



## SHIVAJI UNIVERSITY, KOLHAPUR

Draft Programme Circular No. 866 Exam of March/April 2020

Faculty: Science and Technology

Course: B.Sc Examination (Course Code 286) part-II & III Sem-III to VI Examination to be held in March/April 2020.

INSTRUCTIONS: Common Instruction as per Circular No. SU/On Exam/29-01/02/2020 dated And also available on University Website [WWW.unishivaji.ac.in](http://WWW.unishivaji.ac.in)

1	C.B.C.S. Pattern Sem – I syllabus only for fresh (Regular) students from October, 2018 Last chance for old syllabus is upto March 2019
2	C.B.C.S. Pattern Sem – II syllabus only for fresh (Regular) students from March, 2019 Last chance for old syllabus is upto October 2019

The Centers and Places of the Examination are as follows.

### KOLHAPUR DISTRICT

Sr. No.	Centre Name	Centre Code	College Abbreviation	College Code	Place
1	KOLHAPUR	03	GKG	260	Gopal Krishna Gokhale College
			NCK	30	The New College (Shivaji Peth)
			R	31	Rajaram College
			SHAHU	32	Rajarshri Chh. Shahu College (Sadar Bazar)
			V	01	Vivekanand College (Tarabai Park)
			SSCM	34	Shri. Shahaji Chhatrapati Mahavidyalaya
		MMK	28	Mahaveer Mahavidyalaya	
2	ICHALKARANJI	09	ICH	38	Dattajirao Kadam Arts, Science & Commerce College
3	JAYSINGPUR	04	J	43	Jayssingpur College
4	GADHINGLAJ	13	GAD	03	Shivraj College of Arts & Commerce & D.S. Kadam Science College
			GCG	47	Dr. Ghali College, Gadhinglaj
5	ARJUNNAGAR	16	DA	48	Devchand College
6	GARGOTI	17	KHCG	49	Karmaveer Hire Arts, Science, Commerce & Education College
7	WARANANAGAR	10	W	50	Y C Warana Mahavidyalaya Warananagar
8	KURUKALI	18	BMK	51	Bhogawati Mahavidyalaya
9	KURUNDWAD	19	KWD	52	Sahakarbhushan S.K. Patil Mahavidyalaya
10	AJARA	20	AMA	53	Ajara Mahavidyalaya
11	PETH-VADGAON	21	VUMP	55	Shri Vijaysingh Yadav Arts & Science College
12	HALKARNI	23	HAL	54	Yashwantrao Chavan Mahavidyalaya
13	BIDRI	27	DMB	61	Doodh Sakhar Mahavidyalaya
14	MALKAPUR	33	MALKA	66	Prof. Dr. N.D. Patil Arts, Commerce & Science College
15	TISANGI	34	TISGI	67	M.H. Shinde Mahavidyalaya
16	CHANDGAD	37	CHAND	70	Shri. R.B. Madkholkar Mahavidyalaya
17	KALE	97	KALE	250	Vithalrao Patil Mahavidyalaya(will be Communicated later)
18	ASURLE PORLE	502	ASURLE PROLE	377	Arts, Commerce and Science College
19	KARVE	723	KARVE	427	V.K.Chavan Patil Arts, Comm and Science College
20	GAGANBAWADA	725	ANNDI	429	Anandi Arts, Commerce and Science College
21	SOLANKUR	682	YPVMS	436	Yashwantrao Patil Vidnyan Mahavidyalaya
22	KASABA BEED	963	BEED	469	Arts, Commerce and Science College
23	MURGUD	28	MUR	62	Sadashivrao Mandlik Mahavidyalaya
24	SARUD	22	SRD	56	Shri. Shiv Shahu Mahavidyalaya
25	KAGAL	26	DRM	60	D.R. Mane Arts and Commerce College
26	KOTOLI	39	MKOT	72	Shripatrao Chougule Arts and Science College
27	HATKANANGALE	38	HAT	71	Shri Annasaheb Dange Arts Comm & Science College
28	KOWAD	14	KOWAD	02	Arts Commerce & Science College
29	YELUR	-----	SHOKOR	613	Shri Shobhatai Kore Warana Mahavidyalaya
30	SARVADE	36	PARMOR	611	Parvatibai More Mahila Maha Arts Comm & Science
31	PANORE	984	PANORE	512	Lahu Bala Paritkar Arts Comm & Science
32	Mooje Kapashi	-----	MAGASC	618	Majaor Anandrao Ghatge A S & Sci. College Mooje Kapashi.
33	WAKARE	1084	WAKARE	1084	Datta Dwaraka Mahavidyalaya, Wakare
34	HUPARI	632	HUPARI	632	Arts Commerce and Science College, Hupari
35	MANJARE	636	MANJARE	636	Late Banaee Chougale Arts, Comm and Sci college Manjare

