

K . J . SOMAIYA JUNIOR COLLEGE OF SCI & COMM. (BIOLOGY DEPARTMENT) ACADEMIC PLAN S.Y.J.C.BOTANY 1ST TERM 2018-2019.

Week		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	FIRST TERM	
		18/06 23/06	25/06 30/06	02/07 07/07	09/07 14/07	16/07 21/07	23/07 28/07	30/07 04/08	06/08 11/08	13/08 18/08	20/08 25/08	27/08 01/09	03/09 08/09	10/09 12/09	18/09 22/09	24/09 29/09	01/10 06/10	08/10 13/10	15/10 20/10	22/10 27/10	29/10 03/11
DR. SHAILAJA MENON	S.Y.J.C		Pr1	Pr1	Pr2	Pr2	Pr3	Pr3	Pr4	Pr4	Pr5	Pr5	Pr6	Pr6	Pr7	Pr7	Pr8	Pr8	Pr9		
	Pr		Mendelian inheritance & Meiosis	Mendelian inheritance & Meiosis	Floral dissection	Floral dissection	Pollen Germination on slide - Vinca flower	Pollen Germination on slide - Vinca flower	Controlled pollination Bagging, Tagging	Controlled pollination Bagging, Tagging	Aerobic & Anaerobic Resp. Paper Chromatography	Aerobic & Anaerobic Resp. Paper Chromatography	Mitosis	Mitosis	Xerophyte & Hydrophyte	Xerophyte & Hydrophyte	Wind & Insect polln. Study of pollen germination on ps	Wind & Insect polln. Study of pollen germination on ps	Population density & frequency		
DR. VINOD T	S.Y.J.C	REPRODUCTION IN PLANTS - II					RESPIRATION					ORGANISMS & ENVT. II		GENE: ITS NATURE, EXPRESSION AND REGULATION							
	Th. Div. A, E	Pollination Definition and types Merits & demerits	Agencies of Pollination- Abiotic-Agencies I	Biotic-Agencies II	Out breeding devices, Pollen pistil interaction, Double fertilization – Process and signi,	Post fertilization changes – Devt. of endosperm, Types of endosperm, Devt. of embryo,	Formn. of fruits seeds, Partheno., Apomixis and Polyembryony, Signi. of seeds and fruits.	Defn.,ATP & Ultra str. Mitochon. Anaerobic RP.	Glycolysis	TCA	ETS,RQ & Significance	Phosphorous cycle, Ecological succession	Eco.servic esEnvt.al issues	DNA as a genetic material –	Modern Concept of Gene, Eukaryotic DNA, Semi Con.Replication of DNA	Packaging of DNA RNA - General structure, Types and Functions	Genetic Code its Characteristics	Central Dogma of Protein Synthesis	Gene Expression and Gene Regulatn	Terminal exam	Terminal exam

