

6MCBA10R3656

021013061

# University of Calcutta



*This is to certify that*

**Sunandan Naha**

*has been admitted to the degree of Bachelor of Science (Three Year Honours Course) with specialization in Microbiology in this University, he having been examined and found qualified to receive the same by Ramakrishna Mission Vidyamandira College, an Autonomous College, in the year 2013 at the examination under Semester system and that he was placed in the First Class.*



*Surenjer Das*

Senate House,  
The 27th June, 2013

Vice-Chancellor



# RAMAKRISHNA MISSION VIDYAMANDIRA

( Residential Autonomous College )

AFFILIATED TO

UNIVERSITY OF CALCUTTA

STATEMENT OF MARKS OBTAINED BY

NAME: SUNANDAN NAHA

Roll & No: 1MCBA10R177 Reg No : AO4-1112-0136-10

at the B.Sc. FIRST SEMESTER EXAMINATION, 2010

Subject	Paper	Semester 1 Paper Content		Sem 1 Full Marks	Sem 1 Pass Marks	Sem 1 Marks Obtained	Sem 1 Subject Total	Sem 1 Subject Status
MCBA	I	General Microbiology & Biometry (I), Microbiological Methods, Biophysics, Stereochemistry & Biomolecules (I)	Theory	75	23	29	49	H
		General Microbiology, Microbiological Methods	Practical	25	8	20		
CEMG	I	Inorganic Chemistry and Principles of Organic Qualitative Analysis	Theory	25	8	10	57	P
		Organic Qualitative Analysis	Practical	50	15	47		
PHSG	I	Classical Mechanics & Gravitation, Heat & Thermodynamics	Theory	50	15	7	18	F
		Optics, General Physics, Modern Physics, Sound, Electricity	Practical	25	8	11		
ENG C	I	Short Story, Prose, Poetry, Functional English		25	8	14	14	P
BNGM	I	Choto Golpo, Kabita, Paribhasha		25	8	14	14	P
ICSH	I	Santi Mantras, Vidyarthi Vrata Mantras, Life of Swami Vivekananda		25	8	17	17	P
REMARKS				QS2A				

\* A student must secure at least 30% in Honours (in theory & practical papers separately) at the end of each Sem (1st to 5th) to be promoted to the next Semester.

\* For promotion to 2nd & 3rd years (i.e from 2nd to 3rd Sem & 4th to 5th Sem) a student must secure at least 35% in Honours (in theory & practical papers separately) taking together marks secured in 1st & 2nd and in 3rd & 4th Semesters respectively.

Krishnanathananda  
Controller of Examinations  
Ramakrishna Mission Vidyamandira

Jyaganthananda  
Principal  
Ramakrishna Mission Vidyamandira



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STATEMENT OF MARKS OBTAINED BY

NAME: SUNANDAN NAHA

Roll & No: 1MCBA10A124 Reg No : AO4-1112-0136-10

at the B.Sc. FIRST SEMESTER EXAMINATION, 2011

Subject	Paper	Semester 1 Paper Content	Sem 1 Full Marks	Sem 1 Pass Marks	Sem 1 Marks Obtained	Sem 1 Subject Total	Sem 1 Subject Status
MCBA	I	Theory					
		Practical					
CEMG	I	Theory					
		Practical					
PHSG	I	Classical Mechanics & Gravitation, Heat & Thermodynamics	Theory	50	15	27	27 P
ENGC	I						
BNGM	I						
ICSH	I						

\* A student must secure at least 30% in Honours (in theory & practical papers separately) at the end of each Sem (1st to 5th) to be promoted to the next Semester.

\* For promotion to 2nd & 3rd years (i.e. from 2nd to 3rd Sem & 4th to 5th Sem) a student must secure at least 35% in Honours (in theory & practical papers separately) taking together marks secured in 1st & 2nd and in 3rd & 4th Semesters respectively.

