



MANONMANIAM SUNDARANAR UNIVERSITY TIRUNELVELI – 627 012



PH.D., COURSE WORK EXAMINATIONS – DECEMBER – 2017

TIME TABLE

Venue: CITE Block, M.S University Campus, Tirunelveli

DISCIPLINE - ANIMAL SCIENCE / ZOOLOGY / ADVANCED ZOOLOGY AND BIOTECHNOLOGY

Session : FN		Time : 10.00 AM To 1.00 PM	
S.No	Date	Subject Code	Subject Title
01	19.02.2018 (Monday)	DTCAC1	Research Methodology
02		KZOE32 / 15PZOE	Bio Instrumentation / Methods in Biology
03	20.02.2018 (Tuesday)	LCAC2	Coastal Aquaculture
04		KBOM12	Mycology, Lichenology and Molecular Pathology
05	21.02.2018(Wednesday)	LCAC3	Culture and Hatchery Techniques
06	22.02.2018 (Thursday)	DTMBC2	Genetic Engineering

DISCIPLINE –CHEMISTRY

Session : FN		Time : 10.00 AM To 1.00 PM	
S.No	Date	Subject Code	Subject Title
01	19.02.2018 (Monday)	KCHM34 /17MC11	Research Methodology
02	20.02.2018 (Tuesday)	KCHM31	Organic Chemistry – III
03	21.02.2018 Wednesday)	PCHE11 / 17MC12	Advanced Topics in Chemistry – I
04	22.02.2018 (Thursday)	PCHE21	Advanced Topics in Chemistry – II

DISCIPLINE – BIOTECHNOLOGY / MICROBIOLOGY / MARINE BIOTECHNOLOGY / MARINE SCIENCE

Session : FN		Time : 10.00 AM To 1.00 PM	
S.No	Date	Subject Code	Subject Title
01	19.02.2018 (Monday)	LMBC14	General Microbiology
02		LBTEG	Nano Biology
03		LBTSE	Stem Cell and Regenerative Biology
04	20.02.2018 (Tuesday)	DTCAC2	Coastal Aquaculture
05		LBTC34	Environmental Biotechnology
06		LBTSE	Biotechnology and Human Health
07		LMBC32	Bio Process Technology
08	21.02.2018 (Wednesday)	DTCAC3	Culture and Hatchery Techniques
09		LBTEA	Analytical Techniques in Biotechnology
10		LMBC14	Microbial Physiology and Metabolism
11	22.02.2018 (Thursday)	LMBC34	Bio Remediation
12		LBTC14	Genetics

DISCIPLINE – ECONOMICS

Session : FN		Time : 10.00 AM To 1.00 PM	
S.No	Date	Subject Code	Subject Title
01	19.02.2018 (Monday)	DTECC1	Research Methodology
02	20.02.2018 (Tuesday)	LEOEH	Economics of Gender and Development
03	21.02.2018 (Wednesday)	DTECE1	Contemporary Issues in Economics
04	22.02.2018 (Thursday)	DTECC2	Recent Developments in Economic Theory
05		LEOEI	Welfare Economics

DISCIPLINE –COMMERCE

Session : FN				Time : 10.00 AM To 1.00 PM			
S.No	Date	Subject Code	Subject Title				
01	19.02.2018 (Monday)	LCOC21	Entrepreneurial Development				
02		LCOC31	Research Methodology				
03		CORE10	Retail Management				
04		LCOEA	Investment Management				
05	20.02.2018 (Tuesday)	KKCN35	E Commerce				
06		CORE6	Modern Marketing Management				
07		DTCOE9 / KKCM35	Human Resource Management				
08	21.02.2018 (Wednesday)	DTCOE5	International Marketing				
09		LMSEM1	Services Marketing				
10	22.02.2018 (Thursday)	DTCOE4	Banking and Financial Services				
11		DTCOE1	Marketing Management				

DISCIPLINE – MANAGEMENT STUDIES

Session : FN				Time : 10.00 AM To 1.00 PM			
S.No	Date	Subject Code	Subject Title				
01	19.02.2018 (Monday)	DTMNC2	Research Methodology				
02		LMSEHB	Strategic Human Resource Management				
03	20.02.2018 (Tuesday)	LMSEMI	Services Marketing				
04	21.02.2018 (Wednesday)	LMSEMB	Marketing Research				
05	22.02.2018 (Thursday)	LMSEHD	Industrial Relations Management				

