

# SOLAPUR UNIVERSITY, SOLAPUR

## EXAM OF 2017 SEMESTER PATTERN EXAMINATION

### DRAFT PROGRAM OF M.SC. (BOTANY) SEMESTER – I TO IV EXAMINATION TO BE HELD IN OCT/NOV-2017

- The Candidates at the above examination are requested to be present **FIFTEEN MINUTES** before the time starting of the first paper and **TEN MINUTES** before the time starting of each subsequent paper. Candidates are forbidden to take any book or paper into the Examination Hall.
- The Practical examination will be held after written examination.** The information regarding place, date and time of the Practical Examination will be notified in the Practical Program of the particular subject. Those who fail to present themselves at the Practical Examination on the scheduled date and time will not be examined in Practical. The Practical Programme will be displayed on the notice board of the College/Department.
- The Examination Programme is subject to change. If there is any change in the Examination Programme the University is not responsible for the loss or inconvenience caused to the candidates.
- The external candidates are requested to see their examination seat number as well as place of the examination on the notice board of the University/College at least two days before the date of examination.
- Cellular Phone, Pager, Scientific Calculator, Digital Diary or any means, which can be used for unfair practice, are not allowed in the Examination Hall.
- Important Note:** Code Numbers given in the Bracket are Computer Code of respective Subjects, Students should mention these Code Numbers on Answer Books with Name of the Subject. Also write these Code Numbers on JSR (Junior Supervisor Report) and related documents.

### The Centre and Place of the Examination will be as under:

Sr. No.	Centre Name	College Name
1.	Solapur	Sangmeshwar College

<b>Botany Sem – I (w.e.f. June 2016)</b> (CBCS Pattern-2016)			
Day & Date	Paper No.	Sr. No.	Subject TIME: 10:30 a.m. to 01:00 p.m.
Thursday 16/11/2017	HCT1.1	123	Biology and diversity of fungi, Bacteria, Viruses and Lichens
Saturday 18/11/2017	HCT1.2	124	Biology and diversity of Algae, Bryophytes and Pteridophytes
Tuesday 21/11/2017	HCT1.3	125	Plant Ecology
Thursday 23/11/2017	SCT1.1	126	A) Tools and Techniques in Botany
	SCT1.2	127	OR B) Economic Botany and Biotechnology

<b>Botany Sem – II (New w.e.f. Nov 2016)</b> (CBCS Pattern-2016)			
Day & Date	Paper No.	Sr. No.	Subject TIME: 10:30 a.m. to 01:00 p.m.
Friday 17/11/2017	HCT2.1	128	Biology & Diversity of Gymnosperms & Palaeobotany
Monday 20/11/2017	HCT2.2	129	Taxonomy of Angiosperms
Wednesday 22/11/2017	SCT2.1	130	A) Cell and Molecular Biology of plants
	SCT2.2	131	OR B) Analytical Techniques in Plant Sciences
Monday 27/11/2017	OET	--	[Choose from list] page no.4 & 5

<b>Botany Sem – II (w.e.f. Nov 2015)</b> (CBCS Pattern-2015) (Old up to Oct 2017)			
Day & Date	Paper No.	Sr. No.	Subject TIME: 10:30 a.m. to 01:00 p.m.
Friday 17/11/2017	V	132	Biology & Diversity of Gymnosperms & Palaeobotany (61101)
Monday 20/11/2017	VI	133	Taxonomy of Angiosperms (61102)
Wednesday 22/11/2017	VII	134	Cell & Molecular Biology of Plants (61103)
Friday 24/11/2017	VIII	135	Advances in Plant Pathology (61104)

<b>Botany Sem – III (New w.e.f. June 2017)</b> (CBCS Pattern-2016)			
Day & Date	Paper No.	Sr. No.	Subject TIME: 02:30 p.m. to 05:00 p.m.
Thursday 16/11/2017	HCT3.1	136	Plant Embryology and Palynology
Saturday 18/11/2017	HCT3.2	137	Cytogenetics, Plant breeding and genetic engineering
Tuesday 21/11/2017	SCT3.1	138	A) Advanced Plant Physiology and Biochemistry
	SCT3.2	139	OR B) Environmental Biotechnology
	SCT3.3	140	OR C) Horticultural Practices and Post harvest technology
Saturday 25/11/2017	OET	--	[Choose from list] page no.6 & 7

<b>Botany Sem – III (w.e.f. June 2016)</b> <b>(CBCS Pattern-2015) (Old up to Mar 2018)</b>			
Day & Date	Paper No.	Sr. No.	Subject <b>TIME: 02:30 p.m. to 05:00 p.m.</b>
Thursday 16/11/2017	IX	141	Plant Embryology and Palynolog
Saturday 18/11/2017	X	142	Cytogenetics, Plant Breeding and Genetic Engineering
Tuesday 21/11/2017	XI	143	A) Advances in Plant Metabolism and Biochemistry
		144	B) Horticultural Practices and Post Harvest technology
Saturday 25/11/2017	XII	145	A) Physiology of Plant Growth and Development
		146	B) Analytical Techniques in Plant Sciences