*Jyaganpandananda*

Principal  
Ramakrishna Mission Vidyamandira

*Krishnanathananda*

Controller of Examinations  
Ramakrishna Mission Vidyamandira

# RAMAKRISHNA MISSION VIDYAMANDIRA

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**NAME: SUNANDAN NAHA**

**Roll & No: 2MCBA10R176 Reg No : AO4-1112-0136-10**

**at the B.Sc. SECOND SEMESTER EXAMINATION, 2011**

Subject	Paper	Semester 2 Paper Content		Sem 1 Full Marks	Sem 1 Marks Obtained	Sem 2 Full Marks	Sem 2 Pass Marks	Sem 2 Marks Obtained	Sem 2 Subject Total	Sem 2 Subject Status
MCBA	II	General Microbiology & Biometry (II), Biophysics & Biomolecules (II)	Theory	75	29	75	23	50	73	H
		General Microbiology, Biometry, Biochemistry	Practical	25	20	25	8	23		
CEMG	II	Organic Chemistry & Qualitative Inorganic Analysis	Theory	25	10	25	8	12	40	P
		Organic Chemistry & Qualitative Inorganic Analysis	Practical	50	47	50	15	28		
PHSG	II	General Properties of Matter, Geometrical Optics, Waves & Vibration	Theory	50	7	50	15	22	40	P
		General Properties of Matter, Modern Physics, Electricity, Heat	Practical	25	11	25	8	18		
ENG C	II	Short Story, Prose, Poetry, Functional English		25	14	25	8	17	17	P
BNGM	II	Prabandha O Pratibedan		25	14	25	8	13	13	P
ICSH	II	Santi Mantras, Introduction to Gita, Life of Holy Mother Sri Sarada Devi,		25	17	25	8	22	22	P
Full marks in Microbiology Honours (MCBA) in First Year B.Sc (Sem 1 + Sem 2)				Theory		150		200		
				Practical		50				
Qualifying marks in Microbiology Honours (MCBA) in First Year B.Sc (Sem 1 + Sem 2)				Theory		53				
				Practical		18				
Total marks obtained in Microbiology Honours (MCBA) in First Year B.Sc (Sem 1 + Sem 2)				Theory		79		122		
				Practical		43				
REMARKS				QS3						

- \* A student must secure at least 30% in Honours (in theory & practical papers separately) at the end of each Sem (1st to 5th) to be promoted to the next Semester.  
 \* For promotion to 2nd & 3rd years (i.e from 2nd to 3rd Sem & 4th to 5th Sem) a student must secure at least 35% in Honours (in theory & practical papers separately) taking together marks secured in 1st & 2nd and in 3rd & 4th Semesters respectively.

*Krishnanathananda*

Controller of Examinations  
Ramakrishna Mission Vidyamandira

*Jyaganathananda*

Principal  
Ramakrishna Mission Vidyamandira



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NAME: SUNANDAN NAHA

Roll & No: 3MCBA10R174 Reg No : AO4-1112-0136-10

at the B.Sc. THIRD SEMESTER EXAMINATION, 2011

Subject	Paper	Semester 3 Paper Content		Sem 1-2 Full Marks	Sem 1-2 Marks Obtained	Sem 3 Full Marks	Sem 3 Pass Marks	Sem 3 Marks Obtained	Sem 3 Subject Total	Sem 3 Subject Status
MCBA	III	Cell Biology-I, Molecular Biology, Biochemistry-III, Environmental Microbiology-I	Theory	150	79	75	23	35	57	H
		Biochemistry, General Microbiology, Environmental Microbiology	Practical	50	43	25	8	22		
CEMG	III	Inorganic, Organic & Physical Chemistry	Theory	50	22	75	23	23	23	P
			Practical	100	75					
PHSG	III	Electricity & Magnetism	Theory	100	49	50	15	7	7	F
			Practical	50	29					
ENVS	I	Biodiversity, Environmental Pollution, Nature of Environment Studies, Natural Resources				25	8	19	19	P
ICSH	III	Shanti Mantras, Life of Sri Ramakrishna, Introduction to Bhagavad Gita		50	39	25	8	13	13	P
REMARKS				QS4A						

\* A student must secure at least 30% in Honours (in theory & practical papers separately) at the end of each Sem (1st to 5th) to be promoted to the next Semester.