DISCIPLINE – COMPUTER SCIENCE / COMPUTER APPLICATIONS / COMPUTER SCIENCE AND ENGINEERING

		Session : FN	Time : 10.00 AM To 1.00 PM
S.No	Date	Subject Code	Subject Title
01	19.02.2018 (Monday)	DTCSC1 / KITM34 / HCSC11 / MCS01	Research Methodology
02		LCSC31	Web Technology
03		LMEEI	Machine Learning Technology
04		KCSE11	Distributed Computing
05	20.02.2018 (Tuesday)	KCSO16	Pervasive and Mobile Computing
06		LMEC14 / KCSO12	Advanced Computer Networks and Security
07		LCSN / LMEEA / KCSO11 / DTCSC2 / KCSM32	Digital Image Processing
08	21.02.2018 (Wednesday)	CEJA / KCSO13 / DTCSE4 / KCSE21	Data Mining and Data Warehousing
09		KCSE23	Cloud Computing
10		PCAS42	Cryptography and Network Security
11		KCSO14	Semantic Web and Social Networks / Web Service
12		CEAA / KCSO17 / KCSM34	Software Testing
13	22.02.2018 (Thursday)	LCSEJ / KCSM33	Soft Computing
14		KCSE32	Big Data Analytics
15		PCA42	Cloud Computing and Big Data Analytics
16		KCSE33	Mobile Computing

DISCIPLINE – EDUCATION

S.No	Session : FN		Time : 10.00 AM To 1.00 PM
	Date	Subject Code	Subject Title
01	19.02.2018 (Monday)	LEDEA	Education at Secondary and Higher Secondary Levels
02		MPYEE	Psychotherapy
03	20.02.2018 (Tuesday)	LPYSB	Life Skills for Youth
04		LPYC12	Life Span Development
05	21.02.2018 (Wednesday)	LEDC11	Educational Studies
06		LPYC32	Guidance and Counseling Psychology
07	22.02.2018 (Thursday)	BE4ED	Education for Differently abled
08		LEDEB	Education Management and Administration

DISCIPLINE – ENGLISH

S.No	Session : FN		Time : 10.00 AM To 1.00 PM
	Date	Subject Code	Subject Title
01	19.02.2018 (Monday)	KEHM31	Literary Theory and Criticism II
02		KEHM42	Diasporic Womens Writing
03	20.02.2018 (Tuesday)	PEHE11	Literature and Gender
04		KEHM24	American Literature
05	21.02.2018 (Wednesday)	KEHM33	World Literature in English Translation
06		KEHM11	Modern Literature
07	22.02.2018 (Thursday)	KEHM23 / PEHM24	Indian Writing in English Translation
08		PEHE21	Communicative English
09		PEHM14	Indian Writing in English

DISCIPLINE – INFORMATION TECHNOLOGY & ENGINEERING

S.No	Session : FN		Time : 10.00 AM To 1.00 PM
	Date	Subject Code	Subject Title
01	19.02.2018 (Monday)	DTITC1	Research Methodology
02		LMTC31	Engineering Research Methodology
03	20.02.2018 (Tuesday)	LITEAC	Computing for Data Analytics
04		LMTEBA	Modern Communication Systems
05	21.02.2018 (Wednesday)	LITEAA / DTITC2	Data Science and Big Data Analytics
06		LMTEBD	Pervasive Grid and Cloud Computing
07	22.02.2018 (Thursday)	DTITE1	Advanced Digitals Signal and Image Processing
08		LMTEAD	Cloud Computing
09		LMTEBF / DTCSE4	Data Mining and Data Warehousing
10		DTITE2	Pattern Recognition and Image Analysis

DISCIPLINE – PLANT SCIENCE / BOTANY / PLANT BIOLOGY AND BIOTECHNOLOGY

S.No	Session : FN		Time : 10.00 AM To 1.00 PM
	Date	Subject Code	Subject Title
01	19.02.2018 (Monday)	18PB09	Pterido phytes
02		18PB04	Nano Biotechnology / Nano Science
03	20.02.2018 (Tuesday)	18PB08	Plant Taxonomy
04		18PB07	Advanced Molecular Biological Techniques / Cell and Molecular Biology

DISCIPLINE – INTER DISCIPLINARY

S.No	Session : FN		Time : 10.00 AM To 1.00 PM	
	Date	Subject Code	Subject Title	
01	19.02.2018 (Monday)	DTCSC1 /DTITC1	Research Methodology	
03	20.02.2018 (Tuesday)	KEIV	Fuzzy Logic and its Applications	
04		LCSC31	Web Technologies	
05	21.02.2018 (Wednesday)	KCSM34	Software Testing	
06		PBOM14	Phytochemistry	
07		LEDEA	Education at Secondary and Higher Secondary Levels.	
08		KCSE23	Cloud Computing	
09		DTSTEB	Data Mining Methods and their Applications	
10	22.02.2018 (Thursday)	KCSM33	Soft Computing	
11		DTSTE6	Stochastic Modeling and its Applications	
12		LMEEA	Digital Image Processing	
13		LEDC11	Educational Studies	

