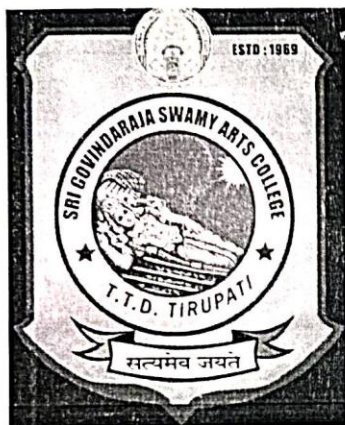


Om Namo Venkatesaya
TIRUMALA TIRUPATI DEVASTHANAMS
SRI GOVINDARAJASWAMY ARTS COLLEGE

DEPARTMENT OF Botany



QUIZ PROGRAMME
ACADEMIC YEAR 2023-2024

TIRUPATI,

DATE: 20/11/23

From

The HOD of Botany,
S.G.S.Arts College,
TIRUPATI.

To

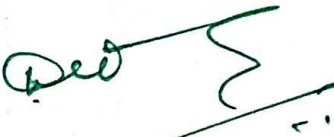
The Principal,
S.G.S.Arts College, TIRUPATI.

Respected Sir,


Sub:- Permission for Conducting Quiz Competition - Request- Regarding.

We are conducting Quiz Competition for II & III year B.Sc.Botany Students through . Hence,
I am requesting you to grant me permission on 23/11/23.

Thanking you Sir,



PRINCIPAL
S.G.S. ARTS COLLEGE
T.T.D., TIRUPATI.



Yours Faithfully,
HEAD
Dept. of Botany
S. G. S. Arts College TIRUPATI


TIRUPATI,

DATE: 20/11/23

CIRCULAR

This is to inform that a Quiz Programme is planned to be conducted in room No. 111 on 23-11-2023 for the students of Botany.

All the I & III year of B.Sc., Botany Students must attend the programme without fail.


HEAD
Dept. of Botany
G. S. Arts College TIRUPATI

Copy to

Notice Board.

S.G.S. ARTS COLLEGE, TTD, TIRUPATI
DEPARTMENT OF BOTANY
QUIZ PROGRAMME
ACADEMIC YEAR 2023-2024

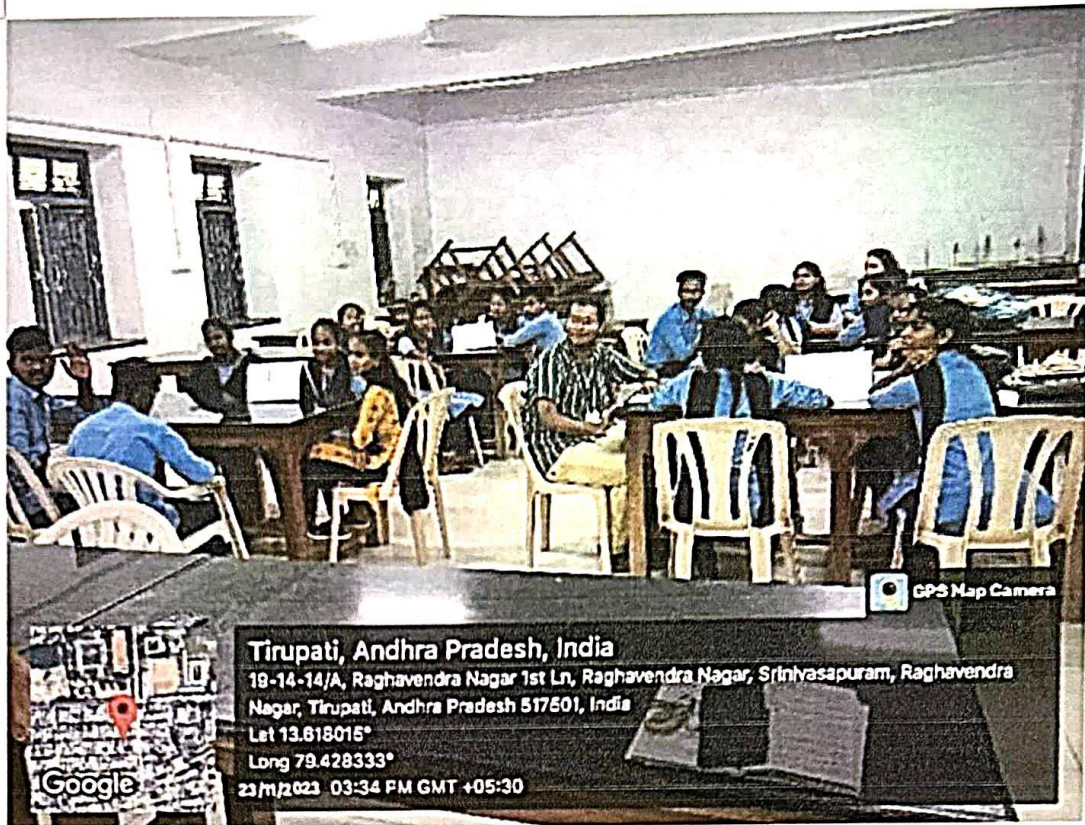
QUIZ PROGRAMME (23-11-2023)

Department of Botany has Conducted Quiz Programme in room No. 111 on 23-11-2023 for the students of Botany. For conducting the Quiz, we Divided students into four Teams.

S.G.S.ARTS COLLEGE, TTD, TIRUPATI
Department of Botany
EVENT ORGANISED REPORT:2023 – 24

1	Name of the Department	Botany
2	Name of Event Organized	Botany Department
3	Title of Event Organized	Quiz Competition
4	Name of Coordinator of Event	T. Sakutala B. Sulochana Rani Dr. P. Saritha
5	Class of the Participants	B.Sc. Botany
6	No. of Participants	41
7	Objective of the Event	Students can learn about the main concepts and methods of plants.
8	Outcome of the Event	Participants will have a better understanding of various botanical concepts and terms.


HEAD
Dept. of Botany
S G S Arts College TIRUPATI





S.G.S. ARTS COLLEGE (A), TTD, TIRUPATI

DEPARTMENT BOTANY

EVENT ORGANISED REPORT 2023-24

QUIZ PROGRAMME (23-11-2024)

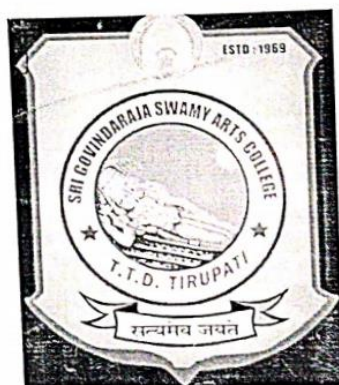
S.NO	Hall ticketNumbers	NAME OF STUDENTS	Signature
1.	0323008038	ALLAPAKA LAHARI	A. LAHARI
2.	0323008040	ATTLA POOJITHA	A. POOJITHA
3.	0323008041	BANGARU GOVARDHAN	B. Govardhan
4.	0323008045	BELLAM BHANUPRASAD	B. Bhanuprasad
5.	0323008054	CHANDRAGIRI UMANAGESWARI	C. Umanageswari
6.	0323008056	CHITHENI VENKATA LAKSHMI	C. Venkata Lakshmi
7.	0323008060	DUBBOLLA PRASHANTH	D. Prashanth
8.	0323008063	GODDUMARI SAI CHARAN	G. Sai Charan
9.	0323008068	GURRAM RAVINDRA	G. Ravindra
10.	0323008069	KADIMPATTU DINESH	K. Dinesh

