

SML GOVT.DEGREE COLLEGE, YEMMIGANUR

CERTIFICATE COURSE

ON

"Medical Lab Technician"

ORGANISED BY

DEPARTMENT OF ZOOLOGY

2018-2019

Syed Fakrunnisa Begum

Syed Fakrunnisa Begum
I/c DEPT.OF ZOOLOGY

Incharge
Dept. of Zoology
Sri Mahayogi Lakshamma
Govt. Degree College
Yemmiganur - 518 360,

Dr V V S Kumar

V. V. S. Kumar
Principal
PRINCIPAL
SML. Govt. Degree College
YEMMIGANUR, Kurnool (Dt.)





ESTD 1982

SML Government Degree College
Yemmiganur, Kurnool dist., Andhra Pradesh
Affiliated to Rayalaseema University, Kurnool-518360, A.P



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Date:01-06-2018

W.S. Kumar

Departmental meeting-02

The faculty members of the Zoology Department met in the principal chamber to discuss to conduct a certificate course in zoology. Titled "Medical Lab Technician" under chairmanship of the principal and faculty of the department on 01-06-2018

Agenda: Starting a certificate course for IIBZC Students

Resolutions:

1. It is resolved to start the certificate course titled Medical Lab Technician from 7/6/2018 to 13/8/2018(32 hours) for the academic year 2018-2019
2. It is also resolved to frame the syllabus, regulations for the successful completion of the certificate course titled Medical Lab Technician
3. Resolved to enroll 16 students to the course
4. Resolved to conduct classes in all working days from 9AM TO 10 AM
5. Resolved to conduct exam after the completion of course and issue certificate to qualified candidates qualifying marks 40%

Members present:

- 1 *Syed Farhan*
Incharge
- 2 Dept. of Zoology
Sri Mahayogi Lakshminina
Govt. Degree College
Yemmiganur - 518 360,

Date: 06/06/2018

TO

The Principal,

SML Govt Degree College,

Yemmiganur.

Sir,

Sub: Department of Zoology-to start a certificate course on "Medical Lab Technician" permission-request-regarding

V/S Kumar

.....#.....

I am pleased to inform you that a certificate course on "Medical Lab Technician" IIB.Sc BZC students of our college is planned in this semester of 2018-2019 academic year by the department of Zoology .It will be conducted by the zoology department.

In this connection, I request you to kindly accord us permission to start the certificate course course for the benefit of the students as well as the society.

Yours faith fully
Syeda Farah Bano,
Syed Fakrunnisa
Incharge
Dept. of Zoology
Sri Mahayogi Lakshamma
Govt. Degree College
Yemmiganur - 518 350,

5

6-06-2018

SML GOVERNMENT DEGREE COLLEGE, YEMMIGANUR

DEPARTMENT OF ZOOLOGY

CIRCULAR

All II year students are hereby informed that the Department of Zoology will start a certificate course on Medical Lab Technician From 07-06-2018 Those who are interested to join the course they have to enroll their names in the Department of Zoology and certificate will be given after completion of the course.

Name of the course: Medical Lab Technician

Duration of the course: 30 Hours

Commencement of the course: 07-06-2018

Time schedule of the classes: 9AM to 10AM

Syeda Farooq Buzay
INCHARGE OF THE DEPARTMENT
Dept. of Zoology
Sri Mahayogi Lakshman
Govt. Degree College
Yemmiganur - 518 360,

SIGNATURE OF THE PRINCIPAL
[Signature]
PRINCIPAL
SML Govt. Degree College
YEMMIGANUR, KARNOL (D)

(6)

SML GOVT. DEGREE COLLEGE, YEMMIGANUR.

DEPT. OF ZOOLOGY (2018-2019)

WILLINGNESS OF THE STUDENTS FOR THE CERTIFICATE COURSE

"MEDICAL LAB TECHNICIAN"

SNO	Regd Number	Name of the Student	Group & Class	Signature
1	173049001	G.Kondaiah	II BZC	G. kondaiah.
2	173049002	K.Upendra	II BZC	K. upendra
3	173049003	B.Gowramma	II BZC	B. Gowramma
4	173049004	G.Chandra krishna	II BZC	G. chandra krishna
5	173049005	G.Chandra Babu Naidu	II BZC	G. Chandra Babu Naidu
6	173049006	G.Krishna Murthy	II BZC	G. Krishna Murthy
7	173049007	K.Veeresh	II BZC	K. Veeresh
8	173049008	K.Kondanna	II BZC	K. kondanna
9	173049009	M.Durgappa	II BZC	M. Durgappa
10	173049010	M.Bande Nawaz	II BZC	M. BANDE NAWAZ.
11	173049011	M.Nabi Sahib	II BZC	M. Nabi Sahib
12	173049012	R.Tulasi	II BZC	R. Tulasi
13	173049013	S.Basha	II BZC	S. Basha.
14	173049014	S.Shaiksha Vali	II BZC	S. shaiksha vali
15	173049015	Y. Sathyanna	II BZC	Y. Sathyanna
16	173049046	M.Swarna Latha	II BZC	M. Swarna Latha

