



ರಾಜೀವ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕರ್ನಾಟಕ, ಬೆಂಗಳೂರು
Rajiv Gandhi University of Health Sciences, Karnataka, Bangalore

4th T Block, Jayanagar, Bangalore – 560 041

AUTH/AMEND/B.ScMLT/019/2015-16

12/08/2015

NOTIFICATION

- Sub: Amendment to ordinance pertaining to **Allied Health Sciences – B.Sc. Medical Lab Technology**
- Ref:1) Recommendations of Board of Studies in Allied Health Sciences, through its meeting dated 06.05.2015.
- 2) Approval of Academic Council through its meeting dated 28.05.2015
 - 3) Approval of Syndicate in its 113th Meeting held on 26.06.2015
 - 4) RGUHS Notification No. AUTH/AHS/317/2008-09, dated:01/08/2008
 - 5) University Notification no. AUTH/AHS-317/2008-09 dated 16/08/2011

In exercise of the powers conferred by Section 35(2) of RGUHS Act 1994, the Syndicate in its 113th meeting held on 26/06/2015, is pleased to notify the amendment to ordinance pertaining to **Allied Health Sciences – B.Sc. Medical Lab Technology** as shown in Annexure appended herewith.

The Ordinance shall come into force from the academic year 2015-16.

By Order,


(Dr.S.Sacchidanand)
REGISTRAR

To:
The Principals of colleges affiliated to RGUHS conducting
B.Sc. Medical Lab Technology course.

Copy to:

1. The Principal Secretary to Governor, Governor's Secretariat, Raj Bhavan, Bangalore – 560 001.
2. Principal Secretary to Government, Health & Family Welfare Department, (Medical Education), Vikasa Soudha, Bangalore –560 001.
3. The Director, Department of Medical Education, Anand Rao Circle, Bangalore – 560 009.
4. PA to Vice-Chancellor / Registrar / Registrar (Eva.) / Finance Officer.
5. Director, Curriculum Development Cell.
6. The System Analyst, RGUHS to host it on RGUHS Website.
7. Guard File / Office Copy.

Amendments in the syllabus for Allied Health Sciences- Medical Laboratory Technology

B.Sc MLT

Sl. NO.	Original	Amendments
1	<p>9. Schedule of Examination:</p> <p>The university shall conduct two examinations annually at an interval of not less than 4 to 6 months as notified by the university from time to time. A candidate who satisfies the requirement of attendance, progress and conduct as stipulated by the university shall be eligible to appear for the university examination. Certificate to that effect shall be produced from the Head of the institution along with the application for examination and the prescribed fee.</p>	<p>9. Schedule of Examination:</p> <p>The university shall conduct one examination annually as notified by the university. A candidate who satisfies the requirement of attendance, progress and conduct as stipulated by the university shall be eligible to appear for the university examination.</p>
2	<p>First Year Allied Health Sciences-</p> <p>Microbiology-</p> <p>7. Parasitology-</p> <p>List of medically important parasites and diseases (E.histolytica, Plasmodium, W.bancrofti, Ascaris, Ancylostoma)</p>	<p>Diseases caused and Laboratory Diagnosis- E.histolytica, Plasmodium, W.bancrofti, Ascaris, Ancylostoma</p>
	<p>8. Virology-</p> <p>List of medically important viruses and diseases (AIDS, Hepatitis, Rabies, Polio, Arboviruses)</p>	<p>Diseases caused and laboratory diagnosis of -HIV, Hepatitis viruses, Rabies virus, Polio virus, Arboviruses</p>
	<p>9. Mycology-</p> <p>List of medically important fungi and diseases (Candidiasis, Cryptococcosis, Dermatophytes, Aspergillosis and Mucor mycosis)</p>	<p>Disease caused and laboratory diagnosis of -Candida, Cryptococcus, Dermatophytes, Aspergillus, Mucor.</p>
3	<p>Second year B.Sc MLT- Biochemistry</p> <p>Preparation of solutions and reagents</p> <ul style="list-style-type: none"> • Basic requirements – types / grades of chemicals, solvents, types of water and other requirements • Various types of solutions and reagents – Normal, Molar, percent, buffer solutions and substrates, indicators, standards 	<p>Delete</p>

