

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED.

EXAMINATION PROGRAMME

B.Sc. I, VI & II, V Semester Winter Exam – 2015

The Examination shall be held on days & dates mentioned below at all Centres simultaneously.

Time: I Semester : (Th+MCQ Pattern) 10:00am to 12:00pm

VI Semester : (Theory Pattern) 10:00am to 12:00 noon

II Semester : (Th+MCQ Pattern) 02:00pm to 04:00pm

V Semester : (Theory Pattern) 02:00pm to 04:00pm

Sr. No.	Subject & Paper No.	Day & Date	Sr. No.	Subject & Paper No.
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TUESDAY 17.11.2015

B.Sc. I Semester		B.Sc. II Semester	
STATISTICS		STATISTICS	
01	Elementary Probability Theory – I	05	Discrete Probability Distributions – III
MICROBIOLOGY		MICROBIOLOGY	
02	Introductory Microbiology – I	06	Basic Microbiology & Bimolecules – III
B.Sc. VI Semester		B.Sc. V Semester	
STATISTICS		Environmental Study	
03	Design of Experiments - XIV	1001	(Compulsory) (02:00pm to 04:00pm)
MICROBIOLOGY			
04	Molecular Biology XIV		

WEDNESDAY 18.11.2015

B.Sc. I Semester		B.Sc. II Semester	
STATISTICS		STATISTICS	
08	Descriptive Statistics – II	13	Theory of Variables and Attributes – IV
MICROBIOLOGY		MICROBIOLOGY	
09	Microbiological Techniques – II	14	Microbial Physiology – IV
B.Sc. VI Semester		B.Sc. V Semester	
STATISTICS		STATISTICS	
10	Operation Research – XV OR	15	Survey Sampling - XII
11	Demography - XV		
MICROBIOLOGY		MICROBIOLOGY	
12	Industrial Microbiology – XV	16	Microbial Genetics - XII

THURSDAY 19.11.2015

B.Sc. I Semester SECOND LANGUAGE	27	B.Sc. II Semester (84) English (Compulsory)
17 (54) Hindi		B.Sc. V Semester
18 (55) Marathi		STATISTICS
19 (56) Urdu	28	Linear Programming –XIII OR
20 (57) Sanskrit	29	Statistical Quality Control - XIII
21 (58) Pali		MICROBIOLOGY
22 (59) Additional English	30	Microbial Metabolism - XIII
23 (60) Kannada		
24 (61) Russian		
B.Sc. VI Semester BOTANY		
25 Genetics & Biotechnology – XIV		
MATHEMATICS		
26 Numerical Analysis (MT-304) - XVI		

FRIDAY 20.11.2015

B.Sc. I Semester (84) English Compulsory	31	B.Sc. II Semester SECOND LANGUAGE
	34	(91) Hindi
B.Sc. VI Semester BOTANY	35	(92) Marathi
32 Optional- XV	36	(93) Urdu
1 Plant Pathology – II	37	(94) Sanskrit
2 Systematic Botany – II	38	(95) Pali
3 Applied Economics Botany – II	39	(96) Additional English
4 Herbal Technology - II	40	(97) Kannada
MATHEMATICS	41	(98) Russian
33 Partial Differential Equations (MT-305) - XVII		B.Sc. V Semester BOTANY
	42	Cell & Molecular Biology – XII –(Old)
	43	Plant Physiology – XII –(New)
		MATHEMATICS
	44	Metric Spaces (MT-301) – XIII

SATURDAY 21.11.2015

B.Sc. I Semester BOTANY		B.Sc. II Semester BOTANY
45 Diversity of Microbes – I	49	Diversity of Cryptogams – III
MATHEMATICS		MATHEMATICS
46 Differential Calculus – I	50	Integral Calculus – III

