ALIKANTI ANITHA	BT.Z.C	Differences in Gene structure of Eukaryotes and prokaryotes
B V S R VARUN	BT.Z.C	Transcription in prokaryotes
CHEPURI SWETHA	BT.Z.C	Salient features of genetic code
DHARA SINDHU SRINIVAS	BT.Z.C	Post transcriptional modification in eukaryotes
GAIKWAD HEPHZIBAH	BT.Z.C	Different types of gene regulation. Lac operon
GANGADHARI MANJULA	BT.Z.C	Restriction enzymes classification and functions
GANGADHARI PRANATHI	BT.Z.C	Gene transfer methods
G SHIREESHA	BT.Z.C	Differences in Gene structure of Eukaryotes and prokaryotes
K MANJULA	BT.Z.C	Transcription in prokaryotes
K PALLAVI	BT.Z.C	Salient features of genetic code
M RAJASHEKAR	BT.Z.C	Post transcriptional modification in eukaryotes
ALAGONDA SAI KRISHNA	BT.B.C	Different types of gene regulation. Lac operon
AMEENA FATIMA	BT.B.C	Restriction enzymes classification and functions
ARSHIYA MUBEEN	BT.B.C	Gene transfer methods
CHIPPALA SWATHI	BT.B.C	Differences in Gene structure of Eukaryotes and prokaryotes
DHADIGA MOUNIKA	BT.B.C	Transcription in prokaryotes
DONTHIREDDY SAI CHARITHA	BT.B.C	Salient features of genetic code
GANTE SAIVARMA	BT.B.C	Post transcriptional modification in eukaryotes
KAKARAPARTI KARTHEEK	BT.B.C	Different types of gene regulation. Lac operon
KANCHARI VIMALA	BT.B.C	Restriction enzymes classification and functions
KOTTA APARNA	BT.B.C	Gene transfer methods
MADIRE SWARNA MAHESWARI	BT.B.C	Differences in Gene structure of Eukaryotes and prokaryotes
METHRI MALLESH	BT.B.C	Structure of prokaryotic and eukaryotic gene (promoter, initiator & terminator regions) Structure and functions of RNA polymerase
NALI SINDHU PRIYA	BT.B.C	Transcription mechanism- initiation, elongation & proof reading, termination (rho independent & rho dependent); basic concept of reverse transcription Post transcriptional modification in eukaryotes
PANUGOTH GANESH	BT.B.C	Genetic code- properties, deciphering of genetic code,

		wobble hypothesis, aminoacylation
P BALAKISHTAMMA	BT.B.C	Translation mechanism- initiation, elongation and termination
PEMMASANI V L N SURYA CHANDRA	BT.B.C	Gene regulation: Negative & Positive control Operon concept, Lac operon, CAP-cAMP system, Arabinose operon
SAMPATH RADHIKA	BT.B.C	Enzymes useful in molecular cloning: Restriction endonuclease, DNA ligases, polynucleotide kinase, klenow enzyme, DNA Polymerase- I, reverse transcriptase, alkaline phosphatase, terminal nucleotidyltransferase
SHANIGARAPU HARISH	BT.B.C	Cloning Vectors: PBR 322, Bacteriophage, Cosmid, Phagemid, Shuttle vector
THATI SPANDANAREKHA	BT.B.C	Polymerase Chain Reaction and its applications

### Assignment 2

Name of the student	Class	Topic
ALIKANTI ANITHA	BT.Z.C	Translation mechanism- initiation, elongation and termination
B V S R VARUN	BT.Z.C	Gene regulation: Negative & Positive control Operon concept, Lac operon, CAP-cAMP system, Arabinose operon
CHEPURI SWETHA	BT.Z.C	Enzymes useful in molecular cloning: Restriction endonuclease, DNA ligases, polynucleotide kinase, klenow enzyme, DNA Polymerase- I, reverse transcriptase, alkaline phosphatase, terminal nucleotidyltransferase
DHARA SINDHU SRINIVAS	BT.Z.C	Translation mechanism- initiation, elongation and termination
GAIKWAD HEPHZIBAH	BT.Z.C	Transcription in prokaryotes
GANGADHARI MANJULA	BT.Z.C	Salient features of genetic code
GANGADHARI PRANATHI	BT.Z.C	Post transcriptional modification in eukaryotes
G SHIREESHA	BT.Z.C	Different types of gene regulation. Lac operon
K MANJULA	BT.Z.C	Restriction enzymes classification and functions
K PALLAVI	BT.Z.C	Gene transfer methods
M RAJASHEKAR	BT.Z.C	Differences in Gene structure of Eukaryotes and prokaryotes
ALAGONDA SAI KRISHNA	BT.B.C	Structure of prokaryotic and eukaryotic gene (promoter, initiator & terminator regions) Structure and functions of RNA polymerase
AMEENA FATIMA	BT.B.C	Restriction enzymes classification and functions
ARSHIYA MUBEEN	BT.B.C	Gene transfer methods
CHIPPALA SWATHI	BT.B.C	Differences in Gene structure of Eukaryotes and