11.	0323008070	KAKASI INDRAJA	K. Indraja
12.	0323008072	Kalluru Yamini	K. Yamini
13.	0323008081	KOTHAKOTA CHAMANTHI	K. Chamanthi
14.	0323008084	KUKKUNOORU SACHIN	K. Sachin
15.	0323008087	MADAVAN MANJULA	M. Manjula
16.	0323008089	MALLA ALEKHYA	M. Alekhya
17.	0323008090	MALLARAPU ANU SREE	M. Anushree
18.	0323008092	MANDALAM SASANKA	M. Sasanka
19.	0323008093	MANDURU SELVI	M. Sevi
20.	0323008094	MARADHALAM SNEHA	M. SNEHA
21.	0323008095	MARKONDA RAKESH	M. Rakesh
22.	0323008096	MATAM HIMABINDU	M. Himabindu
23.	0323008099	MEKALA REDDY MANJULA	M. Reddy Manjula
24.	0323008100	MUDDAMSETTY JAGADEESH	M. Jagadeesh
25.	0323008102	NANGINI GOWTHAM	N. Goutham
26.	0323008105	P MUNIJEEVAN PRASAD	P. Munijeevan Prasad
27.	0323008106	PANNURU STELLA	P. Stella

28.	0323008109	PATURI JAYANTH	P. Jayanth
29.	0323008110	PERAM PAVANI	P. Pavani
30.	0323008114	RUDRAPAKULA MAHENDRA	R. Mahendra
31.	0323008115	S HARIKA	S. Harika
32.	0323008116	SAGILI HANUK	S. Hanuk
33.	0323008119	SRINIVASULU GARI TEJASWINI	S. Tejaswini
34.	0323008122	SYED UZREEN	S. Uzreen
35.	0323008125	THUMBHURU AKHIRNANDAN	T. Akhirnandan
36.	0323008128	UPPARI HARI PRASAD	U. Prasad
37.	0323008133	VISWANADHAM SELVI	V. Selvi
38.	0323008137	YANASANI RAJESH REDDY	Y. Rajesh Reddy
39.	0323008138	YELIKICHARLA SRINIVAS	Y. Srinivas
40.	0323008139	YENNAMPALLI APARNA	Y. APARNA
41.	0323008190	BUKKE SANDEEP NAIK	B. Sandeep naik


HEAD
 Dept. of Botany
 A.G.S. Arts College, TIRUPATI

Om Namo Venkatesaya
TIRUMALA TIRUPATI DEVASTHANAMS
SRI GOVINDARAJASWAMY ARTS COLLEGE
DEPARTMENT OF Biotechnology



QUIZ PROGRAMME
ACADEMIC YEAR 2023-2024

TIRUPATI,

DATE: 14/11/23

From

The HOD of Biotechnology,

S.G.S.Arts College,

TIRUPATI.

To

The Principal, S.G.S.Arts College, TIRUPATI.

Respected Sir,

Sub:- Permission for Conducting Online Quiz Competition - Request

- Regarding.

We are conducting Quiz Competition for I year B.Sc. Biotechnology Students through .

Hence, I am requesting you to grant me permission on 16/11/23.

Thanking you Sir,

Yours Faithfully,

B. Seetha
HEAD

DEPARTMENT OF BIOTECHNOLOGY
S.G.S. ARTS COLLEGE
TIRUPATI-517 502

TIRUPATI,

DATE: 14/11/23

CIRCULAR

This is to inform that a Quiz Programme is planned to be conducted in room No. 315 on
16-11-2023 for the students of Biotechnology.

All the 1 year of B.Sc., B.Com., B.A., Biotechnology Students must attend the programme
without fail.


HEAD
DEPARTMENT OF BIOTECHNOLOGY
S.G.S. ARTS COLLEGE
TIRUPATI-517 502

Copy to

Notice Board.

S.G.S. ARTS COLLEGE, TTD, TIRUPATI
DEPARTMENT Biotechnology
QUIZ PROGRAMME
ACADEMIC YEAR 2023-2024

QUIZ PROGRAMME (16-11-2023)

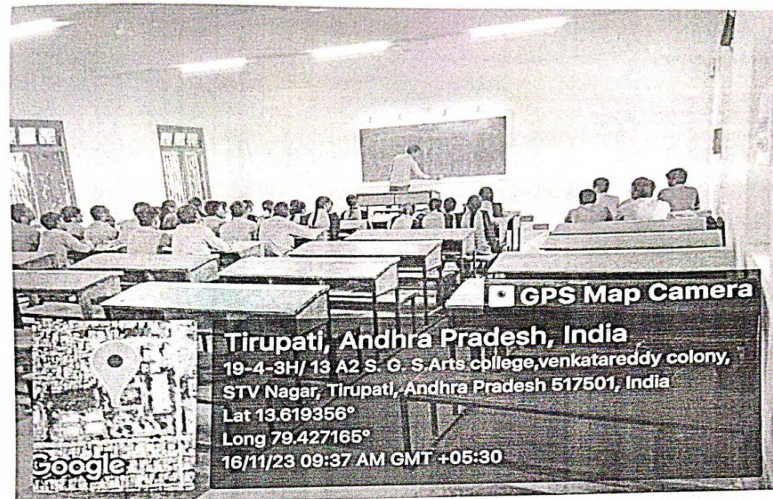
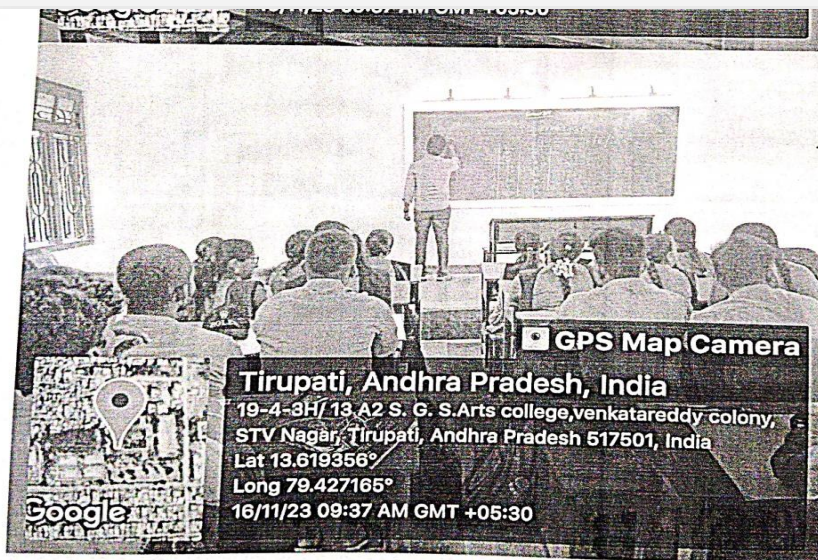
Department of Biotechnology has Conducted Quiz Programme in room No. 315 on 16-11-2023 for the students of Biotechnology. For conducting the Quiz, we Divided students into four Teams.