<p>B.Sc. VI Semester MATHEMATICS</p> <p>47 Topology – XVIII OR</p> <p>48 Mechanics – II (Dynamics) - XVIII</p>	<p>B.Sc. V Semester BOTANY</p> <p>51 Optional-XIII</p> <ol style="list-style-type: none"> 1. Plant Pathology – I 2. Systematic Botany – I 3. Applied Economic Botany – I 4. Herbal Technology – I <p>MATHEMATICS</p> <p>52 Linear Algebra (MT-302) – XIV</p>
MONDAY 23.11.2015	
<p>B.Sc. I Semester BOTANY</p> <p>53 Cell and Molecular Biology – II</p> <p>MATHEMATICS</p> <p>54 Algebra and Trigonometry – II</p> <p>B.Sc. VI Semester CHEMISTRY</p> <p>55 Organic Chemistry + Inorganic Chemistry - XIV</p>	<p>B.Sc. II Semester BOTANY</p> <p>56 Genetics and Plant Breeding – IV</p> <p>MATHEMATICS</p> <p>57 Geometry – IV</p> <p>B.Sc. V Semester MATHEMATICS</p> <p>58 Operation Research – XV OR</p> <p>59 Mechanics – I (Statics) - XV</p>
TUESDAY 24.11.2015	
<p>B.Sc. I Semester CHEMISTRY</p> <p>60 Organic & Inorganic Chemistry – I</p> <p>B.Sc. VI Semester CHEMISTRY</p> <p>61 Physical Chemistry + Inorganic Chemistry – XV</p>	<p>B.Sc. II Semester CHEMISTRY</p> <p>62 Organic & Inorganic Chemistry – III</p> <p>B.Sc. V Semester CHEMISTRY</p> <p>63 Organic Chemistry + Inorganic Chemistry – XII</p>
WEDNESDAY 02.12.2015	
<p>B.Sc. I Semester CHEMISTRY</p> <p>64 Physical & Inorganic Chemistry – II</p> <p>B.Sc. VI Semester PHYSICS</p> <p>65 Atomic Molecular & Nuclear Physics (PHY304) - XIV</p>	<p>B.Sc. II Semester CHEMISTRY</p> <p>67 Physical & Inorganic Chemistry – IV</p> <p>B.Sc. V Semester CHEMISTRY</p> <p>68 Physical Chemistry + Inorganic Chemistry – XIII</p>

ZOOLOGY

66 Ethnology, Biometry & Bioinformatics -
XIV I

THURSDAY 03.12.2015**B.Sc. I Semester****BIOPHYSICS**

69 Molecular Biophysics – I

B.Sc. VI Semester**PHYSICS**

70 A Digital & Communication Electronics
(PHY305) – XV
OR

71 B Solar Energy (PHY306) - XV

ZOOLOGY

72 A Pesticulture – XV
B Applied Parasitology – II
C Entomology – II
D Environmental Biology – II

B.Sc. II Semester**BIOPHYSICS**

73 Biostatistics and Computer
Fundamentals –III

B.Sc. V Semester**PHYSICS**

74 Quantum Mechanics (PHY-302) – XII

ZOOLOGY

75 Ecology & Zoogeography- XII

FRIDAY 04.12.2015**B.Sc. I Semester****BIOPHYSICS**

76 Cellular Biophysics – II

B.Sc.VI Semester**COMPUTER APPLICATION**

77 Relational Database Management System
& MQL – II - XIV

GEOLOGY

78 Stratiography of India

ANALYTICAL CHEMISTRY

79 Modern Techniques of Chemical Analysis
– II (CHAC-303) – XIV

AGROCHEMICAL & FERTILIZER

80 Preservation of Fruits & Vegetables
(CHAG-303) – XIV

ENVIRONMENTAL SCIENCE

81 Waster Water Engineering (Env-304)- XIV

B.Sc. II Semester**BIOPHYSICS**

90 Basic Biophysical Techniques – IV

B.Sc. V Semester**PHYSICS**

91 Solid State Physics (Old) – XIII

92 Solid State Physics –(New) - XIII
OR

93 Astrophysics (PHY-303) – XIII

ZOOLOGY

94 Applied Zoology – XIII

- a. Aquaculture
- b. Parasitology (Parasitic Protozoa & Platy helminthes)
- c. (Entomology - I)
- d. Environmental Biology