Dates		18/06	25/06	02/07	09/07	16/07	23/07	30/07	06/08	13/08	20/08	27/08	03/09	10/09	18/09	24/09	01/10	08/10	15/10	22/10	29/10		
		23/06	30/06	07/07	14/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	12/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11		
	S.Y.J .C Pr.		Pr1 Mendelian inheritance & Meiosis	Pr1 Mendelian inheritance & Meiosis	Pr2 Floral dissection	Pr2 Floral Dissection	Pr3 Pollen Germination on slide - Vinca flower	Pr3 Pollen Germination on slide - Vinca flower	Pr4 Controlled pollination Bagging, Tagging	Pr4 Controlled pollination Bagging, Tagging	Pr5 Aerobic & Anaerobic Resp. Paper Chromatography	Pr5 Aerobic & Anaerobic Resp. Paper Chromatography	Pr6 Mitosis	Pr6 Mitosis	Pr7 Xerophyte & Hydrophyte	Pr7 Xerophyte & Hydrophyte	Pr8 Wind & Insect polln. Study of pollen germn. on ps	Pr8 Wind & Insect polln. Study of pollen germn. on ps	Pr9 Population density & frequency				
DR. DEVENDRA JADHAV	S.Y.J .C Th.	REPRODUCTION IN PLANTS - I					PHOTOSYNTHESIS					ORGANISMS & ENVT. I		GENETIC BASIS OF INHERITANCE									
	Div. A, D	Asexual repr.in lower organisms - Asexual repr. in Angio. Veg.pro . Natural	Vegetative propagation- Artificial	Sexual repro.- Flower str., anther, T.S., Str. of pollen grain, Devt. of male g. phyte	Str. of Anatropous ovule	functions of parts, Devt. of female g.phyte.	Definition . &Ultra str. of Chloroplast	Photosynthetic pigments & their Role PS 1 PS 2	Mechanism Cyclic Non-cyclic	Calvin cycle & Photorespiration	H.S.K. Pathway & CAM	Significance & Factors affecting P.S	Habitat and Niche, Ecosystem / Ecological system,	Pyramids – no. biomass and energy, C.cycle	Mendel's expt, selection of material, terminology, Procedure	Monohybrid Cross and Ratio	Law of Dominance ,Segregation, Dihybrid Cross and Ratio Law of Independent Assortment	Incom. dominance eCodominance, Multiple alleles	Pleiotropy Polygenic inherit., Human Skin colour	Terminal exam	Terminal exam		
	S.Y.J .C Pr.		Pr1 Mendelian inheritance & Meiosis	Pr1 Mendelian inheritance & Meiosis	Pr2 Floral dissection	Pr2 Floral dissection	Pr3 Pollen Germination on slide - Vinca flower	Pr3 Pollen Germination on slide - Vinca flower	Pr4 Controlled pollination Bagging, Tagging	Pr4 Controlled pollination Bagging, Tagging	Pr5 Aerobic & Anaerobic Resp. Paper Chromatography	Pr5 Aerobic & Anaerobic Resp. Paper Chromatography	Pr6 Mitosis	Pr6 Mitosis	Pr7 Xerophyte & Hydrophyte	Pr7 Xerophyte & Hydrophyte	Pr8 Wind & Insect polln. Study of pollen germn. on ps	Pr8 Wind & Insect polln. Study of pollen germn. on ps	Pr9 Population density & frequency				

Dates	18/06	25/06	02/07	09/07	16/07	23/07	30/07	06/08	13/08	20/08	27/08	03/09	10/09	18/09	24/09	01/10	08/10	15/10	22/10	29/10		
	23/06	30/06	07/07	14/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	12/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11		
Mrs. SHUBHANGI KHAMKAR	S.Y.J .C	REPRODUCTION IN PLANTS – II						RESPIRATION				ORGANISMS & ENVT. II		GENE: ITS NATURE, EXPRESSION AND REGULATION								
	Th. Div. D	Pollination Definition and types Merits & demerits	Agencies of Pollination- Abiotic- Agencies I	Biotic- Agencies II	Out breeding devices, Pollen pistil interaction, Double fertilization – Process and signi,	Post fertilization changes – Devt. of endosperm, Types of endosperm, Devt. of embryo,	Formn. of fruits seeds, Partheno. , Apomixis and Polyembryony, Signi. of seeds and fruits.	Defn.,ATP &Ultra str. Mitochon. Anaerobic RP.	Glycolysis	TCA	ETS,RQ & Significance	Phosphorous cycle, Ecological succession	Eco.service sEnvt.al issues	DNA as a genetic material –	Modern Concept of Gene, Eukaryotic DNA, Semi Con.Repl ication of DNA	Packaging of DNA RNA - General structure, Types and Functions	Genetic Code its Character istics	Central Dogma of Protein Synthesis	Gene Expressio n and Gene Regulatn	Termina l exam	Termin al exam	
	S.Y.J .C	REPRODUCTION IN PLANTS - I				PHOTOSYNTHESIS					ORGANISMS & ENVT. I		GENETIC BASIS OF INHERITANCE									
	Th. Div. E	Asexual repr.in lower organisms - Asexual repr. in Angio. Veg.pro . Natural	Vegetativ e propagati on- Artificial	Sexual repro.- Flower str., anther, T.S., Str. of pollen grain, Devt. of male g. phyte	Str. of Anatropo us ovule	functions of parts, Devt. of female g.phyte.	Definition . &Ultra str. of Chloropla st	Photosy nthetic pigments & their Role PS 1 PS 2	Mechanis m Cyclic Non- cyclic	Calvin cycle & Photoresp iration	H.S.K. Pathway & CAM	Significan ce & Factors affecting P.S	Habitat and Niche, Ecosystem / Ecological system,	Pyramids – no. biomass and energy, C.cycle	Mendel's expt, selection of material, terminol ogy, Procedur e	Monohyb rid Cross and Ratio	Law of Dominan ce,Segreg ation, Dihybrid Cross and Ratio Law of Independ ent Assortme nt	Incom. dominanc eCodomi nance, Multiple alleles	Pleiotrop y Polygeni c inherit., Human Skin colour	Termina l exam	Termin al exam	

