

CENTRE FOR MEDICAL BIOTECHNOLOGY
M. D. UNIVERSITY, ROHTAK

CBCS-SCHEME OF EXAMINATION (M.Sc. –Medical Biotechnology)-2016-17 onwards
SCHEME OF EXAMINATION – M.Sc. (Medical Biotechnology)

S.No.	Course Code	Nomenclature of course	Credit			Total credit	Hours	Maximum marks
			L	T	P			
1st Semester								
1	16MBT21HC1	Cell and Molecular Biology	4	0	0	4	4	80+20 IA
2	16MBT21HC2	Animal Cell Culture	4	0	0	4	4	80+20 IA
3	16MBT21HC3	Essentials of Microbiology	4	0	0	4	4	80+20 IA
4	16MBT21HC4	Bio-statistics and Computer applications	4	0	0	4	4	80+20 IA
5	16MBT21HC5	Biomolecules and Metabolism	4	0	0	4	4	80+20 IA
6	16MBT21HC6	Lab course I*	0	0	4	4	8	100
7	16MBT21HC7	Lab course II*	0	0	4	4	8	100
Total Credits			20	0	8	28		700
* Lab course I pertains to 16MBT21HC1 and 16MBT21HC2; Lab course II pertains to 16MBT21HC3, 16MBT21HC4 and 16MBT21HC5.								

S.No.	Course Code	Nomenclature of course	Credit			Total credit	Hours	Maximum marks
			L	T	P			
2nd Semester								
8	16MBT22HC1	Genetic Engineering	4	0	0	4	4	80+20 IA
9	16MBT22HC2	Immunology	4	0	0	4	4	80+20 IA
10	16MBT22HC3	Bioinformatics	4	0	0	4	4	80+20 IA
11	16MBT22SC1	Virology #	4	0	0	4	4	80+20 IA
12	16MBT22SC2	Biotechniques #	4	0	0	4	4	80+20 IA
13	16MBT22OE1	Principles of Medical Biotechnology-I	3	0	0	3	3	80+20 IA
14	16MBT22FC1	Communication Skill	2	0	0	2	2	80+20 IA
15	16MBT22HC4	Lab course III*	0	0	4	4	8	100
16	16MBT22HC5	Lab course IV*	0	0	4	4	8	100
Total Credits			21	0	8	29		800
# One course to be opted out of soft core (SC) courses.								
! Open elective (OE): To be chosen from pool of OE courses of University. Students of M.Sc. (Medical Biotechnology) not to opt for 16MBT22OE6.								
* Lab course III pertains to 16MBT22HC1 and 16MBT22HC2; Lab course IV pertains to 16MBT22HC3, 16MBT22SC1/16MBT22SC2								

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S.No.	Course Code	Nomenclature of course	Credit			Total credit	Hours	Maximum marks
			L	T	P			
3rd Semester								
17	16MBT23HC1	Stem cell Biology	4	0	0	4	4	80+20 IA
18	16MBT23HC2	Biology of Infectious Diseases	4	0	0	4	4	80+20 IA
19	16MBT23SC1	Diagnostics [#]	4	0	0	4	4	80+20 IA
20	16MBT23SC2	Essentials of Drug Designing [#]	4	0	0	4	4	80+20 IA
21	16MBT23SC3	Human Genome and Genetics [#]	4	0	0	4	4	80+20 IA
22	16MBT23SC4	Human Physiology and Developmental Biology [#]	4	0	0	4	4	80+20 IA
23	16MBT23OE1	Principles of Medical Biotechnology II	3	0	0	3	3	80+20 IA
24	16MBT23HC3	Lab Course V*	0	0	4	4	8	100
25	16MBT23HC4	Lab Course VI*	0	0	4	4	8	100
Total Credits			19	0	8	27		700
<p>[#] Two courses to be opted out of soft core (SC) courses. ! Open elective (OE): To be chosen from pool of OE courses of University. Students of M.Sc. (Medical Biotechnology) not to opt for 16MBT23OE1. * Lab course V pertains to 16MBT23HC 1 and 16MBT23HC2 *Lab course VI pertains to 16MBT23SC1/16MBT23SC2/16MBT23SC3/16MBT23SC4</p>								

S.No.	Course Code	Nomenclature of course	Credit			Total credit	Hours	Maximum marks
			L	T	P			
4th Semester								
26	16MBT24HC1	Ethical, Safety and Management Issues in Medical Biotechnology	4	0	0	4	4	80+20 IA
27	16MBT24HC2	Public Health and Vaccinology	4	0	0	4	4	80+20 IA
28	16MBT24HC3	Dissertation	20	0	0	20	40	300
Total Credits			28	0	0	28		500
Cumulative program credit						112		2700