		prokaryotes
DHADIGA MOUNIKA	BT.B.C	Transcription in prokaryotes
DONTHIREDDY SAI CHARITHA	BT.B.C	Salient features of genetic code
GANTE SAIVARMA	BT.B.C	Post transcriptional modification in eukaryotes
KAKARAPARTI KARTHEEK	BT.B.C	Different types of gene regulation. Lac operon
KANCHARI VIMALA	BT.B.C	Restriction enzymes classification and functions
KOTTA APARNA	BT.B.C	Gene transfer methods
MADIRE SWARNA MAHESWARI	BT.B.C	Differences in Gene structure of Eukaryotes and prokaryotes
METHRI MALLESH	BT.B.C	Structure of prokaryotic and eukaryotic gene (promoter, initiator & terminator regions) Structure and functions of RNA polymerase
NALI SINDHU PRIYA	BT.B.C	Transcription mechanism- initiation, elongation & proof reading, termination (rho independent & rho dependent); basic concept of reverse transcription Post transcriptional modification in eukaryotes
PANUGOTH GANESH	BT.B.C	Genetic code- properties, deciphering of genetic code, wobble hypothesis, aminoacylation
P BALAKISHTAMMA	BT.B.C	Different types of gene regulation. Lac operon
PEMMASANI V L N SURYA CHANDRA	BT.B.C	Restriction enzymes classification and functions
SAMPATH RADHIKA	BT.B.C	Gene transfer methods
SHANIGARAPU HARISH	BT.B.C	Differences in Gene structure of Eukaryotes and prokaryotes
THATI SPANDANAREKHA	BT.B.C	Transcription in prokaryotes

## SEM V

Paper : Recombinant DNA technology

### Assignment 1

Name of the student	class	Topic
BIJJA PAVANI	BT.Z.C	Enzymes useful in molecular cloning: Restriction endonuclease, DNA ligases, polynucleotide kinase, klenow enzyme, DNA Polymerase- I, reverse transcriptase, alkaline phosphatase, terminal nucleotidyltransferase
BODDU YASHWANTH	BT.Z.C	Cloning Vectors: PBR 322, Bacteriophage, Cosmid, Phagemid, Shuttle vector
CHELLURI SRUJANA	BT.Z.C	Polymerase Chain Reaction and its applications
DOVUR VEERESH	BT.Z.C	Structure of prokaryotic and eukaryotic gene (promoter, initiator & terminator regions) Structure and functions of RNA polymerase
GUDIPATI SONY	BT.Z.C	Enzymes useful in molecular cloning: Restriction

