LAXMI VENKATESH DESAI COLLEGE, RAICHUR-584103.

Re-Accredited by NAAC with B Grade

DEPARTMENT OF MICROBIOLOGY

Career Oriented Programming (COP)

Course: Medical Lab Technology

Documents

Academic Year: 2020-2021

1000)

Taranath Shikshana Samsthe

LAXMI VENKTESH DESAI COLLEGE, RAICHUR

List of the C.O.P. (DMLT) Students List for 2020-21

SI No	" Roa No	pathology & Hematology Name of Students	D.P. (DMLT) Students List for 2020-21	10-1 pm
1	9187159914	REDECATA	Tather Name	Sign
2	1203909	GOVINDA	MOHAMMED ABDUL KAREE ANJANAYYA	M
3	1203861 11	YAMANURAPPA	SHIVAPPA	
4	1203951 /3	KAMALAPPA	CHANNAPPA	5.48.
5	SR-X2190-5506	B GOURAV KUMAR		Famaly.
6	10717	SUCHETA A	AMARAPPA	A Do
7	1871756	ANUSHA		A. M
8	1871617	GIRIJA Y	MURALIDHAR ACHARYA P	
9	107165	CI-I A V A D D I	YANKAPPA	Egingt.
10	<u>=</u>	DLIATIA	RAJENDRA KUMAR	Regul S
1	1.00		SANGAMESHWAR SWAMY	Bhavouri. A
			MOHAMMED RAFI	Hims
2	1871733 57	SWATI NANDAWADA	DURUGAPPA	
3	2068847	PADMAVATHI	THAYAPPA	Padmavalhi
	1871671 3 S	AVITHA	SOMAPPA	
	18717.24 S	UMALATHA	RAMAPPA	Hamilhas

me 10-1pm.

LAXMI VENKTESH DESAI COLLEGE, RAICHUR

List of the C.O.P. (DMLT) Students for 2020-21

	List of the C.O.P. (DMLT) Students for 2020-21			
SI.	Reg. No.	Name of Students	Father Name	
1	1203909	GOVINDA	ANJANAYYA	
2	1203861	YAMANURAPPA	SHIVAPPA	
3	1203951	KAMALAPPA	CHANNAPPA	
4	20160239198	B GOURAV KUMAR	B NAGAPPA	
5	1871582	SUCHETA A	AMARAPPA	
6	1871756	ANUSHA	MURALIDHAR ACHARYA P	
7	1871617	GIRIJA Y	YANKAPPA	
8	1871656	CHAYA R N	RAJENDRA KUMAR	
9	1871588	BHAVANI A	SANGAMESHWAR SWAMY	
10	1871767	BIBI FATIMA	MOHAMMED RAFI	
11	1871733	SWATI NANDAWADAGI	DURUGAPPA	
12	2068847	PADMAVATHI	THAYAPPA	
13	1871671	SAVITHA	SOMAPPA	
14	1871724	SUMALATHA	RAMAPPA	

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APPLIED PAPER-I

ANATOMY, HISTOPATHOLOGY AND HAEMATOLOGY (75 Hrs.)

UNIT: 1 ANATOMY AND PHYSIOLOGY:

- 1. Organisation of human body and skeletal identification 5 Hrs
- 2. Circulatory system:- Blood cells, normal counts and functions. Haemoglobin, blood clotting, anticoagulants, ESR of blood, Plasma protein. Blood groups, Blood transfusion and Anaemias.- 10 Hrs.
- 3. Cardio Vascular System: Functional Anatomy of heart. Systemic and pulmonary circulation, Cardiac output, B.P, E.C.G. and Pulse.- 8 Hrs.
- 4. Respiratory System: Functions, External and Internal Respiratory mechanism, Transport of O₂ and CO₂, Artificial Respiration and Hypoxia- 8 Hrs.
- 5. Excretory System: Functions of Kidney, Glomerules and Tubules. Composition of Urine normal and abnormal-8 Hrs.
- 6. Digestive System: Liver function test. Function of saliva. Gastric juice. Pancreatic juice-5Hrs.
- 7. Reproductive System: Functions of male and female reproductive system. Pregnancy test. Family planning method-8Hrs.

