ODD SEM-2018-19

SHRIDEVI	SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY SIRA ROAD, TUMKUR- 572 106.

Department of Physics

Course Outcomes and COs-POs Mapping

Batch 2018-19

Semester – I

Subject: Engineering Physics		**Subject Code:** 18PHY12
Course Outcomes		
CO1	Understand various types of oscillations and their implications, the role of Shock waves in various fields and Recognize the elastic properties of materials for engineering applications.	
CO2	Realize the interrelation between time varying electric field and magnetic field, the transverse nature of the EM waves and their role in optical fiber communication.	
CO3	Compute Eigenvalues, Eigenfunctions, the momentum of Atomic and subatomic particles using Time independent 1-D Schrodinger's wave equation.	
CO4	Apprehend the theoretical background of laser, construction, and working of different types of laser and its applications in different fields.	
CO5	Understand various electrical and thermal properties of materials like conductors, semiconductors and dielectrics using different theoretical models.	

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY				
FACULTY NAME	Dr. SADASHIVAIAH P J				
BRANCH	CSE	ACADEMIC YEAR	2018-19		
COURSE	B.E	SEMESTER	I	SECTION	A
SUBJECT	ENGINEERING PHYSICS	SUBJECT CODE	18PHY12		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3										2
CO2	3	3										2
CO3	3	3										2
CO4	3	3										2
CO5	3	3										2
AVERAGE	3	3										2
											OVERALL MAPPING OF SUBJECT	2.66

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	58.0404	1.74	1.74										1.16
CO2	50.88123	1.53	1.53										1.02
CO3	53.16475	1.59	1.59										1.06
CO4	52.78161	1.58	1.58										1.05
CO5	63.4902	1..99	1.99										1.33
AVERAGE	56.24563	1.69	1.69										1.12
												FINAL ATTAINMENT LEVEL	1.50

FACULTY

HOD

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ENGINEERING AND TECHNOLOGY
TUMKUR - 572106.