\* For promotion to 2nd & 3rd years (i.e from 2nd to 3rd Sem & 4th to 5th Sem) a student must secure at least 35% in Honours (in theory & practical papers separately) taking together marks secured in 1st & 2nd and in 3rd & 4th Semesters respectively.

*Jyaganuparna*

Principal  
Ramakrishna Mission Vidyamandira

*Krishnanathananda*

Controller of Examinations  
Ramakrishna Mission Vidyamandira

# RAMAKRISHNA MISSION VIDYAMANDIRA

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STATEMENT OF MARKS OBTAINED BY

NAME: Sunandan Naha

Roll & No: 3MCBA11A1449

Reg No: AO4-1112-0136-10

Subject	Sem 3 Paper	Semester 3 Paper Content	Sem 1-2 Full Marks	Sem 1-2 Marks Obtained	Sem 3 Full Marks	Sem 3 Pass Marks	Sem 3 Marks Obtained	Sem 3 Subject Total	Sem 3 Subject Status
MCBA	III	Theory							
		Practical							
PHSG	III	Electricity & Magnetism			50	15	17	17	P
		Practical							
CEMG	III	Theory							
		Practical							
ICSH	III								
ENVS	I/II								
REMARKS									

- A student must secure at least 30% marks in Honours (in theory and practical papers separately) at the end of each semester (1<sup>st</sup> to 5<sup>th</sup>) to be promoted to the next semester.
- For promotion to 2<sup>nd</sup> & 3<sup>rd</sup> years (i.e. from 2<sup>nd</sup> to 3<sup>rd</sup> Sem & 4<sup>th</sup> to 5<sup>th</sup> Sem) a student must secure at least 35% marks in Honours (in theory and practical papers separately) taking together the marks secured in 1<sup>st</sup> & 2<sup>nd</sup> and in 3<sup>rd</sup> & 4<sup>th</sup> Semesters respectively.
- To complete the course, a student must secure 40 in aggregate at the end of 6<sup>th</sup> Semester (taking marks of all the six semesters).

*Jyegaurananda*

Principal

RAMAKRISHNA MISSION VIDYAMANDIRA



*Krishnanathananda*

Controller of Examination

RAMAKRISHNA MISSION VIDYAMANDIRA



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NAME: SUNANDAN NAHA

Roll & No: 4MCBA10R174 Reg No : AO4-1112-0136-10

at the B.Sc. FOURTH SEMESTER EXAMINATION, 2012

Subject	Paper	Semester 4 Paper Content		Sem 1-2 Marks Obtained	Sem 3 Full Marks	Sem 3 Marks Obtained	Sem 4 Full Marks	Sem 4 Pass Marks	Sem 4 Marks Obtained	Sem 4 Subject Total	Sem 4 Subject Status
MCBA	IV	Environmental Microbiology-II, Cell Biology-II, Food Microbiology & Metabolism	Theory	79	75	35	75	23	38	58	H
		Food Microbiology, Biochemistry, Environmental Microbiology	Practical	43	25	22	25	8	20		
CEMG	IV	Physical, Organic & Inorganic Chemistry	Theory	22	75	23	75	23	31	31	P
			Practical	75							
PHSG	IV	Physical Optics, Electronics, Modern Physics	Theory	49	50	7	50	15	16	51	P
		Physical Optics, Electronics, Magnetism, Heat & Electricity	Practical	29			50	15	35		
ENVS	II	Social Issues & the Environment, Global Warming & Alternative Energy Sources, Eco System				25	19	75	23	57	P
ICSH	IV	Santi Mantras, Life of Sri Ramakrishna, Kathopanishad			39	25	13	25	8	13	P
Full marks in Microbiology Honours (MCBA) in Second Year B.Sc (Sem 3 + Sem 4)					Theory			150		200	
					Practical			50			
Qualifying marks in Microbiology Honours (MCBA) in Second Year B.Sc (Sem 3 + Sem 4)					Theory			53		115	
					Practical			18			
Total marks obtained in Microbiology Honours (MCBA) in Second Year B.Sc (Sem 3 + Sem 4)					Theory			73		115	
					Practical			42			
REMARKS					QS5						

- \* A student must secure at least 30% in Honours (in theory & practical papers separately) at the end of each Sem (1st to 5th) to be promoted to the next Semester.  
\* For promotion to 2nd & 3rd years (i.e. from 2nd to 3rd Sem & 4th to 5th Sem) a student must secure at least 35% in Honours (in theory & practical papers separately) taking together marks secured in 1st & 2nd and in 3rd & 4th Semesters respectively.  
\* To complete the course, a student must secure 40% in aggregate at the end of 6th Semester (taking marks of all the six semesters).