UNIT-2: HISTOPATHOLOGY:

8. Fixation of tissues, Preparation of histopathological fixatives, Tissue processing.

Decalcification, Buccal smear, Staining with haemotoxylin and Eosin-12 Hrs.

UNIT-3: HAEMATOLOGY:

- 9. Composition of Blood- 3 I-lrs.
- 10. Preparation of various stains, buffers used in haematology- 5 Hrs.
- 11. Collection of Blood samples, RBC, WBC counting- 3 Hrs.
 - 12. Haemoglobin estimation, RBC indices, ESR- 3 Hrs.
 - 13. Normal and abnormal Erythrocyte and Leucocytes- 5 Hrs.

APPLIED PAPER II /5 HRS

MICROBIOLOGY, BIOCHEMISTRY AND CLINICAL PAIN

UNIT-1: MICROBIOLOGY:

- 1. Relationship of microbes to man, Pathogenic and non-pathogenic aspects-3.
- 2. Instrumentation, Incubator, Autoclave, Hot air oven, Anaerobic jar, Laminar and flow, Centrifuge, Inspisator, Vacuum pumps- 10 Hrs.
- 3. Micrscope, working principles and uses-3 Hrs.
- 4. Sterilization and disinfection- 4 Hrs.
- 5. Morphology, Life cycle, Pathogenecity of Mycobacterium tuberculosis, Vibrio Cholera, Salmonella, Plasomodium vivax, Entamoeba histolytica, Leishmania, Tapeworm, AIDS and Hepatits-12 Hrs.

UNIT-2: BIOCHEMISTRY:

- 6. Principles, Uses of Spectrophotometer, Ultracentrifuge, Chromatography. Electrophoresis, Haemoglobinmeter- 8 Hrs.
- 7. Determination of Serum bilirubin, Na+, K+ 4 Hrs.
- 8. G.T.T., Kidney function test- 4 Hrs.
 - 9. Diagnostic test of body fluids
 - a. Estimation of sugars, proteins and chlorides- 6 Hrs.

UNIT-3: CLINICAL PATHOLOGY:

- 10. Urine analysis 3 Hrs.
- 11. Sputum collection and examination- 3 Hrs.
- 12: Stool, Identification of parasites 3 Hrs.
- 13. Semen, Identification of sperms their morphology 4 Hrs.
- 14.CSF, Constituents, Identification 6 Hrs.

PRACTICAL -111 -75 Hrs

- 1. Microscope, uses and maintenance.
- 2. Identification of Blood cells.
- 3. Haemoglobin estimation and preparation of blood smears.
- 4. Demonstration of B.P. recording and pulse.
- 5. Demonstration of normal and abnormal constituents of urine.
- 6. Estimation of coagulation parameters.
- 7. RBC counting.
 - 8. Absolute value MCV, MCHC, MCH deduction.
 - 9. Diagnostic test, Blood serum and plasma.
 - 10. Determination of serum blood, blood urea, uric acid, serum creatinine.
 - 11. Sputum: AFB
 - 12. Serum lipids: Serum cholesterol, triglyceride.
 - 13. Estimation of ESR.
 - 14.Rh typing.
 - 15. Coomb's test.
 - 16. Staining: ZN staining, Albert. Leishman, Geimsa staining.
 - 17. Slide agglutatination test.
 - 18. Serology: WIDAL, VDRL, ELISHA, AIDS, RA test, and CRP test.
 - 19. Collection, preservation and preparation of staines.
 - 20. Uses and maintenance of automation and kits.
 - 21. Morphological, cultural characters, biochemical reaction of common organisms.