		endonuclease, DNA ligases, polynucleotide kinase, klenow enzyme, DNA Polymerase- I, reverse transcriptase, alkaline phosphatase, terminal nucleotidyltransferase
GUGLAVATH VENKATESH	BT.Z.C	Cloning Vectors: PBR 322, Bacteriophage, Cosmid, Phagemid, Shuttle vector
KANDUNURI BHARGAVI	BT.Z.C	Structure of prokaryotic and eukaryotic gene (promoter, initiator & terminator regions) Structure and functions of RNA polymerase
KANIMELLA SANDHYA	BT.Z.C	Transcription mechanism- initiation, elongation & proof reading, termination (rho independent & rho dependent); basic concept of reverse transcription Post transcriptional modification in eukaryotes
M NITHYA KRUTHI	BT.Z.C	Genetic code- properties, deciphering of genetic code, wobble hypothesis, aminoacylation
MUNIGALA SHANKAR	BT.Z.C	Translation mechanism- initiation, elongation and termination
NAKKA ANUSHA	BT.Z.C	Gene regulation: Negative & Positive control Operon concept, Lac operon, CAP-cAMP system, Arabinose operon
PALADI SRAVAN KUMAR	BT.Z.C	Enzymes useful in molecular cloning: Restriction endonuclease, DNA ligases, polynucleotide kinase, klenow enzyme, DNA Polymerase- I, reverse transcriptase, alkaline phosphatase, terminal nucleotidyltransferase
PARAKALA MADHAN GOUD	BT.Z.C	Cloning Vectors: PBR 322, Bacteriophage, Cosmid, Phagemid, Shuttle vector
PERKA PRAVEEN	BT.Z.C	Polymerase Chain Reaction and its applications
PUTTA SAI KRISHNA	BT.Z.C	Structure of prokaryotic and eukaryotic gene (promoter, initiator & terminator regions) Structure and functions of RNA polymerase
RATHOD SHIREESHA	BT.Z.C	Transcription mechanism- initiation, elongation & proof reading, termination (rho independent & rho dependent); basic concept of reverse transcription Post transcriptional modification in eukaryotes
SABBITHI AISHWARYA	BT.Z.C	Genetic code- properties, deciphering of genetic code, wobble hypothesis, aminoacylation
TALLAPRODDATUR DHANUSH	BT.Z.C	Translation mechanism- initiation, elongation and termination
TOPARAM PRANEETH	BT.Z.C	Gene regulation: Negative & Positive control Operon concept, Lac operon, CAP-cAMP system, Arabinose operon
Vaishnavi	BT.Z.C	Enzymes useful in molecular cloning: Restriction endonuclease, DNA ligases, polynucleotide kinase, klenow enzyme, DNA Polymerase- I, reverse transcriptase, alkaline phosphatase, terminal nucleotidyltransferase



V GOVARDHAN	BT.Z.C	Cloning Vectors: PBR 322, Bacteriophage, Cosmid, Phagemid, Shuttle vector
A THEJA	BT.B.C	Polymerase Chain Reaction and its applications
GANTA SRUJAN	BT.B.C	Blotting techniques
H NAGA RAJU	BT.B.C	Enzymes useful in molecular cloning: Restriction endonuclease, DNA ligases, polynucleotide kinase, klenow enzyme, DNA Polymerase- I, reverse transcriptase, alkaline phosphatase, terminal nucleotidyltransferase
METTU JEEVAN KUMAR	BT.B.C	Cloning Vectors: PBR 322, Bacteriophage, Cosmid, Phagemid, Shuttle vector
MUDAVATH INDU	BT.B.C	Polymerase Chain Reaction and its applications
P RAJESHWARI	BT.B.C	Structure of prokaryotic and eukaryotic gene (promoter, initiator & terminator regions) Structure and functions of RNA polymerase
PULAGAM ESHWAR CHANDRA VIDYA SAGAR	BT.B.C	Enzymes useful in molecular cloning: Restriction endonuclease, DNA ligases, polynucleotide kinase, klenow enzyme, DNA Polymerase- I, reverse transcriptase, alkaline phosphatase, terminal nucleotidyltransferase
RATHOD KRUTHIK NAIK	BT.B.C	Cloning Vectors: PBR 322, Bacteriophage, Cosmid, Phagemid, Shuttle vector
SARE SHIVA PRASAD	BT.B.C	Polymerase Chain Reaction and its applications
SHUBANGINI THAKUR	BT.B.C	Structure of prokaryotic and eukaryotic gene (promoter, initiator & terminator regions) Structure and functions of RNA polymerase
S PRAVEEN KUMAR REDDY	BT.B.C	Enzymes useful in molecular cloning: Restriction endonuclease, DNA ligases, polynucleotide kinase, klenow enzyme, DNA Polymerase- I, reverse transcriptase, alkaline phosphatase, terminal nucleotidyltransferase
TEJAVATH AKHIL	BT.B.C	Blotting techniques

#### Assignment 2

Name of the student	Class	Topic
BIJJA PAVANI	BT.Z.C	Cloning Vectors: PBR 322, Bacteriophage, Cosmid, Phagemid, Shuttle vector
BODDU YASHWANTH	BT.Z.C	Structure of prokaryotic and eukaryotic gene (promoter, initiator & terminator regions) Structure and functions of RNA polymerase
CHELLURI SRUJANA	BT.Z.C	Transcription mechanism- initiation, elongation & proof reading, termination (rho independent & rho dependent); basic concept of reverse transcription