S.G.S.ARTS COLLEGE, TTD, TIRUPATI
Department of Biotechnology
EVENT ORGANISED REPORT:2023 – 24

1	Name of the Department	Biotechnology
2	Name of Event Organized	Biotechnology Department
3	Title of Event Organized	Quiz Competition
4	Name of Coordinator of Event	Dr. P M Ravi Kumar
5	Class of the Participants	B.Sc. Biotechnology
6	No. of Participants	38
7	Objective of the Event	To get knowledge about Immunoblotting, Monoclonal antibodies and ELISA
8	Outcome of the Event	Students obtained a clear knowledge about immunoblotting, Monoclonal antibodies and ELISA


HEAD
DEPARTMENT OF BIOTECHNOLOGY
S.G.S. ARTS COLLEGE
TIRUPATI-517 502





S.G.S. ARTS COLLEGE (A), TTD, TIRUPATI

DEPARTMENT BIOTECHNOLOGY

EVENT ORGANISED REPORT 2023-24

QUIZ PROGRAMME (16-11-2024)

S.NO	Hall ticket Numbers	NAME OF STUDENTS	Signature
1.	0324008230	A. Kinnera	A. Kinnera
2.	0324008231	A. Venkatesh	A. Venkatesh
3.	0324008232	B. mouliswar Reddy	B. Mooliswar Reddy
4.	0324008233	B. Kishore naik	B. Kishore naik
5.	0324008234	C. Pavan	C. Pavan
6.	0324008235	D. Dastagiri Babu	D. Dastagiri Babu
7.	0324008236	D. Lal Basha	D. Lal Basha
8.	0324008237	E. Sada siva	E. Sada siva
9.	0324008238	G. Shashi Kumari	G. Shashikumari
10.	0324008239	J. Teju	J. Teju
11.	0324008240	K. Dithin Luyee	K. Dithin Luyee
12.	0324008241	K. Akshitha	K. Akshitha

13.	0324008242	K. Kasthuraiah	K. Kasthuraiah
14.	0324008243	K. Shiva mani	K. Sivamani
15.	0324008244	K. Shiva leela Krishna	K. Shiva leela Krishna
16.	0324008246	K. Anjali	K. Anjali.
17.	0324008247	K. Abhishek	K. Abhishek
18.	0324008248	M. Preethi	M. Preethi
19.	0324008249	M. Chandrika	M. Chandrika
20.	0324008250	M. Lahari	M. Lahari
21.	0324008251	M. Manichadri	M. Manichandria
22.	0324008252	M. Diva	M. Divya
23.	0324008253	M. Sathsh Naik	M. Sathish Naik
24.	0324008254	M. Arun Kumar	M. Arunkumar
25.	0324008256	N. Mallikarjuna	N. Mallikarjuna
26.	0324008257	N. Reddy Prathap	N. Reddy prathap
27.	0324008258	P. Soni	P. Soni
28.	0324008259	P. Mahaboob Basha	P. Mahaboob basha
29.	0324008260	P. Gowthami	P. Gowthami
30.	0324008261	R. Bhavana	R. Bhavana
31.	0324008262	S. Chakradhar	S. Chakradhar
32.	0324008263	S. Gnanavardhan	S. Gnanavardhan
33.	0324008264	T. Devi	T. Devi

1.

34.	0324008265	T. Janardhan	T. Janardhan
35.	0324008266	V. Rakesh	V. Rakesh
36.	0324008267	V. Arthi	V. Arthi
37.	0324008268	Y. lakshith Kumar	Y. Lakshith Kumar
38.	0324008269	Y. Niranjana	Y. Niranjana

Department of Hotel Management

Quiz Programme

QUIZ Format

Tirupati
Date:15/10/24

From

The HOD of BSC CT& HM
S.G.S. Arts College,
Tirupati.

To

The Principal,
S.G.S. Arts College,
Tirupati.

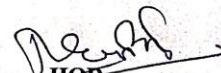
Respected Sir/Madam,

Sub: - Permission for conducting Quiz programme – Request – Regarding.

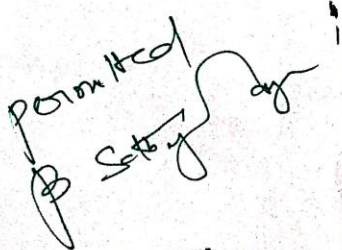
We are conducting Quiz programme for I,II ,III year
students of HOTEL MANAGEMENT in Room No 214 So, kindly grant us
permission on 16/10/24

Thanking you Sir/Madam,



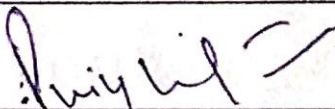
Yours faithfully


HOD

H.O.D.
CATERING TOURING &
HOTEL MANAGEMENT
S.G.S.ARTS COLLEGE
TIRUPATI


PRINCIPAL
S.G.S. ARTS COLLEGE
T.T.D., TIRUPATI.

DEPARTMENT OF HOTEL MANAGEMENT
COMMITTEE FOR QUIZ PROGRAMME
ACADEMIC YEAR – (Year)

S.NO.	NAME OF THE COMMITTEE MEMBERS	SIGNATURE
1	DR N JAGADEESH KUMAR	
2	SMT M PRADA	
3	SMT PRIYA SINGH	

SIGNATURE OF THE HOD


H.O.D.
CATERING TOURING &
HOTEL MANAGEMENT
S.G.S.ARTS COLLEGE
TIRUPATI

Phone: (0877) 2264599

E-mail: sgsartscollegettd@gmail.com

Web: sgsac.edu.in



TIRUMALA TIRUPATI DEVASTHANAMS
S.G.S. ARTS COLLEGE

Tiruchanur Road, TIRUPATI-517501

Prof. N. VENUGOPAL REDDY, M.Sc., M.Phil., Ph.D
PRINCIPAL (FAC)

QUIZ - DEPARTMENT OF HOTEL MANAGEMENT

ACADEMIC YEAR: (2023-2024)

S.NO.	PROGRAMME NAME	PROGRAMME CODE	TITLE OF THE QUIZ PROGRAMME	DATE OF CONDUCTION	TOTAL NO. OF BATCHES	WINNING BATCH
1.	QUIZ	001	HOSPITALITY CELEBRATION	16/10/24	04	TEAM B

H.O.D.
**CATERING TOURING &
HOTEL MANAGEMENT**
S.G.S.ARTS COLLEGE
TIRUPATI

**S.G.S. ARTS COLLEGE, TIRUCHANOUR ROAD,
TIRUPATI**

Student supporting programs / Events conducted

Name of the department: HOTEL MANAGEMENT

Academic year: (2023-2024)

S.No	Name of the Program/ Event	Date	Class	No. of Students Participated	Remark
1	QUIZ COMPETITION	16/10/24	I,II,III	25	

HOD

H.O.D.

**CATERING TOURING &
HOTEL MANAGEMENT
S.G.S.ARTS COLLEGE
TIRUPATI**

S.G.S. ARTS COLLEGE, TTD, TIRUPATI
Department of HOTEL MANAGEMENT
EVENT ORGANISED REPORT: (Year)

1	Name of the Department	HOTEL MANAGEMENT
2	Name of Event Organized	QUIZ
3	Title of Event Organized	QUIZ
4	Name of Coordinator of Event	DR N JAGADEESH KUMAR SMT M PRADA SMT PRIYA SINGH
5	Class of the Participants	BSC (CT&HM ,FS)BA TTM
6	No. of Participants	25
7	Objective of the Event	Create awareness the relation between hospitality, food and Tourism Industry
8	Outcome of the Event	Enlargement of student


H. HOD
**CATERING TOURING &
HOTEL MANAGEMENT**
S.G.S.ARTS COLLEGE
TIRUPATI



OM NAMO VENKATESAYA



**DEPARTMENT OF MICROBIOLOGY
SGS ARTS COLLEGE TTD.
TIRUPATI.**



Tirumala Tirupati Devasthanams
S.G.S ARTS COLLEGE
(శ్రీ నాగేశ్వర స్వామి ఆర్ట్స్ కళాశాల)
(AFFILIATED TO SRI VENKATESWARA UNIVERSITY, TIRUPATI)
ISO CERTIFIED INSTITUTION



QUIZ COMPETITION

Tirupati
Date:30/10/2023.