HORTICULTURE

82 Post Harvest & Handling of Horticultural Corps – XIV

FISHERY SCIENCE

83 Aquarium keeping & Fish Genetics – XIV

DYES AND DRUGS

84 Chemistry of Synthetic Dyes – II– XIV

INDUSTRIAL CHEMISTRY

85 Unit Process in Inorganic synthesis Drug Dyes & Industrial safety

DAIRY SCIENCE

86 Market Milk Processing - XIV

AGRICULTURAL MICROBIOLOGY

87 Recombinant DNA technology & Genetics Engineering - XIV

BIOTECHNOLOGY

88 Plant Tran genesis – XIV

ELECTRONICS

89 Communication Electronics – II – XIV

SATURDAY 05.12.2015**B.Sc. I Semester****PHYSICS**

95 Mechanics and Properties of Matter (Phy-111) – I

ZOOLOGY

96 Life and Diversity of Animals (I)(Non-Chordata) – I

B.Sc.V I Semester**COMPUTER APPLICATION**

97 Visual Basic – II – XV OR
98 Programming in JAVA – I – XV

GEOLOGY

99 Economic Geology & Prospecting – XV

B.Sc. II Semester**PHYSICS**

113 Heat and Thermodynamic – III

ZOOLOGY

114 Life and Diversity of Animals (II) – III

B.Sc. V Semester**COMPUTER APPLICATION**

115 Relational Database Management System & SQL-I - XII

GEOLOGY

116 Geomorphology & Photo geology – XII

ANALYTICAL CHEMISTRY

117 Modern Techniques of Chemical Analysis – I (CHAC-301) – XII

ANALYTICAL CHEMISTRY	
100	Applied Analytical Chemistry –II– XV
AGROCHEMICALS & FERTILIZERS	
101	Agricultural Technology (CHAG-304) – XV
ENVIRONMENTAL SCIENCE	
102	Environmental Instrumentation – II (Env-305) XV OR
103	Environmental Management (Env-306) – XV
HORTICULTURE	
104	Production Technology of Arid, Minor & Plantation Crops – XV
FISHERY SCIENCES	
105	Fish Economics, Marketing, Co-operative & Extension – XV
DYES & DRUGS	
106	Pharmaceutical Dosage Forms & Unit Operations - XV
INDUSTRIAL CHEMISTRY	
107	Spectroscopy & Chromatography plant utilities
DAIRY SCIENCE	
108	Dairy Technology – II- XV
AGRICULTURAL MICROBIOLOGY	
109	Agricultural Biotechnology - XV
BIOTECHNOLOGY	
110	Bioresource Technology – XV
ELECTRONICS	
111	Power Electronics – II – XV OR
112	8051 Microcontroller & Embedded Systems - XV
AGROCHEMICAL & FERTILIZER	
118	Agronomy & Seed Technology (CHAG-301) – XII
ENVIRONMENTAL SCIENCE	
119	Water Pollution & Waste
120	Water Analysis (Env-301) – XII
HORTICULTURE	
121	Production Technology of Spices Condiments Crops – XII
FISHERY SCIENCE	
122	Indian Fisheries and Mericulture – XII
DYES AND DRUGS	
123	Chemistry of Synthetic Dyes-I – XII
INDUSTRIAL CHEMISTRY	
124	Unit Process in Organic Synthesis – XII
DAIRY SCIENCE	
125	Market Milk Industry – XII
AGRICULTURAL MICROBIOLOGY	
126	Genetics and Molecular Biology – XII
BIOTECHNOLOGY	
127	Plants Tissue Culture – XII
ELECTRONICS	
128	Communication Electronics – I – XII