SEM: I	Total Strength			45			Course:	Engineering Physics					Course Code:	18PHY12				2018-19									
SEC: A	IA TEST 1			IA TEST 2			IA TEST 3			ASSIGNEMENT (10M)					SEE MARKS(60)					Total Cos ATTAINMENT					% of Individual CO				
USN	CO3=15	CO4	TOTAL	CO5	CO1	TOTA	CO1	CO2	TOTAL	CO1=2	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	CO1=44	CO2=29	CO3=29	CO4=29	CO5=29	CO1	CO2	CO3	CO4	CO5
1SV18CS001	8	9	17	12	12	24	4	3	7	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	23.2	10.2	15.2	16.2	19.2	52.72727	35.17241	52.41379	55.86207	66.2069
1SV18CS002	2	1	3	11	11	22	5	6	11	2	2	2	2	2	4.2	4.6	4.6	4.6	4.6	22.2	12.6	8.6	7.6	17.6	50.45455	43.44828	29.65517	26.2069	60.68966
1SV18CS003	9	9	18	14	14	28	3	3	6	2	2	2	2	2	4.8	5.6	5.6	5.6	5.6	23.8	10.6	16.6	16.6	21.6	54.09091	36.55172	57.24138	57.24138	74.48276
1SV18CS004	8	8	16	8	7	15	5	5	10	2	2	2	2	2	4.2	4.8	4.8	4.8	4.8	18.2	11.8	14.8	14.8	14.8	41.36364	40.68966	51.03448	51.03448	51.03448
1SV18CS005	12	12	24	15	15	30	10	11	21	2	2	2	2	2	9.4	7	7	7	7	36.4	20	21	21	24	82.72727	68.96552	72.41379	72.41379	82.75862
1SV18CS006	11	11	22	15	15	30			0	2	2	2	2	2	3.6	5.6	5.6	5.6	5.6	20.6	7.6	18.6	18.6	22.6	46.81818	26.2069	64.13793	64.13793	77.93103
1SV18CS007	13	13	26	15	15	30	10	10	20	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	34.6	19.6	22.6	22.6	24.6	78.63636	67.58621	77.93103	77.93103	84.82759
1SV18CS008	6	6	12	11	12	23	12	13	25	2	2	2	2	2	5.4	6	6	6	6	31.4	21	14	14	19	71.36364	72.41379	48.27586	48.27586	65.51724
1SV18CS009	4		8	10	11	21	4	5	9	2	2	2	2	2	4.2	4.6	4.6	4.6	4.6	21.2	11.6	10.6	6.6	16.6	48.18182	40	36.55172	22.75862	57.24138
1SV18CS010				12	11	23	8	7	15	2	2	2	2	2	7	4.6	4.6	4.6	4.6	28	13.6	6.6	6.6	18.6	63.63636	46.89655	22.75862	22.75862	64.13793
1SV18CS011	8	8	16	12	12	24	7	8	15	2	2	2	2	2	4.6	5.8	5.8	5.8	5.8	25.6	15.8	15.8	15.8	19.8	58.18182	54.48276	54.48276	54.48276	68.27586
1SV18CS012	7	7	14	8	8	16	5	6	11	2	2	2	2	2	2.2	4.8	4.8	4.8	4.8	17.2	12.8	13.8	13.8	14.8	39.09091	44.13793	47.58621	47.58621	51.03448
1SV18CS013	6	6	12	12	12	24	6	5	11	2	2	2	2	2	4.6	5.2	5.2	5.2	5.2	24.6	12.2	13.2	13.2	19.2	55.90909	42.06897	45.51724	45.51724	66.2069
1SV18CS014	10	10	20	15	15	30	11	10	21	2	2	2	2	2	6.6	6.8	6.8	6.8	6.8	34.6	18.8	18.8	18.8	23.8	78.63636	64.82759	64.82759	64.82759	82.06897
1SV18CS015	4	4	8	12	13	25	0	1	1	2	2	2	2	2	1	4.4	4.4	4.4	4.4	16	7.4	10.4	10.4	18.4	36.36364	25.51724	35.86207	35.86207	63.44828
1SV18CS017	15	15	30	15	15	30	12	12	24	2	2	2	2	2	8.2	7.6	7.6	7.6	7.6	37.2	21.6	24.6	24.6	24.6	84.54545	74.48276	84.82759	84.82759	84.82759
1SV18CS018	7	7	14	11	10	21	0	0	0	2	2	2	2	2	4.2	4.4	4.4	4.4	4.4	16.2	6.4	13.4	13.4	17.4	36.81818	22.06897	46.2069	46.2069	60
1SV18CS019	15	15	30	15	15	30	15	15	30	2	2	2	2	2	7.8	8	8	8	8	39.8	25	25	25	25	90.45455	86.2069	86.2069	86.2069	86.2069
1SV18CS020	4	4	8	6	6	12	5	5	10	2	2	2	2	2	1.6	4	4	4	4	14.6	11	10	10	12	33.18182	37.93103	34.48276	34.48276	41.37931
1SV18CS021	11	10	21	12	12	24	9	10	19	2	2	2	2	2	6.2	6.4	6.4	6.4	6.4	29.2	18.4	19.4	18.4	20.4	66.36364	63.44828	66.89655	63.44828	70.34483
1SV18CS022	7	7	14	14	14	28	15	10	29	2	2	2	2	2	4.2	6.8	6.8	6.8	6.8	35.2	18.8	15.8	15.8	22.8	80	64.82759	54.48276	54.48276	78.62069
1SV18CS023	9	9	18	15	15	30	15	15	30	2	2	2	2	2	7.6	7.2	7.2	7.2	7.2	39.6	24.2	18.2	18.2	24.2	90	83.44828	62.75862	62.75862	83.44828