*Jyaganthananda*

Principal  
Ramakrishna Mission Vidyamandira



*Krishnanathananda*

Controller of Examinations  
Ramakrishna Mission Vidyamandira

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NAME: Sunandan Naha

Roll & No: 5MCBA10R1449

Reg No: AO4-1112-0136-10

## B.Sc. Fifth Semester Examination, 2012

Subject	Sem 5 Paper	Semester 5 Paper Content		Sem 1-4 Full Marks	Sem 1-4 Marks Obtained	Sem 5 Full Marks	Sem 5 Pass Marks	Sem 5 Marks Obtained	Sem 5 Subject Total	Sem 5 Subject Status	
MCBA	V	Genome Organization, Genetics-I, Industrial Microbiology, Virology-I, Medical Microbiology-I, Immunology-I	Theory	300	152	100	30	45	45	H	
			Practical	100	85						
MCBA	VI		Theory						87		
		Molecular Biology, Immunology, Biochemistry	Practical			100	30	87			
			Practical								
ICSH	V	Introduction to various Religions, Discussion of Personal & Social values					25	8	19	P	
REMARKS				Q56							

- A student must secure at least 30% marks in Honours (in theory and practical papers separately) at the end of each semester (1<sup>st</sup> to 5<sup>th</sup>) to be promoted to the next semester.
- For promotion to 2<sup>nd</sup> & 3<sup>rd</sup> years (i.e from 2<sup>nd</sup> to 3<sup>rd</sup> Sem & 4<sup>th</sup> to 5<sup>th</sup> Sem) a student must secure at least 35% marks in Honours (in theory and practical papers separately) taking together the marks secured in 1<sup>st</sup> & 2<sup>nd</sup> and in 3<sup>rd</sup> & 4<sup>th</sup> Semesters respectively.
- To complete the course, a student must secure 40% in aggregate at the end of 6<sup>th</sup> Semester (taking marks of all the six semesters).

*Jyegowpananda*

Principal

RAMAKRISHNA MISSION VIDYAMANDIRA



*Krishnanathananda*

Controller of Examination

RAMAKRISHNA MISSION VIDYAMANDIRA



**RAMAKRISHNA MISSION VIDYAMANDIRA**

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**UNIVERSITY OF CALCUTTA****STATEMENT OF MARKS OBTAINED BY****NAME: Sunandan Naha****Roll & No.: 6MCBA10R3656****Reg No.: AO4-1112-0136-10****at the B.Sc. SIXTH SEMESTER EXAMINATION, 2013**