		Post transcriptional modification in eukaryotes
DOVUR VEERESH	BT.Z.C	Genetic code- properties, deciphering of genetic code, wobble hypothesis, aminoacylation
GUDIPATI SONY	BT.Z.C	Translation mechanism- initiation, elongation and termination
GUGLAVATH VENKATESH	BT.Z.C	Gene regulation: Negative & Positive control Operon concept, Lac operon, CAP-cAMP system, Arabinose operon
KANDUNURI BHARGAVI	BT.Z.C	Enzymes useful in molecular cloning: Restriction endonuclease, DNA ligases, polynucleotide kinase, klenow enzyme, DNA Polymerase- I, reverse transcriptase, alkaline phosphatase, terminal nucleotidyltransferase
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MUNIGALA SHANKAR	BT.Z.C	Structure of prokaryotic and eukaryotic gene (promoter, initiator & terminator regions) Structure and functions of RNA polymerase
NAKKA ANUSHA	BT.Z.C	Transcription mechanism- initiation, elongation & proof reading, termination (rho independent & rho dependent); basic concept of reverse transcription Post transcriptional modification in eukaryotes
PALADI SRAVAN KUMAR	BT.Z.C	Genetic code- properties, deciphering of genetic code, wobble hypothesis, aminoacylation
<b>PARAKALA MADHAN GOUD</b>	<b>BT.Z.C</b>	Translation mechanism- initiation, elongation and termination
<b>PERKA PRAVEEN</b>	<b>BT.Z.C</b>	Enzymes useful in molecular cloning: Restriction endonuclease, DNA ligases, polynucleotide kinase, klenow enzyme, DNA Polymerase- I, reverse transcriptase, alkaline phosphatase, terminal nucleotidyltransferase
<b>PUTTA SAI KRISHNA</b>	<b>BT.Z.C</b>	Cloning Vectors: PBR 322, Bacteriophage, Cosmid, Phagemid, Shuttle vector
<b>RATHOD SHIREESHA</b>	<b>BT.Z.C</b>	Polymerase Chain Reaction and its applications
SABBITHI AISHWARYA	BT.Z.C	Structure of prokaryotic and eukaryotic gene (promoter, initiator & terminator regions) Structure and functions of RNA polymerase
TALLAPRODDATUR DHANUSH	BT.Z.C	Enzymes useful in molecular cloning: Restriction endonuclease, DNA ligases, polynucleotide kinase, klenow enzyme, DNA Polymerase- I, reverse transcriptase, alkaline phosphatase, terminal nucleotidyltransferase
TOPARAM PRANEETH	BT.Z.C	Cloning Vectors: PBR 322, Bacteriophage, Cosmid, Phagemid, Shuttle vector
Vaishnavi	BT.Z.C	Structure of prokaryotic and eukaryotic gene (promoter, initiator & terminator regions)

		Structure and functions of RNA polymerase
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GANTA SRUJAN	BT.B.C	Translation mechanism- initiation, elongation and termination
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METTU JEEVAN KUMAR	BT.B.C	Enzymes useful in molecular cloning: Restriction endonuclease, DNA ligases, polynucleotide kinase, klenow enzyme, DNA Polymerase- I, reverse transcriptase, alkaline phosphatase, terminal nucleotidyltransferase
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PULAGAM ESHWAR CHANDRA VIDYA SAGAR	BT.B.C	Structure of prokaryotic and eukaryotic gene (promoter, initiator & terminator regions) Structure and functions of RNA polymerase
RATHOD KRUTHIK NAIK	BT.B.C	Transcription mechanism- initiation, elongation & proof reading, termination (rho independent & rho dependent); basic concept of reverse transcription Post transcriptional modification in eukaryotes
SARE SHIVA PRASAD	BT.B.C	Genetic code- properties, deciphering of genetic code, wobble hypothesis, aminoacylation
SHUBANGINI THAKUR	BT.B.C	Translation mechanism- initiation, elongation and termination
S PRAVEEN KUMAR REDDY	BT.B.C	Gene regulation: Negative & Positive control Operon concept, Lac operon, CAP-cAMP system, Arabinose operon
TEJAVATH AKHIL	BT.B.C	Enzymes useful in molecular cloning: Restriction endonuclease, DNA ligases, polynucleotide kinase, klenow enzyme, DNA Polymerase- I, reverse transcriptase, alkaline phosphatase, terminal nucleotidyltransferase