		18/06	25/06	02/07	09/07	16/07	23/07	30/07	06/08	13/08	20/08	27/08	03/09	10/09	18/09	24/09	01/10	08/10	15/10	22/10	29/10		
		23/06	30/06	07/07	14/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	12/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11		
	S.Y.J .C Pr.		Pr1 Mendelian inheritance & Meiosis	Pr1 Mendelian inheritance & Meiosis	Pr2 Floral dissection	Pr2 Floral dissection	Pr3 Pollen Germination on slide - Vinca flower	Pr3 Pollen Germination on slide - Vinca flower	Pr4 Controlled pollination Bagging, Tagging	Pr4 Controlled pollination Bagging, Tagging	Pr5 Aerobic & Anaerobic Resp. Paper Chromatography	Pr5 Aerobic & Anaerobic Resp. Paper Chromatography	Pr6 Mitosis	Pr6 Mitosis	Pr7 Xerophyte & Hydrophyte	Pr7 Xerophyte & Hydrophyte	Pr8 Wind & Insect polln. Study of pollen germn. on ps	Pr8 Wind & Insect polln. Study of pollen germn. on ps	Pr9 Population density & frequency				
Mrs. NISHA JANGAM	S.Y.J .C Th. Div. B, C	REPRODUCTION IN PLANTS - I					PHOTOSYNTHESIS						ORGANISMS & ENVT. I		GENETIC BASIS OF INHERITANCE								
		Asexual repr.in lower organisms - Asexual repr. in Angio. Veg.pro. Natural	Vegetative propagation- Artificial	Sexual repro.- Flower str., anther, T.S., Str. of pollen grain, Devt. of male g. phyte	Str. of Anatropous ovule	functions of parts, Devt. of female g.phyte.	Definition & Ultra str. of Chloroplast	Photosynthetic pigments & their Role PS 1 PS 2	Mechanism Cyclic Non- cyclic	Calvin cycle & Photorespiration	H.S.K. Pathway & CAM	Significance & Factors affecting P.S	Habitat and Niche, Ecosystem / Ecological system,	Pyramids - no. biomass and energy, C.cycle	Mendel's expt, selection of material, terminology, Procedure	Monohybrid Cross and Ratio	Law of Dominance, Segregation, Dihybrid Cross and Ratio Law of Independent Assortment	Incomplete dominance, Codominance, Multiple alleles	Pleiotropy Polygenic inheritance, Human Skin colour	Terminal exam	Terminal exam		
	S.Y.J .C Pr.		Pr1 Mendelian inheritance & Meiosis	Pr1 Mendelian inheritance & Meiosis	Pr2 Floral dissection	Pr2 Floral dissection	Pr3 Pollen Germination on slide - Vinca flower	Pr3 Pollen Germination on slide - Vinca flower	Pr4 Controlled pollination Bagging, Tagging	Pr4 Controlled pollination Bagging, Tagging	Pr5 Aerobic & Anaerobic Resp. Paper Chromatography	Pr5 Aerobic & Anaerobic Resp. Paper Chromatography	Pr6 Mitosis	Pr6 Mitosis	Pr7 Xerophyte & Hydrophyte	Pr7 Xerophyte & Hydrophyte	Pr8 Wind & Insect polln. Study of pollen germn. on ps	Pr8 Wind & Insect polln. Study of pollen germn. on ps	Pr9 Population density & frequency				