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REFERENCE BOOKS

- 1. Medical Microbiology by Maekie & Mecartney
- 2. A manual of Lab. Diagnostic tests by Frandces Fischback.
- 3. Physiological chemistry by Harper.
- 4. Medical laboratory Technology by Kanai, L. Mukherjee Vol 1,2,3
- 5. Medical Lab Techniques for routine diagnostic test by Sales manager publication.

 Dept. of NCERT, New Delhi.
- 6. Practical Haematology by Dacie and Lewis, Churchill livingstone.
- 7. Cellular pathology techniques by Culling, Allison and Barf.
- 8. Medical Lab Techniques by Prafulgodhkar.
- 9. Medical Lab Techniques by Ramnik Soodh.
- 10. Anatomand Physiology by Ed. John Raynor, Harper and Row.
- 11. Clinical Diagnosis and management by Lab. Methods by Todd. Sanford.

 Davidsohn, John Bernard Henry.
- 12. Textbook of Microbiology by Ananthnarayan.

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LAXMI VENKATESH DESAI COLLEGE, RAICHUR

DEPARTMENT OF MICROBIOLOGY

CAREER ORIENTED COURSE IN MEDICAL LABORATORY TECHNOLOGY (2020-2021)

Applied Paper – I (Theory)

Anatomy, Physiology, Histopathology and Haematology

Marks: 80 Time: 3 Hours Date: 02-11-2021 SECTION - A 2x10 = 20Q I. Answer any ten of the following 1) What are the parts respiratory systems? 2) Name three common diseases of circulatory system. What is the main excretory products of human? Define pregnancy test. 5) Define Decalcification. 6) Define Histopathology. 7) What is ESR. 8) Define RBC indices. 9) Define Blood Pressure. 10) What is test in complete blood count? 11) What is pancreatic juice? 12) What are main organs of skeletal system? 13) Define composition of human body. 14) Define circulatory system. SECTION - B 5x4 = 20Q II. Answer any four of the following 15) Haemoglobin estimation. 16) Electrocardiogram (ECG). 17) Write about fixatives. 18) Family planning method. 19) Factors effecting blood pressure. 20) Abnormal constituents of urine. SECTION - C 10x4=40Q III. Answer any four of the following 21) Blood groups and transfusion. 22) Describe about the functions of WBC. 23) Explain in detail about digestive system. 24) Functions of the heart.

25) Explain the function of respiratory system.

26) Explain the processing of tissue specimen.

LAXMI VENKATESH DESAI COLLEGE, RAICHUR DEPARTMENT OF MICROBIOLOGY

CAREER ORIENTED COURSE IN MEDICAL LABORATORY TECHNOLOGY (2020-21)

Applied Paper – II (Theory) Microbiology, Biochemistry and Clinical Pathology

Micro	biology, Biochemistry and Clinic	al Pathology
Date: 03-11-2021	Time: 3 Hours	Marks: 80
Date . 05 11 2021	SECTION - A	
Q I. Answer any ten of		10x2=20
1) What is virulence		
2) Define CSF.		
3) Sperm morphology	у.	
4) What is kala azar.		
5) What are the body	fluids.	
6) TORCH.		
7) Uses of incubator		
8) Numerical aperati		
9) What is serum bil		
10) Use of centrifuge.		
11) What is pathogen		
12) Define sterilizatio	n.	
13) Name the optical/	mechanical parts of microscope.	
14) Use of laminar air	rflow.	
	SECTION – B	5x4 = 20
Q II. Answer any four o	f the following	
15) Hees of chromatos	graphy.	
16) Modes of transmis	ssion AIDS.	
17) Estimation of prot	eins.	
18) Enidemology of cl	holera.	
19) Estimation of chol	lesteroi.	
20) Malaria infection.		
	SECTION – C	10x4 = 40
Q IV. Answer any four o	of the following	
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and Detimation of the S	singars in the mumar of the	
22) Evolain the nath09	genesis of 1D miles	
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1 · 11 hazzata	al method of storing and all	
26) Explain the working	ng principle of chromatography.	