**SANGLI DISTRICT**

Sr. No.	Centre Name	Centre Code	College Abbreviation	College Code	Place
1	SANGLI	11	ASCS	73	Dr. Patangrao Kadam Mahavidyalaya Sangalwadi
			KWS	78	Smt.Kasturbai Walchand College of Arts and Science
			WDN	80	Willington College, Sangli.
2	MIRAJ	40	M	83	Shikshan Maharshi Dr. Bapuji Salunkhe Mahavidyalaya
			MIRAJ	84	Miraj Mahavidyalaya Miraj
3	VITA	41	BAL	86	Balwant College Vita
			HPMV	261	Adarsha College Vita
4	URUN-ISLAMPUR	42	KMU	88	Smt.Kusumtai R Patil Kanya Mahavidyalaya
			U	90	Karmveer Bhaurao Patil College
5	TASGAON	43	T	92	Padm. Dr. Vasantraodada Patil Mahavidyalaya Tasgaon
6	RAMANANDNAGAR	44	RAM	93	Arts, Science and Commerce College Ramanandnagar
7	JATH	45	RAJE	94	Raje Ramrao Mahavidyalaya Jath
8	KAVATE MAHANKAL	46	KVT	95	Padmbhushan Vasantraodada Patil Mahavidyalaya
9	ATPADI	50	ATP	283	Shrimant Babasaheb Deshmukh Mahavidyalaya Atpadi
10	SHIRALA	51	SRL	100	Vishwasrao Naik Arts, Commerce and Baba Naik Science Mahavidyalaya
11	KADEGAON	52	KMK	101	BV's Mathoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya Kadegaon
12	SAVALAJ	53	SAV	102	Shri. Raosaheb Ramrao Patil Mahavidyalaya
13	WALWE	54	WALWE	103	Krantisinh Nana Patil College Walwe
14	PALUS	55	PALUS	104	Arts, Commerce & Science College
15	CHIKHALI	57	CHIK	106	Deshbhakt A.B. Naik Arts and Science College, Chikhali.
16	UMADI	342	UMADI	315	Arts, Commerce and Science College
17	SALGARE	946	VDS	468	Vitthal (Daji) Commerce and Science College Salgare
18	BHILAWADI	56	BHIL	105	Babasaheb Chitale College, bhilawadi.
19	KUNDAL	-----	KUNDL	107	Krantiagrani G D Lad Maha Kundal
20	DIGHANCHI	-----	ISHMOR	612	IshwarraoMore-Patil Arts,Comm & Sci Mahila Maha
21	KAVATE MAHANKAL	-----	MMKVT	615	Mahila Maha Arts, Commerce and Science College
22	SANKHA	-----	RKP	616	Shri R K Patil Arts, Commerce and Science College
23	JADRABOBLAD	-----	JACSM	617	Shri Gajanan Arts, Commerce and Science College
24	PETH	-----	VCS	620	Shri Venketheshwara College of Science
25	URUN-ISLAMPUR	-----	YCU	91	Y C Arts and Science College

**SATARA DISTRICT**

Sr. No.	Centre Name	Centre Code	College Abbreviation	College Code	Place
1	SATARA	08	YCIS	149	Y.C. Institute of Science College Satara
			LAL	145	Lal Bahadur Shastri College Satara
2	PHALTAN	73	MUD	151	Mudhoji College Phaltan
3	KARAD	02	SGM	156	Sadguru gadge maharaj College.Karad
			YCSK	158	Y.C. College of Science Karad
4	KHATAV	74	SRK	152	Shahajiraje Mahavidyalaya
5	PATAN	75	BD	159	Balasaheb Desai College Patan
			VDDS	490	Smt. Vijayadevi Desai Senior College
6	WAI	77	WAI	161	Kisan Veer Mahavidyalaya
			MMW	376	Bhimrao Shinde Arts, Commerce and Science Mahila Mahavidyalaya
7	KOREGAON	78	KOR	162	D.P. Bhosale College
8	DAHIWADI	80	DAH	164	Dahiwadi College Dahiwadi
9	LONAND	81	LON	165	Sharadchandra Pawar College
10	RETHARE (BK)	84	KMR	168	Krishna mahavidyalaya
11	MEDHA	87	ACMED	170	Amdar Shashikant Shinde Mahavidyalaya
12	RAHIMATPUR	88	RAHI	172	Sardar Babasaheb Mane Mahavidyala Rahimatpur
13	AUNDH	89	AUNDH	173	Raja Shripatrao Bhagawantrao Mahavidyalaya
14	MHASWAD	92	MSWD	176	Shrimant Bhaiyasaheb Rajemane College
15	KHANDALA	462	RMK	353	Sushila Shankarrao Gadhave Mahavidyalaya
16	PACHGANI	83	PACH	167	Smt. Minalben Metha College of Arts and Commerce
17	MAYANI	86	MAYA	171	Arts and Commerce Mahavidyalaya
18	VADUJ	-----	WADUS	175	Arts and Commerce College, Vaduj
19	DEUR		DEUR		Prof. Sambhajirao Kadam Mahavidyalaya, Deur