Plant biotechnology

Assignment 1

Name of the student	class	Topic
BIJJA PAVANI	BT.Z.C	Introduction to plant tissue culture, totipotency of plant cells (Dedifferentiation, redifferentiation, regeneration of whole plant)
BODDU YASHWANTH	BT.Z.C	Nutritional requirements for plant tissue culture: nutrient media – macronutrients and micronutrients, media additives (carbon source, vitamins, amino acids)
CHELLURI SRUJANA	BT.Z.C	Regeneration of plants (Organogenesis and embryogenesis)
DOVUR VEERESH	BT.Z.C	Meristem culture and production of disease free plants
GUDIPATI SONY	BT.Z.C	
GUGLAVATH VENKATESH	BT.Z.C	Plant growth regulators (cytokinins, auxins, gibberellins).
KANDUNURI BHARGAVI	BT.Z.C	Preparation of media, selection and surface sterilization of explants, inoculation, incubation (temperature and light regime), regeneration of plants
KANIMELLA SANDHYA	BT.Z.C	Initiation of callus cultures and cell suspension cultures
M NITHYA KRUTHI	BT.Z.C	Regeneration of plants (Organogenesis and embryogenesis)
MUNIGALA SHANKAR	BT.Z.C	Meristem culture and production of disease free plants
NAKKA ANUSHA	BT.Z.C	Methods of cryopreservation for conservation of plant germplasm
PALADI SRAVAN KUMAR	BT.Z.C	Somaclonal variation and their applications; production of haploids, Anther and pollen culture
PARAKALA MADHAN GOUD	BT.Z.C	Embryo culture and embryo rescue; Protoplast culture and fusion, Development of somatic hybrids and cybrids and their applications
PERKA PRAVEEN	BT.Z.C	Cell suspension cultures (batch and continuous culture) for production of secondary metabolites
PUTTA SAI KRISHNA	BT.Z.C	Micropropagation of elite ornamental, horticultural plants via organogenesis and somatic embryogenesis, encapsulation and production of synthetic seeds
RATHOD SHIREESHA	BT.Z.C	Insect resistant plants: Bt corn, Bt cotton
SABBITHI AISHWARYA	BT.Z.C	Herbicide resistant plants: production of glyphosate tolerant plants
TALLAPRODDATUR DHANUSH	BT.Z.C	Transgenic plants as Bioreactor: Antibody production in plants, Biodegradable plastics
TOPARAM PRANEETH	BT.Z.C	Stress tolerant plants : Overview of Drought and Light stress
Vaishnavi	BT.Z.C	Transgenic plants with enhanced nutritive values: Vitamin A, Vitamin

V GOVARDHAN	BT.Z.C	Virus resistant plants: Transgenic plants with viral coat protein and viral nucleoprotein
A THEJA	BT.B.C	Regeneration of plants (Organogenesis and embryogenesis)
GANTA SRUJAN	BT.B.C	Meristem culture and production of disease free plants
H NAGA RAJU	BT.B.C	Methods of cryopreservation for conservation of plant germplasm
METTU JEEVAN KUMAR	BT.B.C	Somaclonal variation and their applications; production of haploids, Anther and pollen culture
MUDAVATH INDU	BT.B.C	Embryo culture and embryo rescue; Protoplast culture and fusion, Development of somatic hybrids and cybrids and their applications
P RAJESHWARI	BT.B.C	Cell suspension cultures (batch and continuous culture) for production of secondary metabolites
PULAGAM ESHWAR CHANDRA VIDYA SAGAR	BT.B.C	Micropropagation of elite ornamental, horticultural plants via organogenesis and somatic embryogenesis, encapsulation and production of synthetic seeds
RATHOD KRUTHIK NAIK	BT.B.C	Insect resistant plants: Bt corn, Bt cotton
SARE SHIVA PRASAD	BT.B.C	Herbicide resistant plants: production of glyphosate tolerant plants
SHUBANGINI THAKUR	BT.B.C	Transgenic plants as Bioreactor: Antibody production in plants, Biodegradable plastics
S PRAVEEN KUMAR REDDY	BT.B.C	Stress tolerant plants : Overview of Drought and Light stress
TEJAVATH AKHIL	BT.B.C	Transgenic plants with enhanced nutritive values: Vitamin A, Vitamin