Syeda Lakshamma Byy
Incharge
Dept. of Zoology
Sri Mahayogi Lakshamma
Govt. Degree College
Yemmiganur - 518 360,

V. V. S. Kumar
PRINCIPAL
SML Govt. Degree College
YEMMIGANUR, Kurnool (Dt.)

Certificate course –Medical Lab Technician

Brief report:

The department of zoology SML Govt, Degree College organized a certificate course in “**Medical Lab Technician**” for B.Sc students during the academic year 2018-2019 for a period of 32 days i.e. 07-06-2018 to 13-08-2018.

In this connection **Dr VVS Kumar**, principal of the college presided over the inaugural and expressed that it was very useful course for everyone in daily life. He also appreciated the faculty of zoology department for organizing the valuable certificate course. He advised the students to utilize it in a proper manner.

During the above period a few faculty members of college took part in the course actively and express their views and suggestions for betterment of the programme. The faculty members involved in the programme are

1. Syed Fakrunnisa Begum Lec.in Zoology

After completion of the course an assessment test conducted for participation both in theory and practicals.

Performance of the participants was well and good.

SYLLUBUS

As previously stated, the MLT course syllabus and curriculum , Furthermore, the MLT course material is developed in such a way that students may quickly appreciate the significance of their responsibilities in supporting others in obtaining credible assistance. Furthermore, students can gain a deeper understanding of the disciplines through theory, training, workshops, and volunteerism. As one's proficiency grows, it allows one to realise a few key variables. The MLT course syllabus may differ from one university to the next, but the basic disciplines stay the same. For those interested, below is a summary of the BSc MLT syllabus:

First-Year MLT Syllabus

~~Semester I~~

Human Anatomy-I

Human Physiology-I

Biochemistry-I

Health Education and Health Communication

PC Software Lab

Practical: Human Anatomy-I

Practical: Human Physiology-I

Practical: Biochemistry-I

~~Semester-I~~

Clinical Haematology-I

Microbiology-I

Immunology and Serology-I

Histopathology and Histotechniques-I

Sem-I

Practical: Clinical Haematology-I

Practical: Microbiology, Immunology and Serology-I

Sem-I

Practical: Histopathology and Histotechniques-I

Sem-I

Sem-I

Sem-I

Sem-I

Sem-I

NERVOUS SYSTEM

Learning objectives:

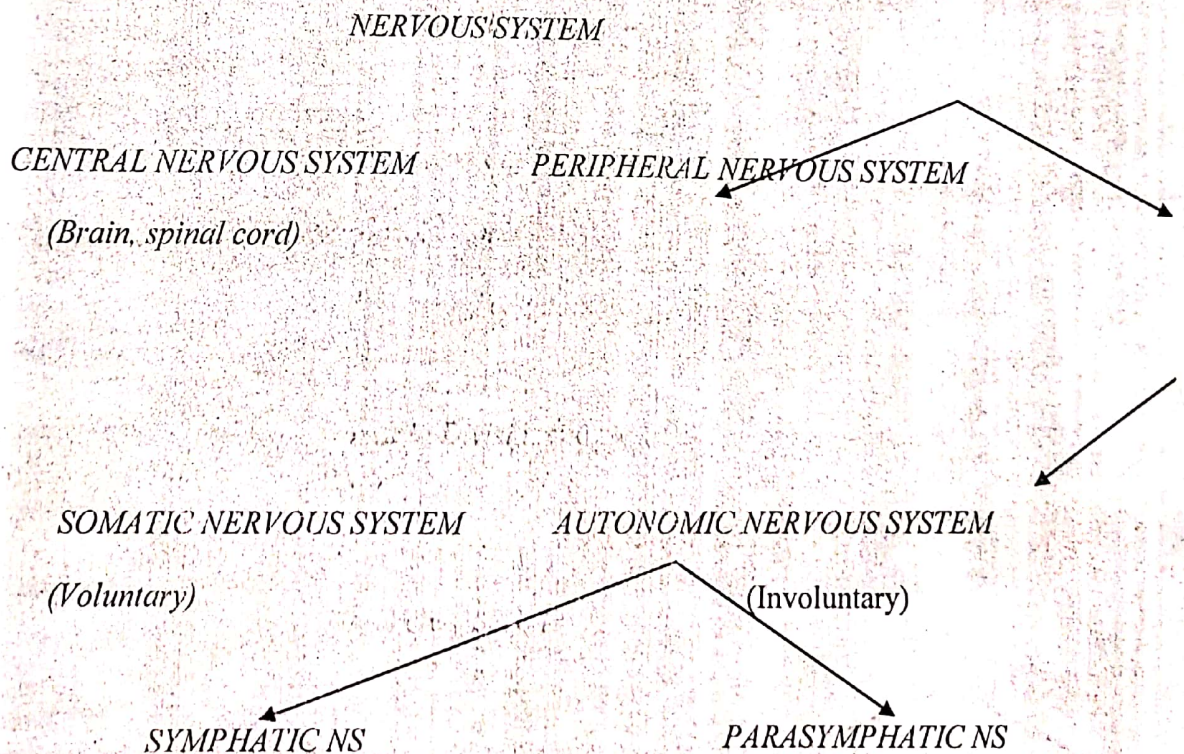
- Nervous system
- Central nervous system
- Peripheral nervous system
- Sensory organs
- Questions