**B. Sc Part – II Semester – III (University Examination)**

Day & Date	Subject Code No.	Time: 12:00 Noon to 02:00 p.m	Subject Code No.	Time: 03:00 p.m to 05:00 p.m
Thursday 28/05/2020	<b>63603</b> <b>77704</b>	<b>Chemistry Paper - V</b> (Organic Chemistry )	<b>63611</b> <b>77712</b>	<b>Computer Science Paper- V</b> (Fundamentals of Software Engineering)
Friday 29/04/2020	<b>63603</b> <b>77704</b>	<b>Chemistry Paper - VI</b> (Analytical Chemistry)	<b>63611</b> <b>77712</b>	<b>Computer Science Paper- VI</b> (Object Oriented Programming Using C++)
Saturday 30/05/2020	<b>63602</b> <b>77703</b>	<b>Physics Paper- V</b> (General Physics, Sound and Acoustics)	<b>63613</b> <b>77714</b>	<b>Plant Protection Paper- I</b> (Major Crops, Methods of Integrated Plant Protection)
			<b>63614</b> <b>77715</b>	<b>Fisheries Paper – I</b> (Fishery Biology – I )
			<b>63615</b> <b>77717</b>	<b>Biochemistry Paper- I (IDS)</b> (Biomolecules)
			<b>63617</b> <b>77719</b>	<b>Industrial Microbiology Paper – V</b> (Industrial Production of Fermented foods)
			<b>63618</b> <b>77720</b>	<b>Biotechnology (Optional/ vocational) Paper- V</b> (Biophysics & Enzyme Technology)
			<b>63619</b> <b>77721</b>	<b>Food Science &amp; Quality Control Paper- V</b> (Food Preservation)
Monday 01/06/2020	<b>63602</b> <b>77703</b>	<b>Physics Paper- VI (New)</b> (Electronics and Semi Conductor Devices)	<b>63613</b> <b>77714</b>	<b>Plant Protection Paper- II</b> (Introduction to Weeds and Non- In seeds Pests)
			<b>63614</b> <b>77715</b>	<b>Fisheries Paper - II</b> (Fish Physiology) – II
			<b>63615</b> <b>77717</b>	<b>Biochemistry Paper – II (IDS)</b> (Metabolism and Nutrition)
			<b>63617</b> <b>77719</b>	<b>Industrial Microbiology Paper – VI</b> (Quality Control of Food Production)
			<b>63618</b> <b>77720</b>	<b>Biotechnology (Opt / Vocational Paper-VI )</b> (Molecular biology)
			<b>63619</b> <b>77721</b>	<b>Food Science &amp; Quality Control Paper- VI</b> (Fruits and Vegetable processing)
Tuesday 02/06/2020	<b>63605</b> <b>77706</b>	<b>Zoology Paper- V</b> (Animal Diversity- III)	<b>63612</b> <b>77723</b>	<b>Astro Physics Paper- I</b> (Fundamentals of Astronomy)
	<b>63606</b> <b>77707</b>	<b>Statistics Paper – V</b> (probability Distributions) – I	<b>63616</b> <b>77718</b>	<b>Seed Technology Paper- V</b> (Hybrid Seed Production)
			<b>63620</b> <b>77722</b>	<b>Pollution Paper- I</b> (Ecology and Pollution)
Wednesday 03/06/2020	<b>63605</b> <b>77706</b>	<b>Zoology Paper- VI</b> (Genetics & Biological Chemistry)	<b>63612</b> <b>77723</b>	<b>Astro Physics Paper- II</b> (Fundamentals of Astrophysics)
	<b>63606</b> <b>77707</b>	<b>Statistics Paper- VI</b> (Statistical Methods – I )	<b>63616</b> <b>77718</b>	<b>Seed Technology Paper- VI</b> (Vegetable Seed Production)
			<b>63620</b> <b>77722</b>	<b>Pollution Paper- II</b> (Water Pollution –I )
Thursday 04/06/2020	<b>63604</b> <b>77705</b>	<b>Botany Paper- V</b> (Algae, Fungi, Bryophytes & Industrial Applications)	<b>63601</b> <b>77702</b>	<b>Mathematics Paper- V</b> (Differential Calculus )
Friday 05/06/2020	<b>63604</b> <b>77705</b>	<b>Botany Paper- VI</b> (Plants Physiology Ecology & Horticulture)	<b>63601</b> <b>77702</b>	<b>Mathematics Paper- VI</b> (Differential Equations )
Monday 08/06/2020	<b>63609</b> <b>77710</b>	<b>Electronics Paper- V</b> (Digital Electronics)	<b>63607</b> <b>77708</b>	<b>Geology Paper- V</b> (Mineralogy and Optics)
	<b>63621</b> <b>77716</b>	<b>Biochemistry Optional Paper – V</b> (Bioenergetics & Metabolism-I )	<b>63608</b> <b>77709</b>	<b>Microbiology Paper- V</b> (Cytology ,Physiology and Metabolism)
			<b>70532</b> <b>77713</b>	<b>Astro Physics &amp; Space Sci. Paper – V</b> (Celestial Mechanics)
			<b>70533</b> <b>77724</b>	<b>Nano Technology Paper – V</b> (Nano Physics)
Tuesday 09/06/2020	<b>63609</b> <b>77710</b>	<b>Electronics Paper- VI</b> (Introduction to Microprocessor)	<b>63607</b> <b>77708</b>	<b>Geology Paper- VI</b> (Igneous Petrology)
	<b>63621</b> <b>77716</b>	<b>Biochemistry Optional Paper- VI</b> (Nutrition & Metabolism - II)	<b>63608</b> <b>77709</b>	<b>Microbiology Paper- VI</b> (Microbial genetic)
			<b>70532</b> <b>77713</b>	<b>Astro Physics &amp; Space Sci. Paper – VI</b> (Introductory Quantum Mechanics)
			<b>70533</b> <b>77724</b>	<b>Nano Technology Paper – VI</b> (Nano-chemistry)