DISCIPLINE – HISTORY

S.No	Session : FN		Time : 10.00 AM To 1.00 PM	
	Date	Subject Code	Subject Title	
01	19.02.2018 (Monday)	KHYC11	Research Methodology in History	
02	20.02.2018 (Tuesday)	KHYM11	Cultural History of Tamil Nadu up to 1336 AD	

DISCIPLINE – MATHEMATICS

S.No	Session : FN		Time : 10.00 AM To 1.00 PM
	Date	Subject Code	Subject Title
01	19.02.2018 (Monday)	KMAM33	Research Methodology
03		HMAC11	Advanced Algebra
04		PMAM14	Ordinary Differential Equations
05	20.02.2018 (Tuesday)	PMAM13	Analytical Number Theory
06		DTMAE6	Algebraic Graph Theory
07		4PM33 / IIPGM7	Graph Theory
08		DTMAE1 / ____	Advanced Graph Theory / Advanced Topics in Domination Theory of Graphs
09		PGM12	Partial Differential Equations
10	21.02.2018 (Wednesday)	DTMAC2	Banach Algebra and Spectral Theory
11		PMT31 / LMAEA	Linear Algebra
12		IVPGM1	Operations Research
13		KMAE22	Discrete Mathematics
14	22.02.2018 (Thursday)	DTMAC1	Commutative Algebra
15		PMTE21 / PGEM3 / MMAEK	Calculus of Variations and Integral Equations
16		PMAM11	Differential Geometry
17		LMAEH	Number Theory
18		PMAM15	Numerical Analysis

DISCIPLINE – PHYSICAL EDUCATION

S.No	Session : FN		Time : 10.00 AM To 1.00 PM
	Date	Subject Code	Subject Title
01	19.02.2018 (Monday)	DTPEC1	Research Methods and Advanced Statistics
02		LPEC32	Principles of Life Span Motor Development
03	20.02.2018 (Tuesday)	LPEED	Health Education and Nutritional Care
04		LPEEC	Information and Communication Technology in Physical Education
05	21.02.2018 (Wednesday)	DTPEE4	Sports Psychology
06		LPEC42	Yogic Sciences
07		LPEC13	Scientific Principles of Sports Training and Coaching
08		DTPEE1	Exercise Management
09	22.02.2018 (Thursday)	DTPEC2	Measurements and Evaluation in Human Performance
10		DTPEE3	Exercise Physiology
Session : AN		Time : 2.00 PM To 5.00 PM	
11	22.02.2018 (Thursday)	DTPEE2	Sports Training

DISCIPLINE – STATISTICS

S.No	Session : FN		Time : 10.00 AM To 1.00 PM
	Date	Subject Code	Subject Title
01	19.02.2018 (Monday)	DTITC1	Research Methodology
02		DTSTE9	Time Series Analysis and its Applications
03	20.02.2018 (Tuesday)	DTSTE5	Statistical Inference in Econometrics
04	21.02.2018 (Wednesday)	DTSTEB	Data Mining Methods and their Applications
05		DTSTE7	Markov chains and their Applications
06	22.02.2018 (Thursday)	DTSTE6	Stochastic Modeling and its Applications
07		DTSTC1	Research Methodology

DISCIPLINE – PHYSICS

S.No	Session : FN		Time : 10.00 AM To 1.00 PM
	Date	Subject Code	Subject Title
01	19.02.2018 (Monday)	KPHM14 / KPHM34	Research Methodology
02		DTPHE3	Energy Storage Materials
03	20.02.2018 (Tuesday)	K34P	Laser and Spectroscopy
04		KPH012	Physical Properties of Materials
05		KPHM42	Spectroscopy
06		PPMH12	Molecular Spectroscopy
07	21.02.2018 (Wednesday)	MPHC15	Numerical Analysis
08		PPHM13	Integrated Electronics
09		PPMH11	Electronic Circuit Analysis
10	22.02.2018 (Thursday)	PPHM14	Non Linear Dynamics
11		KPH013	Nano Materials

DIRECTOR
CENTRE FOR RESEARCH

CONTROLLER OF EXAMINATIONS

QUESTION PAPER PATTERN
MANONMANIAM SUNDARANAR UNIVERSITY,
TIRUNELVELI - 12

Ph.D. COURSE WORK EXAMINATIONS, DECEMBER - 2017
SUB.CODE / TITLE

Time: Three Hours

Maximum: 75 Marks

Answer ALL Questions
PART - A

10 X 1 = 10

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Answer ALL Questions
PART - B

5 X 5 = 25

11. (a)
- (b)
12. (a)
- (b)
13. (a)
- (b)
14. (a)
- (b)
15. (a)
- (b)

OR

OR

OR

OR

OR

Answer ALL Questions
PART - C

5 X 8 = 40

16. (a)
- (b)
17. (a)
- (b)
18. (a)
- (b)
19. (a)
- (b)
20. (a)
- (b)

OR

OR

OR

OR

OR