1. NERVOUS SYSTEM

Gathers information from both inside and outside the body –

1. Sensory Function
2. Transmits information to the processing areas of the brain and spine
3. Processes the information in the brain and spine – Integration Function
4. Sends information to the muscles, glands, and organs so they can respond appropriately – Motor Function

The Nervous System is divided into Two Main Divisions: Central Nervous System (CNS) and the Peripheral Nervous System (PNS).



2. CENTRAL NERVOUS SYSTEM

2.1 Basic Cells of the Nervous System Neuron

- Basic functional cell of nervous system
- Transmits impulses (up to 250 mph) Parts of a Neuron
- Dendrite – receive stimulus and carries it impulses toward the cell body
- Cell Body with nucleus – nucleus & most of cytoplasm
- Axon – fibre which carries impulses away from cell body
- Schwann Cells- cells which produce myelin or fat layer in the Peripheral Nervous System
- Myelin sheath – dense lipid layer which insulates the axon – makes the axon look gray
- Node of Ranvier – gaps or nodes in the myelin sheath
- Impulses travel from dendrite to cell body to axon Three types of Neurons o Sensory neurons – bring messages to CNS o Motor neurons - carry messages from CNS o Interneuron's – between sensory & motor neurons in the CNS.

2.2 Impulses

- A stimulus is a change in the environment with sufficient strength to initiate a response.
- Excitability is the ability of a neuron to respond to the stimulus and convert it into a nerve impulse
- All of Nothing Rule – The stimulus is either strong enough to start and impulse or nothing happens
- Impulses are always the same strength along a given neuron and they are self-propagation – once it starts it continues to the end of the neuron in only one direction- from dendrite to cell body to axon
- The nerve impulse causes a movement of ions across the cell membrane of the nerve cell.

2.3 Synapse

Synapse is a small gap or space between the axon of one neuron. It is junction between neurons which uses neurotransmitters to start the impulse in the second neuron or an effectors (muscle or gland). The synapse insures one-way transmission of impulses.

SML GOVT DEGREE COLLEGE YEMMIGANUR

DEPT. OF ZOOLOGY

Certificate course " MEDICAL LAB TECHNICIAN "

ATTENDANCE REGISTER

SN	NAME OF THE STUDENT	GROUP & Class	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32				
1	G.KONDALAH	IIBZC	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
2	K.LUPENDHRA	IIBZC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
3	B.GOWRAMMA	IIBZC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4	G.CHINNA EERANNA	IIBZC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
5	G.CHANDHRA BASU NAIDU	IIBZC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
6	G.KRISHNA MURTHI	IIBZC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
7	K. VEERESH	IIBZC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
8	M.KONDANNA	IIBZC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
9	M.DURGAPPA	IIBZC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
10	M. BANDE NAWAZ	IIBZC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
11	N. NABI SAHIB	IIBZC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
12	R. THULASI	IIBZC	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
13	S. BASHA	IIBZC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14	S.SHAJ SHAVALI	IIBZC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15	Y.SATHYANNA	IIBZC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16	M.SWARNA LATHA	IIBZC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
			P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
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Syde-father Beeg
Incharge

Dept. of Zoology
Sri Mahayogi Lakshamma
Govt. Degree College
No. 518 360,

V.V.S. Kumar
PRINCIPAL
SML Govt. Degree College

(B)

Department of Zoology

Second year

Certificate course exam-Medical lab Technician

Time;3hours

Max marks :50

PART -A

Answer ALL questions

3*10=30

1. Draw the well labeled diagram of brain.
2. Explain the structure and function of eye
3. Explain the structure and function of ear.