Dates		18/06	25/06	02/07	09/07	16/07	23/07	30/07	06/08	13/08	20/08	27/08	03/09	10/09	18/09	24/09	01/10	08/10	15/10	22/10	29/10		
		23/06	30/06	07/07	14/07	21/07	28/07	04/08	11/08	18/08	25/08	01/09	08/09	12/09	22/09	29/09	06/10	13/10	20/10	27/10	03/11		
MRS.PRITY SARKAR	S.Y.J .C	REPRODUCTION IN PLANTS – II						RESPIRATION					ORGANISMS & ENVY. II		GENE: ITS NATURE, EXPRESSION AND REGULATION								
	Th.																						
	Div. B, C	Pollination Definition and types Merits & demerits	Agencies of Pollination- Abiotic- Agencies I	Biotic- Agencies II	Out breeding devices, Pollen pistil interaction, Double fertilization – Process and signi,	Post fertilization changes – Devt. of endosperm, Types of endosperm, Devt. of embryo,	Formn. of fruits seeds, Partheno. , Apomixis and Polyembryony, Signi. of seeds and fruits.	Defn.,ATP &Ultra str. Mitochon. Anaerobic RP.	Glycolysis	TCA	ETS,RQ & Significance	Phosphorous cycle, Ecological succession	Eco.servic esEnvt.al issues	DNA as a genetic material –	Modern Concept of Gene, Eukaryotic	Packaging of DNA RNA - General structure, Types and Functions	Genetic Code its Character istics	Central Dogma of Protein Synthesis	Gene Expressio n and Gene Regulatn	Termina l exam	Termin al exam		
S.Y.J .C		Pr1	Pr1	Pr2	Pr2	Pr3	Pr3	Pr4	Pr4	Pr5	Pr5	Pr6	Pr6	Pr7	Pr7	Pr8	Pr8	Pr9					
Pr.		Mendelian inheritance & Meiosis	Mendelian inheritance & Meiosis	Floral dissection	Floral dissection	Pollen Germination on slide - Vinca flower	Pollen Germination on slide - Vinca flower	Controlled pollination Bagging, Tagging	Controlled pollination Bagging, Tagging	Aerobic & Anaerobic Resp. Paper Chromatography	Aerobic & Anaerobic Resp. Paper Chromatography	Mitosis	Mitosis	Xerophyte & Hydrophyte	Xerophyte & Hydrophyte	Wind & Insect polln. Study of pollen germn. on ps	Wind & Insect polln. Study of pollen germn. on ps	Population density & frequency					

K . J . SOMAIYA JUNIOR COLLEGE OF SCI & COMM. (BIOLOGY DEPARTMENT) ACADEMIC PLAN S.Y.J.C.BOTANY 2ND TERM 2018-2019.

Week		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dates		22/11	26/11	03/12	10/12	17/12		02/01	07/01	14/01	21/01	28/01	04/02	11/02	18/02	25/02	04/03
		24/11	01/12	08/12	15/12	22/12	24/12	05/01	12/01	19/01	26/01	02/02	09/02	16/02	23/02	02/03	09/03
DR. SHAILAJA MENON	S.Y.J.C	Pr9	Pr10	Pr10													
	Pr	Population density & frequency	Meiosis	Meiosis	Revision	Revision	Revision	PRELIMINARY THEORY EXAMINATION									
	Th.	ENHANCEMENT IN FOOD PRODUCTION			MICROBES IN HUMAN WELFARE												
Div. A , E	Plant breeding	Tissue Culture	Applications of Tissue Culture,SCP	Microbes in bio gas production, biocontrol , biofertilizer	Doubt solving session	Doubt solving session											
DR. VINOD TRIGUNAYAT	S.Y.J.C	Pr9	Pr10	Pr10													
	Pr.	Population density & frequency	Meiosis	Meiosis	Revision	Revision	Revision	PRELIMINARY PRACTICAL EXAMINATION									
H.S.C BOARD PRACTICAL EXAMINATION																	
PRELIMINARY THEORY EXAMINATION																	