LAXMI VENKATESH DESAI COLLEGE, RAICHUR DEPARTMENT OF MICROBIOLOGY

CAREER ORIENTED COURSE IN MEDICAL LABORATORY TECHNOLOGY

(2020-2021)

Applied Paper – I (Practical)
Anatomy, Physiology, Histopathology and Haematology

Date: 04-11-2021	Time: 3 Hours	Marks: 40
Q 1. Detection of Blood gro	uping and Rh factors.	10M
Q 2. Preparation of blood sn	near slide and count for DC/TC of RBC /WBC.	10M
Q 3. Detection of Normal/A	bnormal constituents of given sample.	10M
Q 4. Checking the BP levels		05M
Q 5. Certified Record Book.		05M

Taranath Shikshana Sasmthe

LAXMI VENKATESH DESAI COLLEGE, RAICHUR DEPARTMENT OF MICROBIOLOGY

CAREER ORIENTED COURSE IN MEDICAL LABORATORY TECHNOLOGY

(2020-2021)

Applied Paper – I (Practical)

Anatomy, Physiology, Histopathology and Haematology

Date: 04-11-2021 : Time: 3 Hours	Marks: 40
Q 1. Detection of Blood grouping and Rh factors.	10M
Q 2. Preparation of blood smear slide and count for DC/TC of RBC /WBC	C. 10M
Q 3. Detection of Normal/Abnormal constituents of given sample.	10M
Q 4. Checking the BP levels.	05M
Q 5. Certified Record Book.	05M

LAXMI VENKATESH DESAI COLLEGE, RAICHUR DEPARTMENT OF MICROBIOLOGY

CAREER ORIENTED COURSE IN MEDICAL LABORATORY TECHNOLOGY

(2020-2021)

Applied Paper – II (Practical) Microbiology, Biochemistry and Clinical Pathology

Date: 04-11-2021 Time: 3 Hours	Marks: 40
Q 1. Serological test WIDAL/VDRL test	10M
Q 2. Identify the organism by Gram's staining technique.	10M
Q 3.Stain the smear provided by ZN staining	10M
Q 4. Check the sugar levels using glucometer.	05M
Q 5. Certified Record Book.	05M

Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE, RAICHUR DEPARTMENT OF MICROBIOLOGY

CAREER ORIENTED COURSE IN MEDICAL LABORATORY TECHNOLOGY

(2020-2021)

Applied Paper – II (Practical) Microbiology, Biochemistry and Clinical Pathology

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Q 3.Stain the smear provi	ided by ZN staining	10M
Q 4. Check the sugar leve	els using glucometer.	05M
Q 5. Certified Record Bo	ok.	05M

LAXMI VENKATESH DESAI COLLEGE, RAICHUR-584103.

(Affiliated to Gulbarga University, Kalaburagi. Re-Accredited by NAAC with "B" Grade)

Office of the Principal Ph:(08532)-240286, 240707 Fax:+918532 240707

e-mail: lvdrcr@gmail.com

Website: lvdcollege.com

Venkatesh B. Devaru, M.Sc., Ph.D., MBA. RINCIPAL

Ref: LVDCR/COP/NP/2021-22/

Date: 01-12-2021.

To, The Registrar (Evaluation), Gulbarga University, KALABURAGI.

Dear Sir,

We have conducted UGC Sponsored Career Orientation Programme in "Medical Laboratory Technology" successfully, during the academic year 2020-21. The Marks Cards and Certificates of successful candidates are prepared and submitted to you for certification.

Further, we are enclosing online receipt for Rs. 1300/- towards certification of Marks cards.

Number of students = 13

= 1300/-Total Amount

Kindly affix your signature on the marks cards and also on the certificates.

Thanking you,

Yours faithfully

Enclosures:

- Student list.
- 2) Marks Cards -13.
- 3) Certificates 13.

Registrar (Evaluation).

Registrar (Evaluation).

Gulbarga University

Gulbarga University

Kalaburagi-585 106.