<b>Botany Sem – IV (w.e.f. Nov 2014)</b> <b>(C.G.P.A. Pattern Nov 2014) (Old up to Oct 2017)</b>			
Day & Date	Paper No.	Sr. No.	Subject <b>TIME: 02:30 p.m. to 05:00 p.m.</b>
Friday 17/11/2017	XIII	147	Phytogeography and Conservation Biology (94321)
Monday 20/11/2017	XIV	148	Plant Tissue Culture and Green House Technology and Hydroponics (94322)
Wednesday 22/11/2017	XV	149	Environmental Plant Physiology (94323)
Friday 24/11/2017	XVI	150	Crop Physiology (94324)

<b>Botany Sem – IV (New w.e.f. Nov 2016)</b> <b>(CBCS Pattern-2015)</b>			
Day & Date	Paper No.	Sr. No.	Subject <b>TIME: 02:30 p.m. to 05:00 p.m.</b>
Friday 17/11/2017	XIII	151	Phytogeography and Conservation Biology
Monday 20/11/2017	XIV	152	Plant Tissue Culture and Green House Technology and Hydroponics
Wednesday 22/11/2017	XV	153	A) Environmental Plant Physiology
		154	B) Stress Biology
Friday 24/11/2017	XVI	155	A) Crop Physiology
		156	B) Research Methodology

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Ref No.: SUS/EXAM/TIME-TABLE/2016-17/2248

Date : 15/09/2017

Sd/-  
Director  
Board of Examinations and Evaluation

<b>SOLAPUR UNIVERSITY, SOLAPUR</b>					
[ Choose any one open elective from the list SEM – II ]					
SEM – II Date : 27/11/2017 Time : 10:30 am to 01:00 pm					
Sr. No.	Course Name	Branch Name	Sem	Paper Code	Subject Name
1	M.Sc.	Electronics Science	II	21782-05	Fundamentals of Electronics
2			II	21782-13	Power Supplies
3		Physics (Applied Electronics)	II	21772-13	Elements of Electronics
4			II	21782-06	Electronic Instrumentation
5		Physics (Material Sciences)	II		Nanomaterials: Synthesis, properties and Applications
6			II	217152-06	Conventional & Non Conventional Energy
7		Chemistry 6 Branch same paper	II	21712-05	Instrumental Methods of Analysis
8			II	21712-06	Medicinal Chemistry-I
9		Environmental Sciences	II	217142-05	Analytical Techniques and Instrumentation
10			II	217142-06	Oceanography and Marine Biology
11		Mathematics	II	217102-06	Fundamentals in Mathematics
12			II	217102-07	Vedic Mathematics
13		Statistics	II	217112-06	Statistical Methods
14			II	217112-07	Mathematical Statistics
15		Geoinformatics	II	217132-05	Climatology
16			II	217132-06	Cartography and Map Analysis
17		Applied Geology	II	217122-05	Natural Resource Management
18			II	217122-06	Watershed Management
19		Computer Science	II	21792-05	Office Automation
20			II	21792-06	Linux Operating System
21		Zoology	II	217162-05	Computational Biology
22			II	217162-06	Research Methodology and 4 Intellectual Property Right
23		Genetics	II	217172-05	Plant Breeding and Tissue Culture
24			II	217172-06	Computational Structure Biology and Drug Designing
25		Biotechnology	II	217182-05	Immunology and Immuno Techniques
26			II	217182-06	Agriculture Science and Seed Technology
27		Bioinformatics	II	217192-05	Programming in Object Oriented Languages
28			II	217192-06	Cancer Genetics and Stem Cell Research
29		Electronics	II	217202-05	Signals and Systems
30			II	217202-06	Cellular and Mobile Communication
31		Botany	II	217212-05	Advances in Plant Pathology
32			II	217212-06	Research Methodology
33		Agrochemicals and Pest Management	II	217242-05	Biotechnological Aspects in Plant Protection-I
34			II	217242-06	Microbial Genetics and Plant Breeding
35		Nanotechnology	II	217232-05	Nano-Medicine
36			II	217232-06	Green Manufacturing Technology
37		Microbiology	II	217222-05	Bioinformatics & Biostatistics
38			II	217222-06	Microbial Nanotechnology
39		Geography	II	301151205	Regional Geography of India
40			II	301151206	Geography of Maharashtra