## B. Sc Part – II Semester – IV (University Examination)

Day & Date	Subject Code No.	Time: 12:00 Noon to 02:00 p.m	Subject Code No.	Time: 03:00 p.m to 05:00 p.m
<u>Sunday</u> 10/05/2020	67078 78971	<b>Environmental Studies</b> ( Time-11.00Am to 2.00 Pm)		
<u>Friday</u> 15/05/2020	63703 78958	<b>Chemistry Paper – VII</b> (Physical Chemistry)	63711 78966	<b>Computer Science Paper – VII</b> (Relational Database Management – Systems)
<u>Saturday</u> 16/05/2020	63703 78958	<b>Chemistry Paper – VIII</b> (Inorganic Chemistry )	63711 78966	<b>Computer Science Paper – VIII</b> (Advance .Object Oriented Programming Using C++)
<u>Monday</u> 18/05/2020	63702 78957	<b>Physics Paper – VII</b> (Optics and Lasers)	63714 78969 63715 78972 63716 63717 78974 63719 78976 63720 78977	<b>Plant Protection Paper- III</b> (Crop Diseases and Their Management) <b>Biochemistry Paper – III (IDS)</b> (Biochemical Techniques & Bioinformatics) <b>Fisheries Paper – III</b> (Inland Fisheries) <b>Food Science &amp; Quality Control Paper - VII</b> (Quality Control of food products) <b>Industrial Microbiology Paper – VII</b> (Fermentation Technology ) <b>Biotechnology (Optional/Vocational) Paper VII</b> (Immunology)
<u>Tuesday</u> 19/05/2020	63702 78957	<b>Physics Paper – VIII</b> (Relativity and Modern Physics)	63714 78969 63715 78972 63716 63717 78974 63719 78976 63720 78977	<b>Plant Protection Paper – IV</b> (Insect Pest and their Management) <b>Biochemistry Paper – IV (IDS)</b> (Molecular Biology & Biotechnology) <b>Fisheries Paper- IV</b> (Aquaculture) <b>Food Science &amp; Quality Control Paper – VIII</b> (Cereals and Pulses Technology) <b>Industrial Microbiology Paper- VIII</b> (Industrial Production of Biofertilisers) <b>Biotechnology (Opt/ voc) Paper- VIII</b> (R-DNA technology)
<u>Wednesday</u> 20/05/2020	63705 78960 63706 78961	<b>Zoology Paper – VII</b> (Animal Diversity - IV) <b>Statistics Paper – VII</b> (Probability Distributions – II )	63712 78967 63713 78968 63718 78975	<b>Seed Technology Paper – VII</b> (Seed Testing) <b>Astro Physics Paper – III</b> (Galaxies and Universe) <b>Pollution Paper – III</b> (Air Pollution)
<u>Thursday</u> 21/05/2020	63705 78960 63706 78961	<b>Zoology Paper – VIII</b> (Histology and Physiology) <b>Statistics Paper- VIII</b> (Statistical Methods ) – II	63712 78967 63713 78968 63718 78975	<b>Seed Technology Paper – VIII</b> (Seed Quality Control) <b>Astro Physics Paper – IV</b> (Cosmic Electrodynamics) <b>Pollution Paper – IV</b> (Water Pollution – II )
<u>Friday</u> 22/05/2020	63704 78959	<b>Botany Paper- VII</b> (Pteridophytes Gymnosperms, Angiosperms & Anatomy)	63701 78956	<b>Mathematics Paper- VII</b> (Integral Calculus)
<u>Saturday</u> 23/05/2020	63704 78959	<b>Botany Paper- VIII</b> (Cytogenesis & Vitalization of Plant Resources)	63701 78956	<b>Mathematics Paper- VIII</b> (Discrete Mathematics)
<u>Tuesday</u> 26/05/2020	63709 78964 63622 78970	<b>Electronics Paper- VII</b> (Linear and Wave Shaping Circuits) <b>Bio-Chemistry (Opt.) Paper- VII</b> (Molecular Biology)	63707 78962 63708 78963 71054 79303 71055 79304	<b>Geology Paper- VII</b> (Structural Geology Photo geology and Hydrogeology ) <b>Microbiology Paper- VII</b> (Fundamentals of industrial Microbiology Biostatistics and Bioinformatics) <b>Astro Physics &amp; Space Sci. Paper – VII</b> (Cosmic Electrodynamics) <b>Nano Technology Paper – VII</b> ( Introduction to Nanoelectronics)
<u>Wednesday</u> 27/05/2020	63709 78964 63622 78970	<b>Electronics Paper- VIII</b> (Microprocessor interfacing and Microcontroller 8051) <b>Bio-Chemistry (Opt) Paper- VIII</b> {Biotechnology and Bioinformatics)	63707 78962 63708 78963 71054 79303 71055 79304	<b>Geology Paper- VIII</b> (Sedimentary and Metamorphic Petrology) <b>Microbiology Paper- VIII</b> Basics of Immunology and Medical Microbiology) <b>Astro Physics &amp; Space Sci. Paper – VIII</b> (Thermal Physics) <b>Nano Technology Paper – VIII</b> (Nanobiotechnology)