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XMI VENKATESH MEDICAL LABORATORY TECHNOLOGY 2020-21 CAREER ORIENTED PROGRAMME DESAI COLLEGE, RAICHUR

PAPER I: ANATOMY, PHYSIOLOGY, HISTOPATHOLOGY & HAEMATOLOGY

PAPER II:MICROBIOLOGY, BIOCHEMISTRY & CLINICAL PATHOLOGY

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3. Gourav Kumar	Kamalappa	Govind	Yamanurappa	Padmavathi	Bibi Fatima	Anusha			Sumalatha	Savitha	Chaya K.IV.	ا ت	Girija Y.	bhavani A.		Sucheta A.			Name of the Students	
B. Nagappa	Channappa	Anjanayya	Shivappa	Thayappa	Mohammed Rafi	Muralidhar Acharya P.	Durugappa	Namappa	Daniel	Somappa	Rajendra Kumar		Yankappa	Sangameshwara Swamy	nd days	Amaranna		-	Father's Name	
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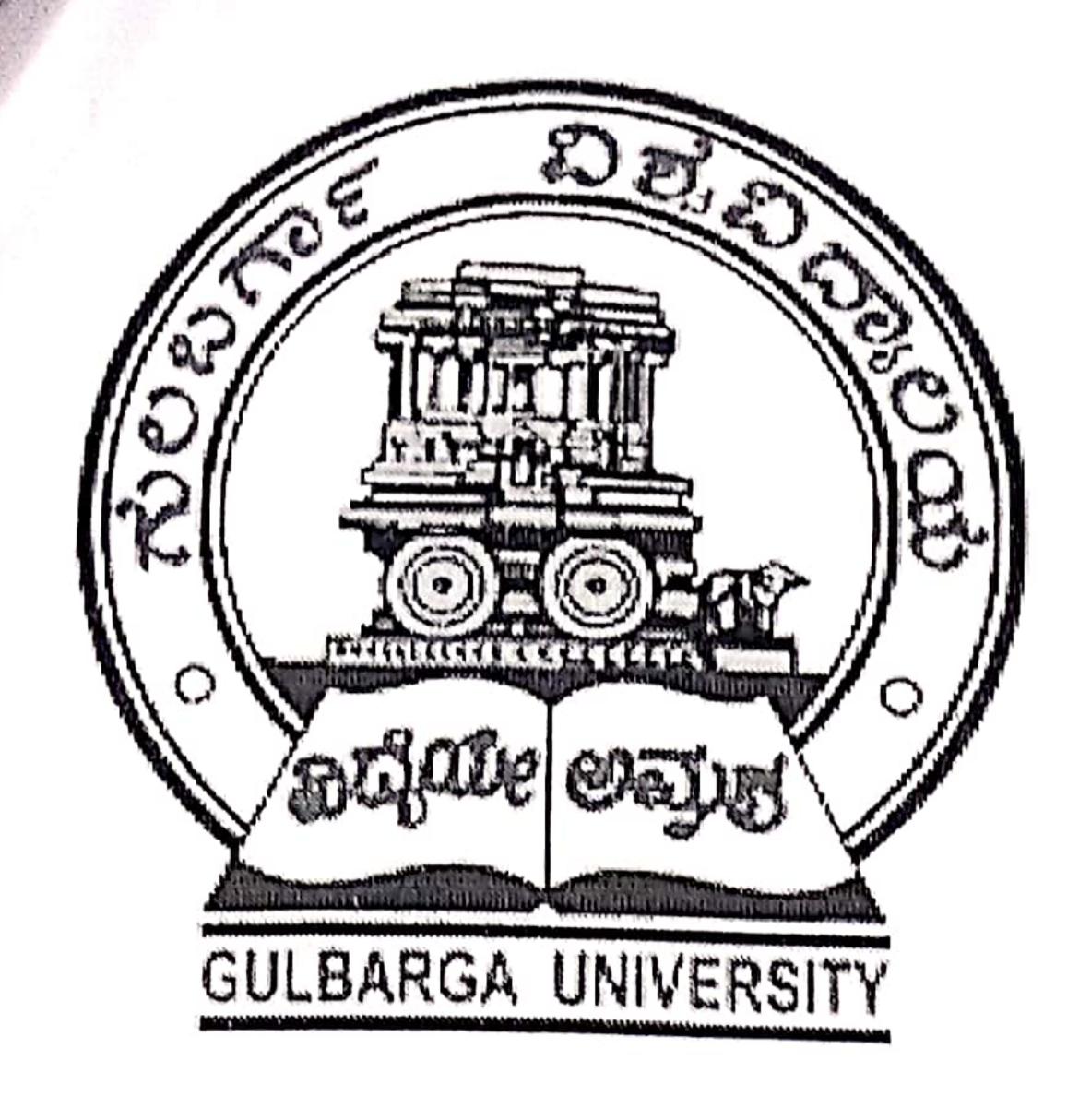
of students Present: 13