From

The HOD of Microbiology,
S.G.S. Arts College,
Tirupati.

To

The Principal,
S.G.S. Arts College,
Tirupati.

Respected Sir/Madam,

Sub: -Request for Permission to conduct Quiz programme regarding.

We are conducting Quiz programme for II- Year students of microbiology in Room No 316. So, kindly grant us permission to conduct Quiz programme.

Thanking you Sir/Madam,

Yours faithfully

HOD

HEAD
DEPT. OF MICROBIOLOGY
SOS ARTS COLLEGE
TIRUPATI-517501 (A.P.)



Tirumala Tirupati Devasthanams
S.G.S ARTS COLLEGE
(శ్రీ వేంకటేశ్వర స్వామి ఆస్థానం)
(AFFILIATED TO SRI VENKATESWARA UNIVERSITY, TIRUPATI)
ISO CERTIFIED INSTITUTION



DEPARTMENT OF MICROBIOLOGY
COMMITTEE FOR QUIZ PROGRAMME
ACADEMIC YEAR – 2023-2024

S.NO.	NAME OF THE COMMITTEE MEMBERS	SIGNATURE
1	Dr. K Sridevi	<i>K. Sridevi</i>
2		

SIGNATURE OF THE HOD

[Signature]
HEAD
DEPT. OF MICROBIOLOGY
SGS ARTS COLLEGE
TIRUPATI-517501 (A.P.)

Phone: (0877) 2264599

E-mail:sgsartscollegettd@gmail.com

Web: sgsac.edu.in



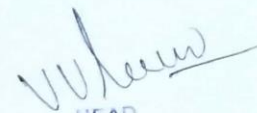
TIRUMALA TIRUPATI DEVASTHANAMS
S.G.S. ARTS COLLEGE

Tiruchanur Road, TIRUPATI-517501

QUIZ - DEPARTMENT OF MICROBIOLOGY

ACADEMIC YEAR: 2023-2024

S.NO	PROGRAMME NAME	PROGRAMME CODE	TITLE OF THE QUIZ PROGRAMME	DATE OF CONDUCTION	TOTAL NO. OF BATCHES	WINNING BATCH
1	Quiz	II-MZC	MEDICAL MICROBIOLOGY	30/10/2023	03	C


HEAD
DEPT. OF MICROBIOLOGY
SGS ARTS COLLEGE
TIRUPATI-517501 (A.P.)



Tirumala Tirupati Devasthanams
S.G.S ARTS COLLEGE

(శ్రీ దేవంపరాల సామల తర్ఫు కళాశాల)

(AFFILIATED TO SRI VENKATESWARA UNIVERSITY, TIRUPATI)
ISO CERTIFIED INSTITUTION



**S.G.S. ARTS COLLEGE, TIRUCHANOUR ROAD,
TIRUPATI**

Student supporting programs / Events conducted

Name of the department: MICROBIOLOGY

Academic year: 2023-2024

S.No	Name of the Program/ Event	Date	Class	No. of Students Participated	Remark
1	QUIZ COMPETITION	30/10/2023	II-MZC	18	

HOD

HEAD
DEPT. OF MICROBIOLOGY
SGS ARTS COLLEGE
TIRUPATI-517501 (A.P.)



Tirumala Tirupati Devasthanams
S.G.S ARTS COLLEGE

(శ్రీ నాగేశ్వరస్వామి సేవకు కళాశాల)

(AFFILIATED TO SRI VENKATESWARA UNIVERSITY, TIRUPATI)
ISO CERTIFIED INSTITUTION



S.G.S. ARTS COLLEGE, TTD, TIRUPATI

Department of MICROBIOLOGY

EVENT ORGANISED REPORT: 2023-2024

1	Name of the Department	MICROBIOLOGY
2	Name of Event Organized	QUIZ
3	Title of Event Organized	QUIZ
4	Name of Coordinator of Event	Dr.K.Sridevi
5	Class of the Participants	II-Year MZC Students
6	No. of Participants	18
7	Objective of the Event	<ul style="list-style-type: none">● Quiz help one gain a broad or specialized understanding of a subject.● Quiz are intended to encourage fun learning methods while also enhancing general knowledge.● Students can "think outside the box".● It encourages constructive dialogue among participants so they can benefit from one another.
8	Outcome of the Event	<ul style="list-style-type: none">● Students enjoy's the way of learning subject.

HEAD
DEPT. OF MICROBIOLOGY
S.G.S ARTS COLLEGE
TIRUPATI-517501 (A.P.)



Tirumala Tirupati Devasthanams
S.G.S ARTS COLLEGE

(శ్రీ వేంకటేశ్వర స్వామి ఆస్థాన కళాశాల)
(AFFILIATED TO SRI VENKATESWARA UNIVERSITY, TIRUPATI)
ISO CERTIFIED INSTITUTION



Department of MICROBIOLOGY
EVENT ORGANISED REPORT: 2023-2024

A quiz competition is conducted by the Department of MICROBIOLOGY

In the view of competitive awareness in students

Batch. No	Name of the Student	Class	Hall ticket No.	Student Signature	Marks Awarded	Remarks
1	B.Prudhvi naik	II-MZC	323008151	B. Prudhvi Naik	22	
	C.Bharath simha	II-MZC	323008153	C. Bharath Simha		
	T.Ganesh	II-MZC	323008173	T. Ganesh		
	S.K.Asif	II-MZC	323008171	S.K. Asif		
	K.Ishak Ali	II-MZC	323008160	K. Ishak Ali		
	P.Purushotham	II-MZC	323008167	P. Purushotham		
2	Y.Varshitha	II-MZC	323008175	Y. Varshitha	19	
	G.Vidyasagar	II-MZC	323008156	G. Vidyasagar		
	V.Navya Sree	II-MZC	323008174	V. Navya Sree		
	M.Shasidhar naik	II-MZC	323008161	M. Shashidhar Naik		
	P.Susroniya	II-MZC	323008166	P. Susroniya		
	D.Madhan	II-MZC	323008154	D. Madhan		
3	C.Ramprasad	II-MZC	323008152	C. Ramprasad	25	
	G.Dileep kumar	II-MZC	323008158	G. Dileep Kumar		
	G.Ganesh	II-MZC	323008159	G. Ganesh		
	R.Vishnuvardhan	II-MZC	323008157	R. Vishnu vardhan		
	G.Sivateja	II-MZC	323008157	G. Sivateja		
	M.Sairam	II-MZC	323008162	M. Sairam		