4	<p>Second year B.Sc MLT- Biochemistry Theory VII. Metabolism of carbohydrates-</p> <p>Metabolic pathways, energetics, inhibitors and regulation, disorders - Glycolysis, TCA cycle, Glycogen metabolism.</p>	<p>Metabolic pathways, energetics, inhibitors and regulation, disorders - Glycolysis, TCA cycle- amphibolic and anaplerotic role, Glycogen metabolism.</p>
5	<p>Second year B.Sc MLT- Biochemistry Theory VIII. Metabolism of amino acid and nucleic acid-</p> <p>b. Catabolism of Branched chain, Phenylalanine/Tyrosine catabolism :</p> <ul style="list-style-type: none"> • Pathway Disorders- Phenylketonuria, Alkaptonuria, Maple Syrup Urine Disease 	<p>Catabolism of Branched chain, Phenylalanine/Tyrosine , glycine, tryptophan and sulphur amino acids and their pathway disorders</p>
6	<p>Second year B.Sc MLT- Biochemistry Practicals-</p> <p><u>II. QUALITATIVE</u></p> <p>a. Color reactions - known test solutions</p> <ul style="list-style-type: none"> • Carbohydrates: Glucose, Fructose, Xylose, Sucrose, Starch • Amino acids in protein solution • NPN- Urea, Creatinine and Uric acid • Titrable acidity and ammonia in urine 	<p><u>II. QUALITATIVE</u></p> <p>a. Color reactions - known test solutions</p> <ul style="list-style-type: none"> • Carbohydrates: Glucose, Fructose, Xylose, Sucrose, Starch • Amino acids in protein solution • NPN- Urea, Creatinine and Uric acid
7	<p>Third year B.Sc MLT- Biochemistry Theory-</p> <p>V. Metabolism of Carbohydrates</p> <ul style="list-style-type: none"> • HMP pathway, Uronic acid pathway, Metabolism of galactose and fructose • Disorders 	<p>V. Metabolism of Carbohydrates</p> <ul style="list-style-type: none"> • Gluconeogenesis, HMP pathway, Uronic acid pathway, Metabolism of galactose and fructose • Disorders
8	<p>Third year B.Sc MLT- Biochemistry Theory-</p> <p>XI. Pancreatic function tests:</p> <ul style="list-style-type: none"> • Functions of pancreas, composition of pancreatic juice. • Clinical utility of enzyme determinations in pancreatitis. 	<p>XI. Pancreas:</p> <ul style="list-style-type: none"> • Functions of pancreas, composition of pancreatic juice. • Clinical utility of enzyme determinations in pancreatitis.

9	<p>Third year B.Sc MLT- Biochemistry Theory-</p> <p>XII. Thyroid function tests</p> <ul style="list-style-type: none"> • Overview of function of thyroid hormones. • Clinical utility and methods for the measurement of circulating thyroid hormones. 	<p>XII. Thyroid</p> <ul style="list-style-type: none"> • Overview of function of thyroid hormones. • Clinical utility and methods for the measurement of circulating thyroid hormones. 																								
10	<p>Third year B.Sc MLT- Biochemistry Practicals-</p> <p>The scheme of examination for Biochemistry III Practical shall be as follows: Distribution of marks</p> <table border="1" data-bbox="486 689 880 1028"> <thead> <tr> <th>Type of Question</th> <th>Marks allotted</th> </tr> </thead> <tbody> <tr> <td>Quantitative estimation</td> <td>30</td> </tr> <tr> <td>Renal Calculi</td> <td>20</td> </tr> <tr> <td>Urine examination</td> <td>20</td> </tr> <tr> <td>Case Reports</td> <td>10</td> </tr> <tr> <td>Total</td> <td>80</td> </tr> </tbody> </table>	Type of Question	Marks allotted	Quantitative estimation	30	Renal Calculi	20	Urine examination	20	Case Reports	10	Total	80	<p>The scheme of examination for Biochemistry III Practical shall be as follows: Distribution of marks</p> <table border="1" data-bbox="1177 654 1541 1066"> <thead> <tr> <th>Type of Question</th> <th>Marks allotted</th> </tr> </thead> <tbody> <tr> <td>Quantitative estimation</td> <td>30</td> </tr> <tr> <td>Renal Calculi</td> <td>20</td> </tr> <tr> <td>Spotters (from the practical demonstration section)</td> <td>10</td> </tr> <tr> <td>Case Reports</td> <td>20</td> </tr> <tr> <td>Total</td> <td>80</td> </tr> </tbody> </table>	Type of Question	Marks allotted	Quantitative estimation	30	Renal Calculi	20	Spotters (from the practical demonstration section)	10	Case Reports	20	Total	80
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