of students Absent: 01

of Students: 14

ВΥ





GULBARGA UNIVERSITY

FINANCE BRANCH, , KALABURAGI-585106

Date: 30-Nov-2021

e-Receipt for State Bank Collect Payment

SBCollect Reference Number

DUI1563474

Category

Colleges-Examination Fund

Name of College

Principal LVD College

College Code

D 406

Address

LVD College Raichur

Purpose of payment

Marks Card fee

University Notification No.

101

University Notification date

12/10/2021

Amount

1300

Transaction charge

17.70

Total Amount (In Figures)

1,317.70

Total Amount (In Words)

Rupees One Thousand Three Hundred Seventeen and Paise Seventy Only

Remarks

COP Marks Card Fee 13 X 100

Notification 1

Colleges are advised to go through notification for details.

Notification 2

L.V.D. College, RAICHUR-US.

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Statement Showing the number of marks obtained in ecch of passing at the Career Oriented Programme (C.O.P). ONE YEAR CERTIFICATE Course in MEDICAL LAB TECHNOLOGY

Examination held in NOVEMBER 2021

Shri / Smt. PADMAVATHI S/o. D/o. THAYAPPA

No. 275

HEADS OF PASSING

SUBJEC	Max.	Min.		MARKS OBTAINED			
PAPER I		Marks	Marks	In Figures	in words	REMARKS	
ANATOMY HISTOPATHOLOGY HAEMATOLOGY I.A		20		SIATT SEVEN ONLY		PASS	
PAPER II MICROBIOLGOY BIOCHEMISTRY CLINICAL PATHOLOGY THEOR		20	28 07	67 SIXTY SEVEN ONLY 18 EIGHTEEN ONLY		PASS	
TOTAL		200	70	170	ONE SEVENTY ONLY		
PRACTICAL-I	PRACTICAL	40	14	38	THIRTY EIGHT ONLY	PASS	
	PRACTICAL	70	14	35	TEN ONLY		
RACTICAL-II	LA.	10	04	09	THIRTY FIVE ONLY NINE ONLY	PASS	
TOTAL		100	36	92	NINETY TWO ONLY		
GRAND TO	300	106	262				

TWO SIXTY TWO

FIRST CLASS

Result of the Examination,

Signature of Tabujators

Prepared by

Checked by

'X' Indicates Exemptions earned in pervious attempts

Princip College Seal "Graced under the ordinance ...

Received Rs. 25/- for statement of Marks. 08/11/2021

GULBARGA - DATE :

(Evaluation)





Re-Accredited with 'A' Grade by NAAC

CAREER ORIENTATION PROGRAMME

Certificate

Certified that S	Shri / Kum	Padmavathi	
S/o./D/o	Thayappa		studying
-	B.Sc.	Course, has successfully completed UG	Csponsored
Certificate cours	se in 'MEDICAL	LABORATORY TECHNOLOGY' from this co	llege, during
the academic y	ear	20-21	9,
Co-ord	laun inator—	Property	?

LVD College

Registrar Evaluation Gulbarga University, Kalaburgi