### Assignment 2

Name of the student	class	Topic
BIJJA PAVANI	BT.Z.C	Meristem culture and production of disease free plants
BODDU YASHWANTH	BT.Z.C	Methods of cryopreservation for conservation of plant germplasm
CHELLURI SRUJANA	BT.Z.C	Somaclonal variation and their applications; production of haploids, Anther and pollen culture
DOVUR VEERESH	BT.Z.C	Embryo culture and embryo rescue; Protoplast culture and fusion, Development of somatic hybrids and cybrids and their applications
GUDIPATI SONY	BT.Z.C	Cell suspension cultures (batch and continuous culture) for production of secondary metabolites
GUGLAVATH VENKATESH	BT.Z.C	Micropropagation of elite ornamental, horticultural plants via organogenesis and somatic embryogenesis, encapsulation and production of

		synthetics seeds
KANDUNURI BHARGAVI	BT.Z.C	Insect resistant plants: Bt corn, Bt cotton
KANIMELLA SANDHYA	BT.Z.C	Herbicide resistant plants: production of glyphosate tolerant plants
M NITHYA KRUTHI	BT.Z.C	Transgenic plants as Bioreactor: Antibody production in plants, Biodegradable plastics
MUNIGALA SHANKAR	BT.Z.C	Stress tolerant plants : Overview of Drought and Light stress
NAKKA ANUSHA	BT.Z.C	Transgenic plants with enhanced nutritive values: Vitamin A, Vitamin
PALADI SRAVAN KUMAR	BT.Z.C	Virus resistant plants: Transgenic plants with viral coat protein and viral nucleoprotein
PARAKALA MADHAN GOUD	BT.Z.C	Regeneration of plants (Organogenesis and embryogenesis)
PERKA PRAVEEN	BT.Z.C	Meristem culture and production of disease free plants
PUTTA SAI KRISHNA	BT.Z.C	Methods of cryopreservation for conservation of plant germplasm
RATHOD SHIREESHA	BT.Z.C	Somaclonal variation and their applications; production of haploids, Anther and pollen culture
SABBITHI AISHWARYA	BT.Z.C	Embryo culture and embryo rescue; Protoplast culture and fusion, Development of somatic hybrids and cybrids and their applications
TALLAPRODDATUR DHANUSH	BT.Z.C	Cell suspension cultures (batch and continuous culture) for production of secondary metabolites
TOPARAM PRANEETH	BT.Z.C	Introduction to plant tissue culture, totipotency of plant cells (Dedifferentiation, redifferentiation, regeneration of whole plant)
Vaishnavi	BT.Z.C	Nutritional requirements for plant tissue culture: nutrient media – macronutrients and micronutrients, media additives (carbon source, vitamins, amino acids)
V GOVARDHAN	BT.Z.C	Regeneration of plants (Organogenesis and embryogenesis)
A THEJA	BT.B.C	Meristem culture and production of disease free plants
GANTA SRUJAN	BT.B.C	
H NAGA RAJU	BT.B.C	Plant growth regulators (cytokinins, auxins, gibberellins).
METTU JEEVAN KUMAR	BT.B.C	Preparation of media, selection and surface sterilization of explants, inoculation, incubation (temperature and light regime), regeneration of plants
MUDAVATH INDU	BT.B.C	Initiation of callus cultures and cell suspension cultures
P RAJESHWARI	BT.B.C	Regeneration of plants (Organogenesis and embryogenesis)

PULAGAM ESHWAR CHANDRA VIDYA SAGAR	BT.B.C	Insect resistant plants: Bt corn, Bt cotton
RATHOD KRUTHIK NAIK	BT.B.C	Herbicide resistant plants: production of glyphosate tolerant plants
SARE SHIVA PRASAD	BT.B.C	Transgenic plants as Bioreactor: Antibody production in plants, Biodegradable plastics
SHUBANGINI THAKUR	BT.B.C	Stress tolerant plants : Overview of Drought and Light stress
S PRAVEEN KUMAR REDDY	BT.B.C	Transgenic plants with enhanced nutritive values: Vitamin A, Vitamin
TEJAVATH AKHIL	BT.B.C	Insect resistant plants: Bt corn, Bt cotton