**B. Sc Part – III Semester – V (University Examination)**

<b>Day &amp; Date</b>	<b>Subject Code No.</b>	<b>Time: 12.00 to 2.00 pm</b>
<b>Tuesday</b> 21/04/2020	<b>65802</b>	<b>1. Physics Paper – IX</b> (Mathematical and Statistical Physics)
	<b>65823</b>	<b>2. Chemistry Paper – IX</b> (Physical Chemistry)
	<b>65836</b>	<b>3. Botany Paper – IX</b> (Under Restructured Course ) (Biology of Non- Vascular Plants and Palaeobotany)
	<b>65848</b>	<b>4. Zoology Paper- IX</b> (Under Restructured Course ) (Functional Anatomy of Non Chordates)
	<b>65869</b>	<b>5. Mathematics Paper – IX</b> (Real Analysis)
	<b>65858</b>	<b>6. Statistics Paper – IX</b> (Probability Distributions)
	<b>65913</b>	<b>7. Geology Paper – IX</b> (Dynamics of Earth)
	<b>65891</b>	<b>8. Microbiology Paper – IX</b> (Virology)
	<b>65812</b>	<b>9. Electronics Paper– IX</b> (Linear Integrated Circuits)
	<b>65902</b>	<b>10. Computer Science Paper – IX</b> (Computer Networking)
	<b>66011</b>	<b>11. Food Science &amp; Quality Control Paper – IX</b> (Fermentation Technology)
	<b>66034</b>	<b>12. Industrial Microbiology Paper- – IX</b> (Environmental Microbiology)
	<b>66056</b>	<b>13. Bio-Technology Paper- – IX (Optional /Vocational)</b> (Biochemical Techniques)
	<b>65960</b>	<b>14. Fisheries Paper- V</b> (Fishery Biology – II Aquaculture )
	<b>66587</b>	<b>15. Bio-Chemistry Paper - IX</b> (BHC-501 - Molecular Biology)