DR. DEVENDRA JADHAV	S.Y.J.C Th. Div. A ,D	BIOTECHNOLOGY : PROCESS & APPLICATION			MICROBES IN HUMAN WELFARE																
		Recombinant DNA Tech, Transposons, Plasmids & Bact. Phages Restri Fragments,	Preparing and Cloning a DNA Lib. Gene Amplification	App. of Bio-technology Agriculture Bt Crops, Bio-safety issues.	Microbes in household prodn., Industrial prodn., & in sewage treatment	Doubt solving session	Doubt solving session														
	S.Y.J.C Pr.	Pr9 Population density & frequency	Pr10 Meiosis	Pr10 Meiosis	Revision	Revision	Revision														
Mrs. SHUBHANGI KHAMKAR		ENHANCEMENT IN FOOD PRODUCTION			MICROBES IN HUMAN WELFARE																
	S.Y.J.C Th. Div. D	Plant breeding	Tissue Culture	Applications of Tissue Culture, SCP	Microbes in bio gas production, biocontrol, biofertilizer	Doubt solving session	Doubt solving session														
	S.Y.J.C Th. Div. E	BIOTECHNOLOGY : PROCESS & APPLICATION			MICROBES IN HUMAN WELFARE																
		Recombinant DNA Tech, Transposons, Plasmids & Bact. Phages Restri Fragments,	Preparing and Cloning a DNA Lib. Gene Amplification	App. of Bio-technology Agriculture Bt Crops, Bio-safety issues.	Microbes in household prodn., Industrial prodn., & in sewage treatment	Doubt solving session	Doubt solving session														
								PRELIMINARY THEORY EXAMINATION													
									PRELIMINARY PRACTICAL EXAMINATION												
										H.S.C BOARD PRACTICAL EXAMINATION											
																					PRELIMINARY THEORY EXAMINATION

	S.Y.J.C Pr.	Pr9 Population density & frequency	Pr10 Meiosis	Pr10 Meiosis	Revision	Revision	Revision					
Mrs. NISHA JANGAM	S.Y.J.C Th. Div. B, C	BIOTECHNOLOGY : PROCESS & APPLICATION			MICROBES IN HUMAN WELFARE				PRELIMINARY THEORY EXAMINATION	PRELIMINARY PRACTICAL EXAMINATION	H.S.C BOARD PRACTICAL EXAMINATION	PRELIMINARY THEORY EXAMINATION
		Recombinant DNA Tech, Transposons, Plasmids & Bact. Phages Restri Fragments,	Preparing and Cloning a DNA Lib. Gene Amplification	App. of Bio-technology Agriculture Bt Crops, Bio-safety issues.	Microbes in household prodn., Industrial prodn., & in sewage treatment	Doubt solving session	Doubt solving session					
	S.Y.J.C Pr.	Pr9 Population density & frequency	Pr10 Meiosis	Pr10 Meiosis	Revision	Revision	Revision					
MRS. PRITY SARKAR	S.Y.J.C Th. Div. B, C	ENHANCEMENT IN FOOD PRODUCTION			MICROBES IN HUMAN WELFARE				PRELIMINARY THEORY EXAMINATION	PRELIMINARY PRACTICAL EXAMINATION	H.S.C BOARD PRACTICAL EXAMINATION	PRELIMINARY THEORY EXAMINATION
		Plant breeding	Tissue Culture	Applications of Tissue Culture, SCP	Microbes in bio gas production, biocontrol, biofertilizer	Doubt solving session	Doubt solving session					
	S.Y.J.C Pr.	Pr9 Population density & frequency	Pr10 Meiosis	Pr10 Meiosis	Revision	Revision	Revision					