PART-B

Answer any FOUR questions

4*5=20

- 1.What is the basic unit of nervous system?
2. Define neurotransmitters?
- 3.Name the shortest bone of the body.
- 4.Which part of brain maintains equilibrium and posture of the body?
- 5.Define synapse?

SML GOVT DEGREE COLLEGE YEMMIGANUR

DEPT OF ZOOLOGY

CERTIFICATE COURSE "Medical Lab Technician"

MARKS AWARD LIST:

S.NO	HT NO	NAME	THEORY MARKS 50	GRADE	PIACTICAL S MARKS 50	GRADE	TOTAL
1	173049001	G KONDAIAH	45	A	50	0	95
2	173049002	K.UPENDRA	43	A	50	0	93
3	173049003	B.GOWRAMMA	45	A	45	A	90
4	173049004	G.CHNDRA KRISHNA	44	D	50	0	94
5	173049005	G.CHANDRA BABU NAIDU	47	A ⁺	45	A	92
6	173049006	G.KRISHNA MURTHY	43	A	50	0	93
7	173049007	K.VEERESH	45	A	50	0	95
8	173049008	K.KONDANNA	47	A ⁺	50	0	97
9	173049009	M.DURGAPPA	45	A	47	A ⁺	92
10	173049010	M. BANDE NAWAZ	43	A	50	0	93
11	173049011	M.NABISAHEB	43	A	50	0	93
12	173049012	R THULASI	45	A	45	A	90
13	173049013	S.BHASHA	48	A ⁺	50	0	98
14	173049014	S.SHAIK SHAVALI	47	A ⁺	50	0	97
15	173049015	Y.SATYANNA	45	A	48	A ⁺	93
16	173049046	M.SWARNA LATHA	42	A	50	0	92

OBSERVATION OF ANATOMY SLIDES IN MICROSCOPE



FEEDBACK FROM THE STUDENTS

Name Of The Student: K. Kondanna

Course&Group	B.SC BZC - II YEAR		
Regd.Number	173049008		
Opinion	Excellent ✓	Good	Satisfactory

K. Kondanna
Signature Of the Student

Name Of The Student: R. Thulasi

Course&Group	B.SC BZC - II YEAR		
Regd.Number	173049012		
Opinion	Excellent ✓	Good	Satisfactory

R. Thulasi
Signature Of the Student

Name Of The Student: Y. Satyanarayana

Course&Group	B.SC BZC - II YEAR		
Regd.Number	173049015		
Opinion	Excellent ✓	Good	Satisfactory

Y. Satyanarayana
Signature of the Student

FEEDBACK FROM THE STUDENTS

Name Of The Student: G. Kondiah

Course&Group	B.SC BZC -II YEAR		
Regd.Number	173049001		
Opinion	Excellent ✓	Good	Satisfactory

G. Kondiah
Signature Of the Student

Name Of The Student: B. Gowamma

Course&Group	B.SC BZC -II YEAR		
Regd.Number	173049003		
Opinion	Excellent ✓	Good	Satisfactory

B. Gowamma
Signature Of the Student

Name Of The Student: K. Veeresh

Course&Group	B.SC BZC -II YEAR		
Regd.Number	173049007		
Opinion	Excellent	Good ✓	Satisfactory

K. Veeresh
Signature of the Student



SML GOVERNMENT DEGREE COLLEGE

(Affiliated to Rayalaseema University, Kurnool)

Yemmiganur, Kurnool Dist

ESTD. 1982

Accredited by NAAC: B Grade



CERTIFICATE COURSE IN MEDICAL LAB TECHNICIAN

This is to certify that Mr/Ms G. Kondaliah of IBZC Regd.
No. 173049001 has Successfully completed the Certificate Course in Health and
Hygiene Organized by the Department Of Zoology during the Academic year 2018-2019 from
7/06/2018 TO 13/08/2018

Syed Fakrunnisa Begum

Syed Fakrunnisa Begum
Dept of Zoology

Incharge
Dept. of Zoology
Sri Mahayogi Lakshammamma
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