**B. Sc Part – III Semester – V (University Examination)**

Day & Date	Subject Code No.	Time: 12.00 p.m to 2:00 p.m
<u>Wednesday</u> 22/04/2020	<b>65803</b>	1. <b>Physics Paper – X</b> (Quantum Mechanics)
	<b>65824</b>	2. <b>Chemistry Paper – X</b> (Inorganic Chemistry)
	<b>65837</b>	3. <b>Botany Paper – X</b> (Genetics and Analytical Techniques in Plant Science )
	<b>65849</b>	4. <b>Zoology Paper- X</b> (Biostatistics Bio-informatics and Medical Zoology)
	<b>65870</b>	5. <b>Mathematics Paper – X</b> (Modern Algebra)
	<b>65859</b>	6. <b>Statistics Paper – X</b> (Statistical Inference) – I
	<b>65914</b>	7. <b>Geology Paper – X</b> (Stratigraphy and Paleontology)
	<b>65892</b>	8. <b>Microbiology Paper – X</b> (Immunology & Serology)
	<b>65813</b>	9. <b>Electronics Paper- X</b> (Communication Systems – I)
	<b>65903</b>	10. <b>Computer Science Paper- X</b> (Visual Programming – Using C#)
	<b>66012</b>	11. <b>Food Science &amp; Quality Control Paper – X</b> (Dairy Technology)
	<b>66035</b>	12. <b>Industrial Microbiology Paper- X</b> (Basic Techniques of Biotechnology)
	<b>66057</b>	13. <b>Bio-Technology Paper- X (Opt/Voc)</b> (Animal Cell Culture)
	<b>65961</b>	14. <b>Fisheries Paper- VI</b> (Fish Physiology – II, Biostatistics and Bioinformatics)
	<b>66588</b>	15. <b>Bio-Chemistry</b> (BHC-502-Cell Biology)

**B. Sc Part – III Semester – V (University Examination)**

<b>Day &amp; Date</b>	<b>Subject Code No.</b>	<b>Time: 12:00p.m to 02:00 p.m</b>
<u>Thursday</u> <u>23/04/2020</u>	<b>65804</b>	<b>1. Physics Paper – XI</b> (Classical Mechanics)
	<b>65825</b>	<b>2. Chemistry Paper – XI</b> (Organic Chemistry)
	<b>65838</b>	<b>3. Botany Paper – XI</b> (Fundamentals of Plant Physiology and Ecology)
	<b>65850</b>	<b>4. Zoology Paper – XI</b> (Molecular, Biology Biotechnology and Biotechniques)
	<b>65871</b>	<b>5. Mathematics Paper- XI</b> (Partial Differential Equations)
	<b>65860</b>	<b>6. Statistics Paper – XI</b> (Designs of Experiments)
	<b>65915</b>	<b>7. Geology Paper – XI</b> (Economic Geology)
	<b>65893</b>	<b>8. Microbiology Paper- XI</b> (Food & Industrial Microbiology)
	<b>65814</b>	<b>9. Electronics Paper – XI</b> (8051 Microcontroller Interfacing and Embedded C )
	<b>65904</b>	<b>10. Computer Science Paper – XI</b> (Linux Operating System)
	<b>66013</b>	<b>11. Food Science Paper – XI</b> (Technology of Bakery and Confectionary )
	<b>66036</b>	<b>12. Industrial Microbiology Paper- XI</b> (Quality Assurance in Industrial Products)
	<b>66058</b>	<b>13. Bio-Technology Paper – XI (Optional /Vocational )</b> (Bioprocess Engineering)
	<b>65948</b>	<b>14. Plant-Protection Paper – V</b> (Plant Pathogens and their Management)
	<b>65874</b>	<b>15. Pollution Paper – V</b> (Biomedical Aspects of Pollution)
	<b>65936</b>	<b>16. Seed Technology Paper – IX</b> (Seed Pathology)
	<b>66589</b>	<b>17. Bio-Chemistry</b> (BHC-503 – Bio membrane Transport and Cytoskeleton )