Organizing Committee: 1.Dr.K.Sridevi

V. S. Sridevi
HEAD
DEPT. OF MICROBIOLOGY
SGS ARTS COLLEGE
TIRUPATI-517501 (A.P.)



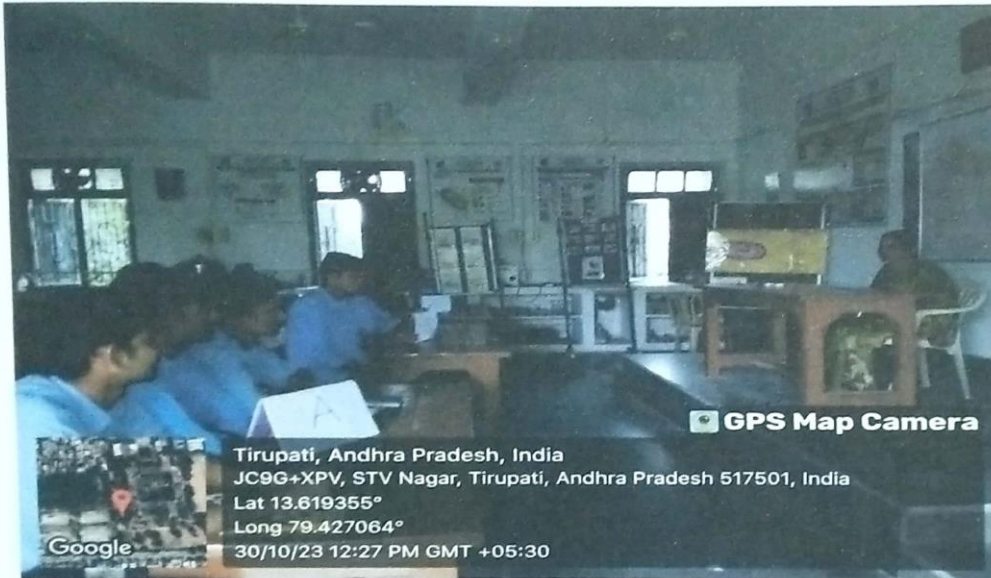
Tirumala Tirupati Devasthanams
S.G.S ARTS COLLEGE

(శ్రీ దేవాలయ స్థాన ఆర్ట్స్ కళాశాల)

(AFFILIATED TO SRI VENKATESWARA UNIVERSITY, TIRUPATI)
ISO CERTIFIED INSTITUTION



*** Photo Evidence:**



Volume
HEAD
DEPT. OF MICROBIOLOGY
SGS ARTS COLLEGE
TIRUPATI-517501 (A.P.)



Tirumala Tirupati Devasthanams
S.G.S ARTS COLLEGE

(శ్రీ గోవిందరొజు సేవకు ఆర్ట్స్ కళాశాల)
(AFFILIATED TO SRI VENKATESWARA UNIVERSITY, TIRUPATI)
ISO CERTIFIED INSTITUTION



FEEDBACK:

- Quiz competition enhance thinking capacity and competitive knowledge among the students.
- It helps in the sharing of knowledge , book reading activity and unity among the students.
- Students may habbitised to read many number of reference books for preparation and gain knowledge in subjects.
- It helps the students understand the concepts in easy way.

HEAD
DEPT. OF MICROBIOLOGY
SGS ARTS COLLEGE
TIRUPATI-517501 (A.P.)



Tirumala Tirupati Devasthanams

S.G.S Arts College, T.T.D, Tirupati

(Accredited with 'A+' by NAAC)

(Affiliated to Sri Venkateswara University,
Tirupati) ISO Certified Institution

Tiruchanoor Road, Tirupati - 517501

Department of Microbiology - 2023 to 2024

Quiz competition

1. What are the primary differences between Gram-positive and Gram-negative bacteria in terms of cell wall structure?
2. How do autotrophic bacteria obtain energy?
3. What is the function of bacterial endospores?
4. Which staining technique is used to differentiate Mycobacterium species from other bacteria?
5. What is the significance of Koch's postulates in microbiology?
6. How do bacteria develop resistance to antibiotics?
7. What is the difference between aerobic and anaerobic respiration in bacteria?
8. What is quorum sensing, and how does it affect bacterial behavior?
9. How do viruses differ from bacteria in terms of structure and replication?
10. What are the stages of the lytic cycle in bacteriophages?
11. Define the term "plasmid" and its significance in bacterial genetics.
12. What is the role of pili in bacterial conjugation?
13. How does horizontal gene transfer contribute to bacterial evolution?
14. What are extremophiles, and where are they typically found?
15. What is the role of methanogens in the carbon cycle?
16. What is the primary function of ribosomes in prokaryotic cells?
17. Describe the role of restriction enzymes in molecular biology.
18. How do biofilms form, and why are they important in microbiology?
19. What is the function of the bacterial flagellum?
20. What is a bacteriophage, and how does it infect bacterial cells?
21. Define the term "opportunistic pathogen."

22. What is the significance of the human microbiome in health and disease?
23. How do antibiotics such as penicillin inhibit bacterial growth?
24. What are prions, and how do they cause disease?
25. What are the main types of microbial metabolism?
26. How does fermentation differ from respiration in microorganisms?
27. What is a viral envelope, and how does it assist viruses in infecting host cells?
28. How do bacteriophages contribute to the horizontal gene transfer in bacteria?
29. What are the major components of the bacterial cell membrane?
30. Describe the role of cyanobacteria in the environment.
31. What is the difference between a primary pathogen and an opportunistic pathogen?
32. What is the function of the bacterial capsule, and how does it contribute to pathogenicity?
33. How are halophilic microorganisms adapted to high-salt environments?
34. What are the differences between antiseptics, disinfectants, and sterilization?
35. What is the role of RNA polymerase in transcription?
36. How do archaea differ from bacteria in terms of cell membrane composition?
37. Define the term "lysogeny" and its significance in viral life cycles.
38. What is the difference between direct and indirect transmission of infectious diseases?
39. What is the significance of nitrogen fixation in microbiology?
40. How do retroviruses replicate their genome?
41. What are the major groups of eukaryotic microorganisms?
42. What is the role of fungi in the decomposition of organic matter?
43. How does the immune system recognize and respond to bacterial infections?
44. What is the difference between innate and adaptive immunity?
45. How do antibiotics target bacterial ribosomes, and why are they selectively toxic?
46. What is the role of genetic engineering in producing recombinant proteins?
47. How does CRISPR-Cas9 technology allow for gene editing in microbes?
48. What are probiotics, and how do they benefit human health?
49. How do microorganisms play a role in biogeochemical cycles?
50. What is the principle of the polymerase chain reaction (PCR), and how is it used in microbiology?

Answers:

1. Gram-positive bacteria have a thick peptidoglycan layer and lack an outer membrane, while Gram-negative bacteria have a thinner peptidoglycan layer and an outer membrane.

2. Autotrophic bacteria obtain energy through photosynthesis or chemosynthesis.
3. Bacterial endospores are highly resistant structures that allow bacteria to survive in harsh conditions.
4. The Ziehl-Neelsen staining technique (acid-fast stain) is used to differentiate Mycobacterium species.
5. Koch's postulates are used to establish a causative relationship between a microorganism and a disease.
6. Bacteria develop resistance through mutations, efflux pumps, enzyme production, and biofilm formation.
7. Aerobic respiration uses oxygen as the final electron acceptor, while anaerobic respiration uses other molecules like nitrate or sulfate.
8. Quorum sensing is a communication mechanism that bacteria use to coordinate gene expression based on population density.
9. Viruses lack cellular structure and replicate by infecting host cells, whereas bacteria are single-celled organisms capable of independent reproduction.
10. The stages include attachment, penetration, biosynthesis, maturation, and lysis.
11. A plasmid is a small, circular DNA molecule that can replicate independently and often carries antibiotic resistance genes.
12. Pili mediate the transfer of genetic material between bacterial cells during conjugation.
13. Horizontal gene transfer allows bacteria to acquire genes from other organisms, contributing to genetic diversity and adaptation.
14. Extremophiles thrive in extreme environments such as hot springs, salt lakes, or acidic waters.
15. Methanogens produce methane as a metabolic byproduct in anaerobic conditions, playing a role in the carbon cycle.
16. Ribosomes synthesize proteins by translating mRNA.
17. Restriction enzymes cut DNA at specific sequences, enabling genetic manipulation in molecular biology.
18. Biofilms form when bacteria adhere to surfaces and produce extracellular polymeric substances, providing protection and increased resistance to antibiotics.
19. The bacterial flagellum provides motility by rotating like a propeller.
20. A bacteriophage is a virus that infects bacterial cells by injecting its genetic material.
21. An opportunistic pathogen causes disease when the host's defenses are compromised.
22. The human microbiome plays a crucial role in digestion, immunity, and disease prevention.
23. Penicillin inhibits bacterial cell wall synthesis by targeting the peptidoglycan layer.
24. Prions are misfolded proteins that cause neurodegenerative diseases by inducing misfolding in normal proteins.
25. The main types include aerobic respiration, anaerobic respiration, and fermentation.