### ASSIGNMENT-1

#### SEMI

B.Sc lifesciences

Cell biology and genetics

Name of the student	TOPIC
D GOVIND	Linkage and recombination- Cytological proof of crossing over, phases of linkage, recombination frequency, gene mapping and map distance
GOLUSULA SARITHA	Hardy-Weinberg Equilibrium, allelic and genotypic distribution
SAMEERA BEGUM	Chloroplast inheritance in Chlamydomonas
VANKUDOTH MAHESH	Mitochondrial inheritance in human and poky in Neurospora crassa
BANOTH SHASHI KUMAR	Cytoplasmic male sterility in Maize and Paramecium
EMMADI AMSHA	Non-Mendelian Inheritance – Maternal effect (Shell coiling in snail), variegation in leaves of Mirabilis jalapa
GHOUSIA SAMEE	Mendel's experiments- factors contributing to success of Mendel's experiments
PADMA MOUNIKA	Law of segregation- Monohybrid Ratio; Law of independent assortment- Dihybrid Ratio, Trihybrid Ratio
SWARNA HARSHITHA	X-Y chromosomes - Sex determination in Drosophila, Birds, Man, Bonellia; X-linked inheritance– Hemophilia and Color blindness; X-inactivation; Y-linked inheritance Holandric genes
VEERABATHINI NANDINI	Multiple allelism (eg: Coat color in Rabbits, eye color in Drosophila and ABO Blood groups)
VUTCHURU HARINARAYANA PRUDHVI	Penetrance and Expressivity (eg: Polydactyly, Waardenburg syndrome), pleiotropism, phenocopy- microcephaly, cleft lip
Y RAMA DEVI	Deviation from Mendel's laws- partial or incomplete dominance (eg: Flower

	Color in <i>Mirabilis jalapa</i> ), Co-dominance (eg: MN Blood groups), Non allelic interactions-types of epistasis, modification of dihybrid ratios
PABBA MANOHAR	Linkage and recombination- Cytological proof of crossing over, phases of linkage, recombination frequency, gene mapping and map distance
GOLI VARSHITHA	Hardy-Weinberg Equilibrium, allelic and genotypic distribution
MOHAMMAD ABDUL MUJEEB	Deviation from Mendel's laws- partial or incomplete dominance (eg: Flower Color in <i>Mirabilis jalapa</i> ), Co-dominance (eg: MN Blood groups), Non allelic interactions-types of epistasis, modification of dihybrid ratios
PATLURI TULASI BHAVANI	Linkage and recombination- Cytological proof of crossing over, phases of linkage, recombination frequency, gene mapping and map distance
R ROHINI SRI SAI	Hardy-Weinberg Equilibrium, allelic and genotypic distribution

## ASSIGNMENT-2

### SEMI

B.Sc lifesciences

Cell biology and genetics

Name of the student	
D GOVIND	Cell as basic unit of living organisms-bacterial, fungal, plant and animal
GOLUSULA SARITHA	cells Ultrastructure of prokaryotic cell (cell membrane and plasmids, Nucleoid)
SAMEERA BEGUM	Ultrastructure of eukaryotic cell (cell wall, cell membrane, nucleus, mitochondria, chloroplast, endoplasmic reticulum, Golgi apparatus, vacuoles)
VANKUDOTH MAHESH	Fluid mosaic model, Sandwich model, Cell membrane permeability
BANOTH SHASHI KUMAR	Structure of chromosome-morphology, components of chromosomes (histones and nonhistones), specialized chromosomes (Polytene, Lampbrush)
EMMADI AMSHA	Chromosomal aberrations- structural and numerical
GHOUSIA SAMEE	Bacterial cell division
PADMA MOUNIKA	Eukaryotic cell cycle –phases
SWARNA HARSHITHA	Mitosis - Stages (spindle assembly)-significance
VEERABATHINI NANDINI	Meiosis- Stages (synaptonemal complex)-significance
VUTCHURU HARINARAYANA PRUDHVI	Senescence and necrosis
Y RAMA DEVI	Apoptosis
PABBA MANOHAR	cells Ultrastructure of prokaryotic cell (cell membrane and plasmids, Nucleoid)
GOLI VARSHITHA	Ultrastructure of eukaryotic cell (cell wall, cell



	membrane, nucleus, mitochondria, chloroplast, endoplasmic reticulum, Golgi apparatus, vacuoles)
MOHAMMAD ABDUL MUJEEB	Fluid mosaic model, Sandwich model, Cell membrane permeability
PATLURI TULASI BHAVANI	Structure of chromosome-morphology, components of chromosomes (histones and nonhistones), specialized chromosomes (Polytene, Lampbrush)
R ROHINI SRI SAI	Eukaryotic cell cycle –phases