Subject	Sem 6 Paper	Semester - 6 Paper Content	Sem 5 Full Marks	Sem 5 Marks Obtained	Sem 6 Full Marks	Sem 6 Pass Marks	Sem 6 Marks Obtained	Sem 6 Subject Total	Sem 6 Subject Status
MCBA	VII	Genetics-II & RDT, Medical Microbiology-II, Virology-II & Immunology-II	Theory	100	45	100	30	52	H
			Practical	100	87				
MCBA	VIII		Theory					90	H
		Molecular Biology, Cytology	Practical			100	30	90	
			Theory						
			Practical						
ICSH	VI	Basic tenets of Major Religions, Bhagavad Gita, Swami Vivekananda's writings (selected)	25	19	25	8	13	13	P
<b>Full Marks in Microbiology Honours (MCBA) in 3rd year B.Sc. (Sem 5 + 6)</b>				Theory		200		400	
				Practical		200			
<b>Qualifying Marks in Microbiology Honours (MCBA) in 3rd year B.Sc. (Sem 5 + 6)</b>				Theory		70			
				Practical		70			
<b>Marks obtained in Microbiology Honours (MCBA) in 3rd year B.Sc. (Sem 5 + 6)</b>				Theory		97		274	
				Practical		177			
<b>MARKS CREDITED PREVIOUSLY</b>									
Subject	Semester	Paper	Full Marks		Marks Obtained		Subject Total		
			Theory	Practical	Theory	Practical			
MCBA	Sem 1 to Sem 4	I to IV	300	100	152	85	237		
CEMG	Sem 1 to Sem 4	I to IV	200	100	76	75	151		
PHSG	Sem 1 to Sem 4	I to IV	200	100	82	64	146		
ENVS	Sem 3 & Sem 4	I & II	100		76		76		
ENGC	Sem 1 & Sem 2	I & II	50		31		31		
BNGM	Sem 1 & Sem 2	I & II	50		27		27		
ICSH	Sem 1 to Sem 4	I to IV	100		65		65		
<b>Full Marks in B.Sc. Microbiology Honours (MCBA) Sem 1 - 6</b>				Theory		500		800	
				Practical		300			
<b>Qualifying Marks in B.Sc. Microbiology Honours (MCBA) Sem 1 - 6</b>				Theory		175			
				Practical		105			
<b>Marks obtained in B.Sc. Microbiology Honours (MCBA) Sem 1 - 6</b>				Theory		249		511	
				Practical		262			
<b>REMARKS</b>				<b>I</b>					

- \* A student must secure at least 30% in Honours (in theory & practical papers separately) at the end of each Sem (1st to 5th) to be promoted to the next Semester.
- \* For promotion to 2nd & 3rd years (i.e. from 2nd to 3rd Sem & 4th to 5th Sem) a student must secure at least 35% in Honours (in theory & practical papers separately) taking together marks secured in 1st & 2nd and in 3rd & 4th Semesters respectively.
- \* To complete the course, a student must secure 40% in aggregate at the end of 5th Semester (taking marks of all the six semesters).

**Shastrijananda**

Principal

(Chief Controller of Examinations)  
Ramakrishna Mission Vidyamandira**Krishnanathananda**Controller of Examinations  
Ramakrishna Mission Vidyamandira



# SUBJECT STATUS CODE

H	Qualified in Honours Course. (This is when the candidate gets more than 35% in honours. If the candidate secures less than 35 % but more than 30 %, then the code will be P)	F	Failed in the subject
P	Passed / Qualified in the subject	G	Qualified as General