MONDAY 07.12.2015

B.Sc. I Semester

PHYSICS

129 Mathematical Methods in Physics(Phy-112)-II

ZOOLOGY

130 Cell Biology – II

B.Sc. II Semester

PHYSICS

131 Electricity & Magnetism – IV

ZOOLOGY

132 Developmental Biology – IV

B.Sc. V Semester

COMPUTER APPLICATION

133 Programming in Visual Basic-I – XIII
OR

134 Programming in JAVA-I – XIII

GEOLOGY

135 Engineering Geology & Hydrogeology – XIII

ANALYTICAL CHEMISTRY

136 Applied Analytical Chemistry-I – XIII

AGROCHEMICAL & FERTILIZERS

137 Horticulture (CHAG-302) – XIII

ENVIRONMENTAL SCIENCE

138 Environmental Instrumentation (Env-302)-I – XIII OR

139 Environmental Education & Biodiversity (Env-303) – XIII

HORTICULTURE

140 Production Technology of Medicinal & Aromatic Plants – XIII

FISHERY SCIENCE

141 Aquaculture technique & Fish Nutrition – XIII

DYES & DRUGS

142 Chemistry of Synthetic Drugs – XIII

INDUSTRIAL CHEMISTRY

143 Process Equipment Design & Process Instrumentation – XIII

DAIRY SCIENCE

144 Dairy Technology – I – XIII

AGRICULTURAL MICROBIOLOGY

145 Industrial Biotechnology - XIII

BIOTECHNOLOGY

146 Environmental Biotechnology – XIII

ELECTRONICS

147 Power Electronics-I – XIII OR

148 Introduction to Microcontroller (8051) - XIII

TUESDAY 08.12.2015**B.Sc. I Semester****COMPUTER APPLICATION**

149 Fundamentals of Computer – I

GEOLOGY

150 Earth as a Planet and Dynamic Geology – I

ANALYTICAL CHEMISTRY

151 General Concepts of Analytical Chemistry (I) – I

AGROCHEMICAL AND FERTILIZERS

152 Introductory Soil Science – I

ENVIRONMENTAL SCIENCE

153 Fundamental of Environmental Science – I (ENV-101)

HORTICULTURE

154 Fundamentals of Horticulture-I

FISHERY SCIENCE

155 Taxonomy and General Topics –I

B.Sc. II Semester**COMPUTER APPLICATION**

162 Programming With Basic – III

GEOLOGY

163 Physical Geology and Paleontology – III

ANALYTICAL CHEMISTRY

164 General Concepts of Analytical Chemistry (II) – III

AGROCHEMICAL AND FERTILIZERS

165 Soil Chemistry (II) – III

ENVIRONMENTAL SCIENCE

166 Concepts in Ecosystem – III (Env. 103)

HORTICULTURE

167 Production Technology of Tropical and Sub-Tropical Fruit Crops – III

FISHERY SCIENCE

168 Aquaculture – III

	DYES AND DRUGS		DYES AND DRUGS
156	Introduction to Dyes-I	169	Introduction to Dye Intermediates – III
	INDUSTRIAL CHEMISTRY		INDUSTRIAL CHEMISTRY
157	Unit Operations (I) – I	170	Unit Operations (II) – III
	DAIRY SCIENCE		DAIRY SCIENCE
158	Dairy Farming in India – I	171	Farm Animal Management – III
	AGRICULTURAL MICROBIOLOGY		AGRICULTURAL MICROBIOLOGY
159	Agricultural Introductory Microbiology – I	172	Cell Biology and Microbial Growth – III
	BIOTECHNOLOGY		BIOTECHNOLOGY
160	Cell Biology –I (VBT-101)	173	Math Stat & Computers – III (VBT-103)
	ELECTRONICS		INDUSTRIAL MICROBIOLOGY
161	Electronics Components and Circuit Analysis –I	174	Paper –III
			ELECTRONICS
		175	Semiconductor Devices and Instrumentation – III

WEDNESDAY 09.12.2015

B.Sc. I Semester		B.Sc. II Semester	
	COMPUTER APPLICATION		COMPUTER APPLICATION
176	Operating System Concept – II	190	Date Structure – IV
	GEOLOGY		GEOLOGY
177	Mineralogy, Crystallography – II	191	Igneous, Sedimentary and Metamorphic Petrology – IV
	ANALYTICAL CHEMISTRY		ANALYTICAL CHEMISTRY
178	Basic Analytical Chemistry (II) – II	192	Basic Analytical Chemistry (II) – IV
	AGROCHEMICAL AND FERTILIZERS		AGROCHEMICAL AND FERTILIZERS
179	Agricultural Biochemistry (I) – II	193	Food & Nutrition – IV
	ENVIRONMENTAL SCIENCE		ENVIRONMENTAL SCIENCE
180	Fresh Water : Sources & Uses-II	194	Fresh Water Treatment – IV (Env.104)