**B. Sc Part – III Semester – V (University Examination)**

Day & Date	Subject Code No.	Time: 12:00p.m to 02:00 p.m
<u>Friday</u> 24/04/2020	65805	1. <b>Physics Paper – XII</b> (Atomic and Molecular Spectra Astronomy, Astrophysics)
	65826	2. <b>Chemistry Paper – XII</b> (Industrial Chemistry)
	65839	3. <b>Botany Paper – XII</b> (Plant Biochemistry)
	65851	4. <b>Zoology Paper – XII</b> (Endocrinology, Environmental Biology and Toxicology)
	65873	5. <b>Mathamatic's Paper- XII</b> (Numerical Methods – I )
	65861	6. <b>Statistics Paper – XII</b> (Operations Research)
	65916	7. <b>Geology Paper – XII</b> (Geomorphology, and Remote Sensing)
	65894	8. <b>Microbiology Paper – XII</b> (Agricultural Microbiology )
	65815	9. <b>Electronics Paper – XII</b> (Power Electronic Devices and Applications)
	65905	10. <b>Computer Science Paper – XII</b> (PHP and My SQL)
	66014	11. <b>Food Science &amp; Quality Control Paper- XII</b> (Food quality Control & Waste Management)
	66037	12. <b>Industrial Microbiology Paper – XII</b> (Microbial Productions of Metabolites and bio insecticides)
	66059	13. <b>Bio-Technology Paper – XII (Optional /Vocational)</b> (Fermentation Technology)
	65949	14. <b>Plant- Protection Paper- VI</b> (Plant insect Pests and their Management)
	65875	15. <b>Pollution Paper- VI</b> (Pollution and Society)
	65937	16. <b>Seed Technology Paper – X</b> (Seed Entomology)
	66590	17. <b>Bio-Chemistry</b> (Bio-504 Bio-Chemical Techniques)
<u>Monday</u> 27/04/2020	65872	1. <b>English (Compulsory)</b> (English For Communication)



**B. Sc Part – III Semester – VI (University Examination)**

Day & Date	Subject Code No.	Time: 12:00p.m to 02:00 p.m
<u>Wednesday</u> 15/04/2020	<b>65807</b>	<b>1. Physics Paper - XIII</b> (Nuclear and Particle Physics)
	<b>65830</b>	<b>2. Chemistry Paper – XIII</b> (Physical Chemistry)
	<b>65842</b>	<b>3. Botany Paper – XIII</b> (Biology of Vascular Plants)
	<b>65853</b>	<b>4. Zoology Paper – XIII</b> (Comparative Anatomy of Vertebrates )
	<b>65879</b>	<b>5. Mathematics Paper – XIII</b> (Metric Spaces)
	<b>65864</b>	<b>6. Statistics Paper – XIII</b> (Probability Theory)
	<b>65919</b>	<b>7. Geology Paper – XIII</b> (Proterozoic Stratigraphy of India)
	<b>65897</b>	<b>8. Microbiology Paper – XIII</b> (Microbial Genetics)
	<b>65818</b>	<b>9. Electronics Paper- XIII</b> (Industrial Processes control and PLC Programming)
	<b>65908</b>	<b>10. Computer Science Paper - XIII</b> (Network Technology and Windows Sever 2008)
	<b>66017</b>	<b>11. Food Science &amp; Quality Control Paper – XIII</b> (Food Bio-Technology)
	<b>66040</b>	<b>12. Industrial Microbiology Paper - XIII</b> (Environmental Pollution and Control)
	<b>66062</b>	<b>13. Bio-Technology Paper – XIII (Optional /Vocational)</b> (Plant Bio-Technology)
	<b>65969</b>	<b>14. Fisheries Paper- VII</b> (Marine Biology and Fisheries)
	<b>66592</b>	<b>15. Bio-Chemistry Paper – XIII</b> ( Neurochemistry)

**B. Sc Part – III Semester – VI (University Examination)**

Day & Date	Subject Code No.	Time: 12:00p.m to 02:00 p.m
<b>Thursday 16/04/2020</b>	<b>65808</b>	<b>1. Physics Paper - XIV</b> (Energy Studies and Materials Science)
	<b>65831</b>	<b>2. Chemistry Paper – XIV</b> (Inorganic Chemistry)
	<b>65843</b>	<b>3. Botany Paper – XIV</b> (Microbiology and Plants Pathology)
	<b>65854</b>	<b>4. Zoology Paper – XIV</b> (Developmental Biology)
	<b>65880</b>	<b>5. Mathematics Paper- XIV</b> (Linear Algebra)
	<b>65865</b>	<b>6. Statistics Paper – XIV</b> (Statistical Inference - II )
	<b>65920</b>	<b>7. Geology Paper- XIV</b> (Phanerozoic Stratigraphy of India))
	<b>65898</b>	<b>8. Microbiology Paper- XIV</b> (Microbial Biochemistry)
	<b>65819</b>	<b>9. Electronics Paper- XIV</b> (Communication Systems – II )
	<b>65909</b>	<b>10. Computer Science Paper – XIV</b> (Java Programming)
	<b>66018</b>	<b>11. Food Science &amp; Quality Control Paper- XIV</b> (Technology of Meat, Fish & Poultry Products)
	<b>66041</b>	<b>12. Industrial Microbiology Paper- XIV</b> (Application of Bio-Technology)
	<b>66063</b>	<b>13. Bio-Technology Paper- XIV (Optional/Vocational)</b> (Environmental Bio-Technology)
	<b>65970</b>	<b>14. Fisheries Paper – VIII</b> (Fish Pathology and Fishery Technology)
	<b>66593</b>	<b>15. Bio-Chemistry Paper- XIV</b> ( Cancer Biology)