## REMARKS

Semester 1		Semester 2	
Q52	Qualified for 2 <sup>nd</sup> Semester	Q53	Qualified for 3 <sup>rd</sup> Semester
Q52A	Qualified for 2 <sup>nd</sup> Semester with Arrear in Gen/Lang/ICSH/any two/all three	Q53A	Qualified for 3 <sup>rd</sup> Semester with Arrear in Gen/Lang/ICSH/any two/all three
S1X	Failed in Honours in 1 <sup>st</sup> Semester but credited with Gen, Lang, & ICSH marks	S2X	Failed in Honours in 2 <sup>nd</sup> Semester but credited with Gen, Lang, & ICSH marks
S1XA	Failed in Honours in 1 <sup>st</sup> Semester with Arrear in Gen/Lang/ICSH/any two/all three	S(1+2)X	Failed in Honours taking 1 <sup>st</sup> and 2 <sup>nd</sup> Semester together but credited with Gen, Lang, & ICSH marks
		S2XA	Failed in Honours in 2 <sup>nd</sup> Semester with Arrear in Gen/Lang/ICSH/any two/all three
		S(1+2)XA	Failed in Honours taking 1 <sup>st</sup> & 2 <sup>nd</sup> Semesters together with Arrear in Gen/Lang/ICSH/ any two/all three.
		S2(1+2)X	Failed in Honours in 2 <sup>nd</sup> Semester & also taking 1 <sup>st</sup> & 2 <sup>nd</sup> Semesters together, but credited with Gen, Lang, & ICSH marks
		S2(1+2)XA	Failed in Honours in 2 <sup>nd</sup> Semester & also taking 1 <sup>st</sup> & 2 <sup>nd</sup> Semesters together with Arrear in Gen/Lang/ICSH/any two/all three.
Semester 3		Semester 4	
Q54	Qualified for 4 <sup>th</sup> Semester	Q55	Qualified for 5 <sup>th</sup> Semester
Q54A	Qualified for 4 <sup>th</sup> Semester with Arrear in Gen/Envs/ICSH/any two/all three	Q55A	Qualified for 5 <sup>th</sup> Semester with Arrear in Gen/Envs/ICSH/any two/all three
S3X	Failed in Honours in 3 <sup>rd</sup> Semester but credited with Gen, Envs, & ICSH marks	S4X	Failed in Honours in 4 <sup>th</sup> Semester but credited with Gen, Envs, & ICSH marks
S3XA	Failed in Honours in 3 <sup>rd</sup> Semester with Arrear in Gen/Envs/ICSH/any two/all three.	S(3+4)X	Failed in Honours taking 3 <sup>rd</sup> and 4 <sup>th</sup> Semesters together but credited with Gen, Envs, & ICSH marks
		S4XA	Failed in Honours in 4 <sup>th</sup> Semester with Arrear in Gen/Envs/ICSH/any two/all three
		S(3+4)XA	Failed in Honours taking 3 <sup>rd</sup> and 4 <sup>th</sup> Semesters together with Arrear in Gen/Envs/ICSH/any two/all three
		S4(3+4)X	Failed in Honours in 4 <sup>th</sup> Semester & also taking 3 <sup>rd</sup> and 4 <sup>th</sup> Semesters together, but credited with Gen, Envs, & ICSH marks
		S4(3+4)XA	Failed in Honours in 4 <sup>th</sup> Semester & also taking 3 <sup>rd</sup> and 4 <sup>th</sup> Semesters together with Arrear in Gen/Envs/ICSH/any two/all three
Semester 5		Semester 6	
Q56	Qualified for 6 <sup>th</sup> Semester	I	First Class Honours
Q56A	Qualified for 6 <sup>th</sup> Semester with Arrear in ICSH	II	Second Class Honours
S5X	Failed in 5 <sup>th</sup> Semester but credited with ICSH marks	QG	Qualified as Candidate of General Course
S5XA	Failed in 5 <sup>th</sup> Semester with Arrear in ICSH	QGA	Qualified as Candidate of General Course with Arrear in ICSH
		QA	Qualified in Honours with Arrear in Gen/Envs/Lang/ICSH/any two/any three/all four
		S6X	Failed in 6 <sup>th</sup> Semester but credited with ICSH marks
		S6XA	Failed in 6 <sup>th</sup> Semester with Arrear in ICSH marks
		S(5+6)X	Failed in Honours taking 5 <sup>th</sup> & 6 <sup>th</sup> Semesters together but credited with ICSH marks
		S(5+6)XA	Failed in Honours taking 5 <sup>th</sup> & 6 <sup>th</sup> Semesters together with Arrear in ICSH marks

APD  
20/11/13  
ADMIT IN C.U.

## SUBJECT CODES

B.A / B.Sc

### Honours & General Subjects

SUBJECTS	ABBREVIATIONS	
	HONOURS	GENERAL
Physics	PHSA	PHSG
Chemistry	CEMA	CEMG
Mathematics	MTMA	MTMG
Microbiology	MCBA	—
Economics	ECOA	ECOG
Computer Science	CMSA	CMSG
Industrial Chemistry	INCA	—
Sanskrit	SANA	SANG
Bengali	BNGA	BNGG
English	ENGA	—
History	HISA	HISG
Political Science	PLSA	PLSG
Philosophy	PHIA	PHIG
Electronics	—	ELTG
Statistics	—	STSG

### Compulsory Language Group

SUBJECTS	ABBREVIATIONS
MAJOR INDIAN LANGUAGE (MIL) / ALTERNATIVE ENGLISH	
Bengali	BNGM
Alternative English	ENGM
COMPULSORY PAPERS	
Compulsory English	ENGC
Indian Culture & Spiritual Heritage	ICSH
Environmental Studies	ENVS