HORTICULTURE		HORTICULTURE	
181	Propagating and nursery Management – II	195	Production Technology of Arid, Minor and Plantation Fruit Crops – IV
FISHERY SCIENCE		FISHERY SCIENCE	
182	Type Study Wallago Attu (Fresh Water Shark)-II	196	Fish Seed Production Technology – IV
DYES AND DRUGS		DYES AND DRUGS	
183	Introduction to Drugs –II	197	Dosage Forms, Purity of Drugs and Biostatistics – IV
INDUSTRIAL CHEMISTRY		INDUSTRIAL CHEMISTRY	
184	Process Calculations (I) – II	198	Process Calculations (II) – IV
DAIRY SCIENCE		DAIRY SCIENCE	
185	Sheep, Goat, Poultry and Pig Farming-II	199	Farm Animal Health Management – IV
AGRICULTURAL MICROBIOLOGY		AGRICULTURAL MICROBIOLOGY	
186	Bio instrumentation and Microbial technique – II	200	Basic Microbiology Biochemistry – IV
BIOTECHNOLOGY		BIOTECHNOLOGY	
187	Microbiology –II (VBT-102)	201	Genetics & Biochemistry – IV (VBT-104)
ELECTRONICS		INDUSTRIAL MICROBIOLOGY	
188	Fundamentals of Digital Electronics – II	202	Paper –IV
B.Sc. VI Semester		ELECTRONICS	
BIOPHYSICS		203	
189	Radiation Biophysics - XIV	Combinational and Sequential Logic Circuits– IV	
THURSDAY 10.12.2015			
B.Sc. I Semester		B.Sc. II Semester	
INFORMATION TECHNOLOGY		INFORMATION TECHNOLOGY	
204	Fundamentals of Information Technology –I	206	DOS and Windows Operating System – III
B.Sc. VI Semester		B.Sc. V Semester	
BIOPHYSICS		BIO PHYSICS	
205	Medical Biophysics – XV	207	Immunology – XII

FRIDAY 11.12.2015

B.Sc. I Semester INFORMATION TECHNOLOGY	B.Sc. II Semester INFORMATION TECHNOLOGY
208 Web page Design – II	210 Programming in C – IV
B.Sc. VI Semester COMPUTER SCIENCE	B.Sc. V Semester BIO PHYSICS
209 Programming in Visual Basic - XIV	211 Bio Informatics & Structural Biology - XIII

SATURDAY 12.12.2015

B.Sc. I Semester COMPUTER SCIENCE	B.Sc. II Semester COMPUTER SCIENCE
212 Fundamentals of Computer Organization – I	215 Programming in C – III
B.Sc. VI Semester COMPUTER SCIENCE	B.Sc. V Semester INFORMATION TECHNOLOGY
213 Computer Network – XV OR	216 Advance Java - XII
214 Unix Shell Programming - XV	

MONDAY 14.12.2015

B.Sc. I Semester COMPUTER SCIENCE	B.Sc. II Semester COMPUTER SCIENCE
217 Fundamental of Computer Programming– II	219 Data Structures – IV
B.Sc. VI Semester INFORMATION TECHNOLOGY	B.Sc. V Semester INFORMATION TECHNOLOGY
218 Management Information System - XIV	220 Oracle 10g PL/SQL - XIII

TUESDAY 15.12.2015

B.Sc. VI Semester INFORMATION TECHNOLOGY	B.Sc. V Semester COMPUTER SCIENCE
221 Web Development using PHP - XV	222 Software Engineering - XII

WEDNESDAY 16.12.2015

	B.Sc. V Semester COMPUTER SCIENCE
223	Relational Database Management System – XIII OR
224	E-Commerce - XIII

CONTROLLER OF EXAMINATIONS