41	<b>M.A.</b>	<b>Economics(Campus)</b>	II	3011205	Indian Economy
42			II	3011206	Financial Markets and Institutions
43		<b>History and Archaeology</b>	II	3014205	Indian Tourism
44			II	3014206	Ancient Deccan
45		<b>Rural Development</b>	II	3012205	Social Marketing
46			II	3012206	Writing Communication Skill and Current Affairs
47			II	3012210	Future Sustainable Energy Challenges
48		<b>Mass Communication</b>	II	3013205	Writing and Communication Skills
49			II	3013206	Environmental Communication
50	<b>M.COM.</b>	<b>M.Com</b>	II	406-205	Accounting Practices
51			II	406-206	Entrepreneurship
52	<b>SCI</b>	<b>M.C.A</b>	II	218206	Office Automation
53			II	218207	Linux Operating System

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[ Choose any one open elective from the list SEM – III ]

SEM – III Date : 25/11/2017 TIME: 02:30 p.m. to 05:00 p.m

Sr. No.	Course Name	Branch Name	Sem	Paper Code	Subject Name
1	M.Sc.	Electronic Science	III	21783-09	Antenna & Wave Propagation
2			III	21783-10	Communication & Digital Electronics
3		Physics (Applied Electronics)	III	21773-09	Energy Harvesting Devices
4			III	21773-10	Introduction to MATLAB & LabVIEW
5		Physics (Materials Sciences)	III	217153-10	Introduction to Nanoscience
6			III	217153-11	Nuclear Radiations & Effects
7		Organic Chemistry	III	21713-08	Drugs and Heterocycles
8			III	21763-11	Unit operations of chemical Engineering
9		Environmental Sciences	III	217123-10	Research methodology
10			III	217143-11	Meteorology
11		Mathematics	III	217103-08	Numerical Techniques
12			III	217103-09	Optimization Techniques
13		Statistics	III	217113-08	Applied Statistics
14			III	217113-09	Modeling and Simulation
15		Geoinformatics	III	217133-10	Introduction to Statistical Methods
16			III	217133-11	Urban Geography
17		Applied Geology	III	217123-10	Research Methodology
18			III	217123-11	Geoarchaeology
19		Computer Science	III	21793-10	Procedural Programming Language
20			III	21793-11	Internet of Things
21		Zoology	III	217163-10	Wild Life and Conservation Biology
22			III	217163-11	Ecology and Ethology
23		Genetics	III	217173-10	Industrial Biotechnology and Bioinformatics
24			III	217173-11	Medical Biotechnology and Bionanotechnology
25		Biotechnology	III	217183-10	Advanced Pharmaceuticals
26			III	217183-11	Computational Structure Biology and Drug Designing
27		Bioinformatics	III	217193-09	Advanced Molecular biology
28			III	217193-10	Advanced Pharmaceutics
29		Electronics	III	217203-09	Medical Instrumentation
30			III	217203-10	Programming with Verilog HDL
31			III	217203-12	Digital Communication
32			III	217203-14	CMOS Analog Circuit Design
33		Botany	III	217213-08	Plant growth and development
34			III	217213-11	Herbal technology
35		Agrochemicals and Pest Management	III	217243-10	Analysis of Agrochemicals
36			III	217243-11	Biotechnological Aspects in Plant Protection-II
37		Nanotechnology	III	21743-09	Organometallic Chemistry
38			III	217233-11	Computational Structural Biology and Drug design
39		Microbiology	III	217223-08	Agricultural Microbiology
40			III	217223-09	Environment and Waste Management Technology
41	M.Sc.	Geography	III	301152308	Cultural Geography
42			III	301152309	Commercial Geography
43		Industrial Chemistry	III	21733-09	A) Advanced Topics in Industrial Chemistry -II

44			III	21733-10	B) Advanced Organic Chemistry-I
45		<b>Polymer Chemistry</b>	III	21723-09	Spectral and Instrumental Analysis of Polymers
46			III	21763-11	Unit operations of chemical Engineering
47		<b>Inorganic Chemistry</b>	III	21743-08	Environmental Chemistry
48			III	21743-09	Organometallic Chemistry
49		<b>Physical Chemistry</b>	III	21753-08	Solid State and Nuclear Chemistry
50			III	21753-09	Radiation and Photochemistry
51		<b>Analytical Chemistry</b>	III	21763-10	Analytical Spectroscopy
52			III	21763-11	Unit operations of Chemical Engineering
53	<b>M.A.</b>	<b>Economics (Campus)</b>	III	3011305	Human Development
54			III	3011306	Economics of Transport
55		<b>A.I.H.C. &amp; A.</b>	III	3014305	Introduction to Museology
56			III	3014306	Political Ideas and Institutions in Ancient India
57		<b>Rural Development</b>	III	3011305	Human Development: Concepts and Measurements
58			III	3012306	Social Dimensions of Marginalised communities
59			III	3012310	Future Sustainable Energy Challenges
60		<b>Mass Communication</b>	III	3013305	Film Studies
61			III	3013306	Writing for Media
62	<b>M.COM.</b>	<b>M.Com</b>	III	406-305	Final Account
63			III	406-306	Office Management
64	<b>SCI</b>	<b>M.C.A</b>	III	218310	Fundamentals of Web Designing
65			III	21793-11	Internet of Things

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