26. Fermentation generates energy without oxygen, while respiration uses oxygen to produce more ATP.
27. A viral envelope helps the virus enter host cells by fusing with the host membrane.
28. Bacteriophages can transfer genetic material between bacteria through transduction.
29. The bacterial cell membrane is composed of a phospholipid bilayer with embedded proteins.
30. Cyanobacteria perform photosynthesis, contributing to oxygen production and nitrogen fixation in ecosystems.
31. A primary pathogen causes disease in healthy hosts, while an opportunistic pathogen infects immunocompromised individuals.
32. The bacterial capsule helps evade the immune system and protects against desiccation.
33. Halophiles use compatible solutes and specialized proteins to maintain osmotic balance in high-salt environments.
34. Antiseptics are used on living tissues, disinfectants on surfaces, and sterilization eliminates all microorganisms.
35. RNA polymerase synthesizes RNA from a DNA template during transcription.
36. Archaea have unique membrane lipids, such as ether-linked phospholipids, unlike bacteria.
37. Lysogeny is when a bacteriophage integrates its DNA into the host genome, where it can remain dormant.
38. Direct transmission involves physical contact, while indirect transmission involves contact through an intermediary object or vector.
39. Nitrogen fixation is the process by which certain bacteria convert atmospheric nitrogen into a form usable by plants.
40. Retroviruses reverse transcribe their RNA into DNA, which is integrated into the host genome.
41. Major groups include protozoa, algae, fungi, and slime molds.
42. Fungi decompose organic matter, recycling nutrients back into the ecosystem.
43. The immune system uses pattern recognition receptors to detect bacterial components and initiate an immune response.
44. Innate immunity is the immediate, non-specific defense, while adaptive immunity is specific and involves memory cells.
45. Antibiotics selectively target bacterial ribosomes, inhibiting protein synthesis without affecting human ribosomes.
46. Genetic engineering allows microbes to produce recombinant proteins by inserting foreign genes into microbial cells.
47. CRISPR-Cas9 technology allows for targeted gene editing by using guide RNA to direct the Cas9 enzyme to specific DNA sequences.
48. Probiotics are beneficial bacteria that help maintain gut health and prevent infections.

49. Microorganisms play a role in biogeochemical cycles by decomposing organic material and fixing essential elements like nitrogen and carbon.
50. PCR amplifies specific DNA sequences, allowing for the detection and analysis of microbial DNA.

Om Namo Venkatesaya

TIRUMALA TIRUPATI DEVASTHANAMS

SRI GOVINDARAJASWAMY ARTS COLLEGE

DEPARTMENT OF SANSKRIT



QUIZ PROGRAMME

ACADEMIC YEAR 2023-2024

TIRUPATI,

DATE: 12-03-2024.

From

The HOD of Sanskrit,
S.G.S.Arts College,
TIRUPATI.

To

The Principal,
S.G.S.Arts College,
TIRUPATI.


Respected Sir,

Sub:- Permission for Conducting Online Quiz Competition – Request
– Regarding.

We are conducting Online Quiz Competition for I year B.Sc., B.Com.,
B.A., Sanskrit Students through online. Hence, I am requesting you to grant me
permission on 14-03-2024.

Thanking you Sir,

Yours Faithfully,


H. P. OF SANSKRIT,
S. G. S. ARTS COLLEGE,
TIRUPATI. (A. P.)

TIRUPATI,

DATE: 13-03-2024.

CIRCULAR

This is to inform that a Quiz Programme is planned to be conducted on "Bhagavadgita" in room No. 309 on 14-03-2024 for the students of Sanskrit. All the I year of B.Sc., B.Com., B.A., Sanskrit Students must attend the programme without fail.


H. O. D. OF SANSKRIT,
S. G. S. ARTS COLLEGE,
TIRUPATI. (A. P.)

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DEPARTMENT SANSKRIT

QUIZ PROGRAMME

ACADEMIC YEAR 2023-2024

QUIZ PROGRAMME (14-03-2024)

Department of Sanskrit has Conducted Quiz Programme on “Bhagavadgita” in room No. 309 on 14-03-2024 for the students of Sanskrit. For conducting the Quiz we Divided students into four Teams.

S.G.S.ARTS COLLEGE, TTD, TIRUPATI

Department of Sanskrit

EVENT ORGANISED REPORT:2023 – 24

1	Name of the Department	Sanskrit
2	Name of Event Organized	Sanskrit Department
3	Title of Event Organized	Quiz Competition
4	Name of Coordinator of Event	Dr.K.Koteswaraiah
5	Class of the Participants	B.A., B.Sc., B.Com
6	No. of Participants	60
7	Objective of the Event	To improve the Spiritual Knowledge in students through Gita.
8	Outcome of the Event	The students develop the spiritual ideologies as a result.

Quiz Programme




Quiz Programme

S.G.S. ARTS COLLEGE (A), TTD, TIRUPATI
DEPARTMENT SANSKRIT
EVENT ORGANISED REPORT 2023-24
QUIZ PROGRAMME (14-03-2024)

Batch No	Name of the Student	Roll No.	Signature of the Student	Total Marks	Remarks
I- Samskruti	B. Muneeswari	MAT23002	B. Muneeswari	10	III PLACE
	G. Tirumala	MAT23007	G. Tirumala		
	K. Koteswara Rao	MAT23009	K. Koteswara Rao		
	K. Anusha	MAT23010	K. Anusha		
	K. Venkateswarlu	MAT23011	K. Venkateswarlu		
	M. Lalu Prasad	MAT23012	M. Lalu Prasad		
	M. Raghuvardhan	MAT23013	M. Raghuvardhan		
	V. Mohammad Sundar	MAT23017	V. Mohammad Sundar		
	A. Dhanush	CSC23004	A. Dhanush		
	B. Ashok	CSC23008	B. Ashok		
	B. Vardhan Kumar	CSC23010	B. Vardhan Kumar		
	B. Umesh	CSC23011	B. Umesh		
II- Samskaram	B. Vamsi	CSC23012	B. Vamsi	13	II PLACE
	B. Gnanendra	CSC23017	B. Gnanendra		
	B. Pujitha	CSC23018	B. Pujitha		
	C. Balaramudu	CSC23022	C. Balaramudu		
	CH. Pallavi	CSC23023	CH. Pallavi		
	C. Srinivasulu	CSC23025	C. Srinivasulu		
	C. Indra	CSC23026	C. Indra		
	C. Kalyan Kumar	CSC23028	C. Kalyan Kumar		
	D. Dilip Kumar Reddy	CSC23033	D. Dilip Kumar Reddy		
	D. Krishna Kumar	CSC23037	D. Krishna Kumar		
	E. Siva Naidu	CSC23038	E. Siva Naidu		
	G. Yaswanth	CSC23045	G. Yaswanth		