**B. Sc Part – III Semester – VI (University Examination)**

Day & Date	Subject Code No.	Time: 12:00p.m to 02:00 p.m
Friday 17/04/2020	65809	1. <b>Physics Paper- XV</b> (Electrodynamics and Electromagnetic Waves)
	65832	2. <b>Chemistry Paper- XV</b> (Organic Chemistry)
	65844	3. <b>Botany Paper- XV</b> (Plants breeding Biostatistics Ethno Botany and Horticulture)
	65855	4. <b>Zoology Paper- XV</b> (Physiology)
	65881	5. <b>Mathematics Paper- XV</b> (Complex Analysis) s
	65866	6. <b>Statistics Paper- XV</b> (Sampling Theory)
	65921	7. <b>Geology Paper- XV</b> (Prospecting and Mineral Exploration)
	65899	8. <b>Microbiology Paper- XV</b> (Environmental Microbiology)
	65820	9. <b>Electronics Paper- XV</b> (Advanced Microcontroller Architecture PIC)
	65910	10. <b>Computer Science Paper- XV</b> (Advanced Linux Applications)
	66019	11. <b>Food Science &amp; Quality Control Paper- XV</b> (Food Hygiene & Sanitation)
	66042	12. <b>Industrial Microbiology Paper- XV</b> (Industrial Management, Government Laws and Regulations)
	66064	13. <b>Bio-Technology Paper- XV (Optional /Vocational)</b> (Cell Metabolism and Virology)
	65955	14. <b>Plant Protection Paper- VII</b> (Field Techniques in Plants Production)
	65981	15. <b>Pollution Paper- VII</b> (Terrestrial Pollution and Recycling)
	65943	16. <b>Seed Technology Paper- XI</b> (Seed Processing and Storage)
	66594	17. <b>Bio-Chemistry Paper- XV</b> ( Clinical Bio-Chemistry)

**B. Sc Part – III Semester – VI (University Examination)**

Day & Date	Subject Code No.	Time: 12:00 p.m to 02:00 p.m
<u>Saturday</u> 18/04/2020	<b>65810</b>	<b>1. Physics Paper- XVI</b> (Solid State Physics )
	<b>65833</b>	<b>2. Chemistry Paper- XVI</b> (Analytical Chemistry)
	<b>65845</b>	<b>3. Botany Paper – XVI</b> (Molecular Biology and Biotechnology)
	<b>65856</b>	<b>4. Zoology Paper- XVI</b> (Applied Zoology)
	<b>65883</b>	<b>5. Mathematics Paper- XVI</b> (Numerical Methods- II )
	<b>65867</b>	<b>6. Statistics Paper – XVI</b> (Quality Management and Data Mining)
	<b>65922</b>	<b>7. Geology Paper – XVI</b> (Environmental Geology and Hydrogeology)
	<b>65900</b>	<b>8. Microbiology Paper - XVI</b> (Clinical Microbiology)
	<b>65821</b>	<b>9. Electronics Paper- XVI</b> (Electronic Instrumentation)
	<b>65911</b>	<b>10. Computer Science Paper - XVI</b> (E- Commerce)
	<b>66020</b>	<b>11. Food Science &amp; Quality Control Paper – XVI</b> (Food Packaging Technology )
	<b>66043</b>	<b>12. Industrial Microbiology Paper- XVI</b> (Microbial Fermentations, Food and Befouls)
	<b>65956</b>	<b>13. Plant Protection Paper – VIII</b> (Laboratory Techniques in Plant Protection)
	<b>66065</b>	<b>14. Bio-Technology Paper- XVI (Optional/Vocational)</b> (Gene Biotechnology and Bioinformatics)
	<b>65982</b>	<b>15. Pollution Paper – VIII</b> (Monitoring and Control of Pollution)
	<b>65944</b>	<b>16. Seed Technology Paper – XII</b> (Seed Farm Management and Marketing)
	<b>65595</b>	<b>17. Bio-Chemistry Paper – XVI</b> (Fermentation Technology)
<u>Monday</u> 20/04/2020	<b>65806</b>	<b>English (Compulsory)</b> (English for Communication)

N.B.:

The practical Examination in “Skill” at Optional Physical Education, N.C.C. Music, Home Science will be conducted in the Colleges before the commencement of Theory Examination.

VIDYANAGAR  
KOLHAPUR – 416 004  
Date :- 13/03 / 2020

**Sd /-**  
**Shri. G.R. Palse**  
I/c Director,  
Board of Examination and Evaluation