III- Sadacharam	P. Jayakrishna	CSC23103	P. Jayakrishna	16	IV PLACE
	P. Kishor	CSC23105	P. Kishor		
	P. Jyothi	CSC23106	P. Jyothi		
	P. Stifen	CSC23108	P. Stifen		
	R. Sreenu	CSC23113	R. Sreenu		
	S. Sushmitha	CSC23120	S. Sushmitha		
	S. Abdul Rehman	CSC23123	S. Abdul Rehman		
	S. Gulam Rabbani	CSC23124	S. Gulam Rabbani		
	S. Manasa	CSC23127	S. Manasa		
	S. Harshavardhan	CSC23129	S. Harshavardhan		
	S. Teja Sai Krishna	CSC23130	S. Teja Sai Krishna		
	T. Hemanth Kumar	CSC23134	T. Hemanth Kumar		
IV- Sampradayam	T. Sukumar	CSC23137	T. Sukumar	14	I PLACE
	T. Prakash	CSC23138	T. Prakash		
	T. Devisri Prasad	CSC23139	T. Devisri Prasad		
	A. Sivananda	CMC23006	A. Sivananda		
	B. Sushanth Kumar	CMG23021	B. Sushanth Kumar		
	B. Sai Kumar nayak	CMG23026	B. Sai Kumar nayak		
	D. Jasmin	CMG23042	D. Jasmin		
	I. Manohar Babu	CMG23053	I. Manohar Babu		
	K.R. Surekhavani	CMG23058	K.R. Surekhavani		
	K. Malleswari	CMG23059	K. Malleswari		
	K. Naveen Kumar	CMG23065	K. Naveen Kumar		
	M. Poornima	CMG23078	M. Poornima		

Organizing Committee: 1. Dr.K.Koteswaraiah
2. Dr.J.Kondal Rao
3. Dr.S.Vasantakumari
4. Dr.P.Siva kumar


H. O. OF SANSKRIT,
S. G. S. ARTS COLLEGE,
TIRUPATI. (A. P.)

SGS ARTS COLLEGE, TIRUPATI

DEPARTMENT OF ZOOLOGY

2023-2024

QUIZ PROGRAMME

S.NO	NAMES	Details
1	Name of the department	Zoology
2	Date of the Quiz programme conducted	September 2, 2024
3	Name of the coordinator	S N Shameer
4	Number of groups participated	3
5	Topic	VITAMIND & HORMONES
6	No of Students attended	18
7	No of faculty attended	2
8	Objective of the Event	To know the knowledge of different vitamin deficiency diseases and hormonal disorders in the human body
9	Outcome of the Event	The students understand types of vitamins of B Vitamins and water solvable Vitamins and their functionalities and hormones & it's disorders



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DEPARTMENT OF ZOOLOGY

2023-2024

QUIZ PROGRAMME

Date: 30-8-24

CIRCULAR ISSUED TO THE STUDENTS

This is to inform that the department is intended to conduct Quiz Programme on faculty preferred topic. In this regard, I hereby request all the B.Sc. CBZ/MZC Zoology students that those who are interested to participate in Quiz can enroll their names in the Zoology staff room. on 2-9-24.



HEAD OF THE DEPARTMENT, ZOOLOGY.

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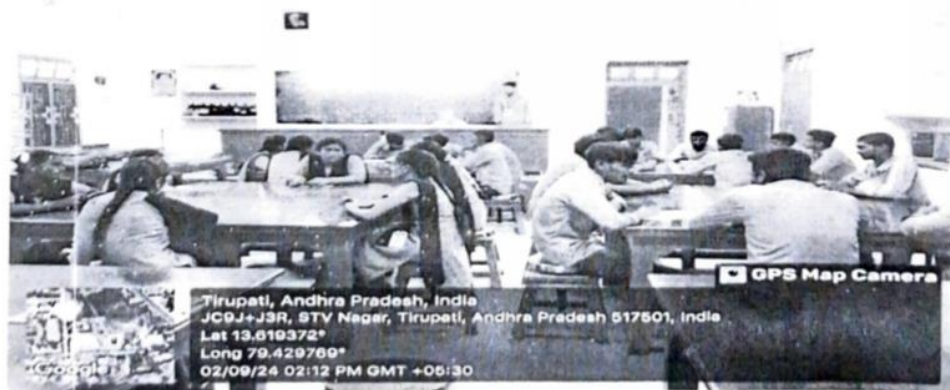
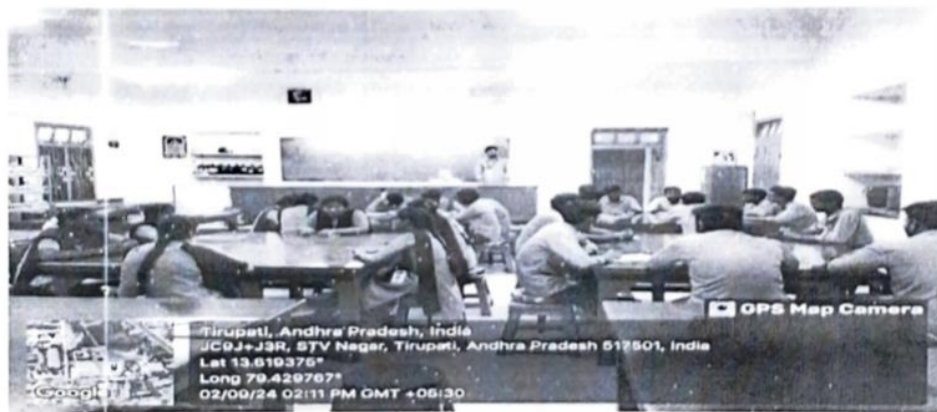
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DEPARTMENT OF ZOOLOGY

2023-24

QUIZ PROGRAM ON VITAMINS TOPIC



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MCQ's CONDUCTED ON "VITAMINS" QUIZ TOPIC:

1. Vitamin A or retinal is a

- (A) Steroid (B) Polyisoprenoid compound containing a cyclohexenyl ring
(C) Benzoquinone derivative (D) 6-Hydroxychromane

2. β -Carotene, precursor of vitamin A, is oxidatively cleaved by

- (A) β -Carotene dioxygenase (B) Oxygenase
(C) Hydroxylase (D) Transferase

3. Deficiency of Vitamin A causes

- (A) Xerophthalmia (B) Hypoprothrombinemia
(C) Megaloblastic anemia (D) Pernicious anemia

3. Carr-Price reaction is used to detect

- (A) Vitamin A (B) Vitamin D (C) Ascorbic acid (D) Vitamin E

4. The most potent Vitamin D metabolite is

- (A) 25-Hydroxycholecalciferol (B) 1,25-Dihydroxycholecalciferol
(C) 24, 25-Dihydroxycholecalciferol (D) 7-Dehydrocholesterol

5. Creatinuria is caused due to the deficiency of vitamin


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(A) A (B) K (C) E (D) D

6. Vitamin K is involved in posttranslational modification of the blood clotting factors by acting as cofactor for the enzyme:

(A) Carboxylase (B) Decarboxylase (C) Hydroxylase (D) Oxidase

7. Concentration of pyruvic acid and lactic acid in blood is increased due to deficiency of the vitamin

(A) Thiamin (B) Riboflavin (C) Niacin (D) Pantothenic acid

8. Vitamin B1 coenzyme (TPP) is involved in

(A) Oxidative decarboxylation (B) Hydroxylation

(C) Transamination (D) Carboxylation

9. Magenta tongue is found in the deficiency of the vitamin

(A) Riboflavin (B) Thiamin (C) Nicotinic acid (D) Pyridoxine

10. The pellagra preventive factor is


(A) Riboflavin (B) Pantothenic acid (C) Niacin (D) Pyridoxine

11. Niacin or nicotinic acid is a monocarboxylic acid derivative of

(A) Pyridine (B) Pyrimidine (C) Flavin (D) Adenine

12. Niacin is synthesized in the body from

(A) Tryptophan (B) Tyrosine (C) Glutamate (D) Aspartate


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13. Pellagra occurs in population dependent on
(A) Wheat (B) Rice (C) Maize (D) Milk
14. Pantothenic acid is a constituent of the coenzyme involved in
(A) Decarboxylation (B) Dehydrogenation
(C) Acetylation (D) Oxidation
15. The precursor of CoA is
(A) Riboflavin (B) Pyridoxamine (C) Thiamin (D) Pantothenate
16. 'Burning foot syndrome' has been ascribed to the deficiency of
(A) Pantothenic acid (B) Thiamin (C) Cobalamin (D) Pyridoxine
17. 'Xanthurenic acid index' is a reliable criterion for the deficiency of the vitamin
(A) Pyridoxal (B) Thiamin (C) Pantothenic acid (D) Cobalamin
18. Biotin is a coenzyme of the enzyme
(A) Carboxylase (B) Hydroxylase (C) Decarboxylase (D) Deaminase
19. Folate deficiency causes
(A) Microcytic anemia (B) Hemolytic anemia
(C) Iron deficiency anemia (D) Megaloblastic anemia
20. Niacin can be synthesised in human beings from
(A) Histidine (B) Phenylalanine (C) Tyrosine (D) Tryptophan



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21. Pantothenic acid contains an amino acid which is
(A) Aspartic acid (B) Glutamic acid
(C) β -Alanine (D) β -Aminoisobutyric acid
22. Coenzyme A contains a nitrogenous base which is
(A) Adenine (B) Guanine (C) Choline (D) Ethanolamine
23. Pyridoxal phosphate is a coenzyme for
(A) Glycogen synthetase (B) Phosphorylase
(C) Both (A) and (B) (D) None of these
24. Pyridoxine deficiency can be diagnosed by measuring urinary excretion of
(A) Pyruvic acid (B) Oxaloacetic acid (C) Xanthurenic acid (D) None of these
25. When eggs are cooked
(A) Biotin is destroyed but avidin remains unaffected
(B) Avidin is inactivated but biotin remains unaffected
(C) Both avidin and biotin are inactivated
(D) Both avidin and biotin remain unaffected
26. Chemically, lipoic acid is
(A) Saturated fatty acid (B) Unsaturated fatty acid
(C) Amino acid (D) Sulphur containing fatty acid
27. Deficiency of vitamin B12 can be diagnosed by


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(A) Carr-Price reaction (B) Ames assay

(C) Watson-Schwartz test (D) Schilling test

28. Anti-oxidant activity is present in

(A) β -Carotene (B) Retinol (C) Retinoic acid (D) All of these

29. Nyctalopia is

(A) Drying of eyes (B) Destruction of cornea

(C) Blindness (D) Inability to see in dimlight

30. Ascorbic acid can reduce

(A) 2, 4-dinitro benzene (B) 2, 6-Dichlorophenol Indophenol

(C) 2, 4-dibromobenzene (D) 2, 6-dibromo benzene

31. Sterilized milk is devoid of

(A) Vitamin A (B) Vitamin B1 (C) Vitamin C (D) Vitamin D

32. Antirachitic vitamin is

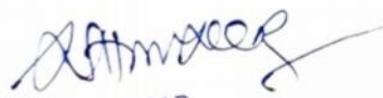
(A) Vitamin A (B) Vitamin D (C) Vitamin E (D) Vitamin K

33. Convulsive episodes occur when there is a severe deficiency of:

(A) Pyridoxine (B) Folic acid (C) Thiamine (D) Riboflavin

34. Which of the following vitamin is involved in coenzyme function in transaminations?

(A) Nicotinamide (B) Pyridoxine (C) Thiamine (D) Riboflavin


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35. During deficiency of thiamine the concentration of the following compound


risks in blood and intracellular fluid:

(A) Glycogen (B) Sugar (C) Amino acids (D) Pyruvic acid

36. Transketolase activity is affected in

(A) Bitoin deficiency (B) Pyridoxine deficiency

(C) PABA deficiency (D) Thiamine deficiency


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WINNER OF THE QUIZ PROGRAMME 2023-24

GROUP -B

NAME OF THE STUDENT GROUPS WHO PARTICIPATED IN QUIZ PROGRAMME

GROUP -A		GROUP -B	
Roll no	Name	Roll no.	Name
32522001	B.Prudhvi naik	32522016	P.Susranya
32522006	G.Vidya sagar	32522019	R.Vishnu vardhan
32522012	M.Sairam	32522017	P.Purushotham
32522007	G.Siva teja	32522002	C.Ramprasad
32522013	M.Sasidhar naik	32522009	G.Ganesh
32522021	Shaik Asif	32522008	G.Dileep kumar

GROUP -C	
ROLL NO	Name
32522004	D.Madhan
32522010	K.Ishaq Ali
32522024	V.Navya sree
32522025	Y.Varshitha
32522023	T.Ganesh



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Department of Zoology
S.G.S. Arts College
TIRUPATI-517 501

QUIZ PROGRAMME 2023-24

NAME OF THE STUDENT GROUPS WHO

ARE PARTICIPATED IN QUIZ PROGRAMME :

GROUP - A			GROUP - B		
Roll.No	Name	Signature	Roll.No	Name	Signature
32522001	B.Prudhvi Naik	B.Prudhvi	32522016	P. Susronya	P. Susronya
32522006	G.Vidya Sagar	G.Vidya Sagar	32522019	R.Vishnu Vardhan	R.Vishnu Vardhan Naik
32522012	M.Sairam	M.Sairam	32522017	P.Purushotham	P.Purushotham
32522007	G.Siva Teja	G.Siva Teja	32522002	C.Ram prasad	C.Ram prasad
32522013	M.Sasidhar Naik	M.Sasidhar Naik	32522009	G.Ganesh	G.Ganesh
32522021	Shaik Asif	Shaik Asif	32522008	G.Dileep kumar	G.Dileep kumar

GROUP - C			GROUP - D		
Roll No	Name	Signature	Roll.No	Name	Signature
32522004	D. Madhan	D.Madhan	31022001	C.Apurroopa	C.Apurroopa
32522010	K.Ishaq Ali	K.Ishaq Ali	31022002	D.Jyothi	D.Jyothi
32522024	V.Navya Sree	V.Navya Sree	31022008	P.Guna Sekhar	P.Guna Sekhar
32522025	Y.Varshitha	Y.Varshitha	31022009	P.Sivaji	P.Sivaji
32522023	T. Ganesh	T. Ganesh	31022011	S.Sujatha	S.Sujatha
			31022014	T. Venkatesh	T. Venkatesh

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