1SV18CS024	7	8	15	12	13	25	11	11	22	2	2	2	2	2	3.2	6.2	6.2	6.2	6.2	29.2	19.2	15.2	16.2	20.2	66.36364	66.2069	52.41379	55.86207	69.65517
1SV18CS025	8	7	15	11	10	21	9	9	18	2	2	2	2	2	5.8	5.6	5.6	5.6	5.6	26.8	16.6	15.6	14.6	18.6	60.90909	57.24138	53.7931	50.34483	64.13793
1SV18CS026	10	10	20	13	13	26	4	4	8	2	2	2	2	2	6	5.6	5.6	5.6	5.6	25	11.6	17.6	17.6	20.6	56.81818	40	60.68966	60.68966	71.03448
1SV18CS027	11	10	21	15	15	30	6	6	12	2	2	2	2	2	5.6	6.2	6.2	6.2	6.2	28.6	14.2	19.2	18.2	23.2	65	48.96552	66.2069	62.75862	80
1SV18CS028	9	10	19	7	7	14	5	6	11	2	2	2	2	2	2.2	5	5	5	5	16.2	13	16	17	14	36.81818	44.82759	55.17241	58.62069	48.27586
1SV18CS029	8	9	17	12	12	24	10	11	21	2	2	2	2	2	5.2	6.2	6.2	6.2	6.2	29.2	19.2	16.2	17.2	20.2	66.36364	66.2069	55.86207	59.31034	69.65517
1SV18CS030	9	9	18	9	8	17	0	0	0	2	2	2	2	2	3.4	4.4	4.4	4.4	4.4	13.4	6.4	15.4	15.4	15.4	30.45455	22.06897	53.10345	53.10345	53.10345
1SV18CS031	8	8	16	12	11	23	9	8	17	2	2	2	2	2	6	5.8	5.8	5.8	5.8	28	15.8	15.8	15.8	19.8	63.63636	54.48276	54.48276	54.48276	68.27586
1SV18CS032	15	15	30	15	14	29	11	10	21	2	2	2	2	2	7.8	7.4	7.4	7.4	7.4	34.8	19.4	24.4	24.4	24.4	79.09091	66.89655	84.13793	84.13793	84.13793
1SV18CS033	9	9	18	11	12	23	14	14	28	2	2	2	2	2	6	6.6	6.6	6.6	6.6	34	22.6	17.6	17.6	19.6	77.27273	77.93103	60.68966	60.68966	67.58621
1SV18CS034	5	5	10	10	10	20	4	4	8	2	2	2	2	2	3	4.6	4.6	4.6	4.6	19	10.6	11.6	11.6	16.6	43.18182	36.55172	40	40	57.24138
1SV18CS035	7	7	14	9	10	19	3	3	6	2	2	2	2	2	0.8	4.6	4.6	4.6	4.6	15.8	9.6	13.6	13.6	15.6	35.90909	33.10345	46.89655	46.89655	53.7931
1SV18CS036	6	7	13	6	6	12	3	2	5	2	2	2	2	2	1.8	4	4	4	4	12.8	8	12	13	12	29.09091	27.58621	41.37931	44.82759	41.37931
1SV18CS038	9	10	19	9	9	18	6	7	13	2	2	2	2	2	5.8	5.4	5.4	5.4	5.4	22.8	14.4	16.4	17.4	16.4	51.81818	49.65517	56.55172	60	56.55172
1SV18CS039	15	15	30	14	13	27	15	15	30	2	2	2	2	2	7.6	7.8	7.8	7.8	7.8	37.6	24.8	24.8	24.8	23.8	85.45455	85.51724	85.51724	85.51724	82.06897
1SV18CS040	4	3	7	11	10	21	6	6	12	2	2	2	2	2	3.4	4.8	4.8	4.8	4.8	21.4	12.8	10.8	9.8	17.8	48.63636	44.13793	37.24138	33.7931	61.37931
1SV18CS041	11	10	21	15	15	30	7	6	13	2	2	2	2	2	4.8	6.4	6.4	6.4	6.4	28.8	14.4	19.4	18.4	23.4	65.45455	49.65517	66.89655	63.44828	80.68966
1SV18CS042	10	10	20	9	9	18	7	7	14	2	2	2	2	2	4.2	5.6	5.6	5.6	5.6	22.2	14.6	17.6	17.6	16.6	50.45455	50.34483	60.68966	60.68966	57.24138
1SV18CS043	10	10	20	14	15	29	12	11	23	2	2	2	2	2	6.4	6.8	6.8	6.8	6.8	35.4	19.8	18.8	18.8	22.8	80.45455	68.27586	64.82759	64.82759	78.62069
1SV18CS044	5	5	10	11	10	21	0	0	0	2	2	2	2	2	5.2	4.2	4.2	4.2	4.2	17.2	6.2	11.2	11.2	17.2	39.09091	21.37931	38.62069	38.62069	59.31034
1SV18CS045	10	9	19	10	10	20	7	6	13	2	2	2	2	2	2.8	5.6	5.6	5.6	5.6	21.8	13.6	17.6	16.6	17.6	49.54545	46.89655	60.68966	57.24138	60.68966
1SV18CS046	5	5	10	7	8	15	6	7	13	2	2	2	2	2	3.4	4.6	4.6	4.6	4.6	19.4	13.6	11.6	11.6	13.6	44.09091	46.89655	40	40	46.89655
1SV18CS047	4	4	8	9	9	18	7	6	13	2	2	2	2	2	2.4	4.6	4.6	4.6	4.6	20.4	12.6	10.6	10.6	15.6	46.36364	43.44828	36.55172	36.55172	53.7931
																									58.0404	50.88123	53.16475	52.78161	66.36015

FACULTY

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EVEN SEM-2018-19

SHRIDEVI	SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY SIRA ROAD, TUMKUR- 572 106.

Department of Physics

Course Outcomes and COs-POs Mapping

Batch 2018-19

Semester – II

Subject: Engineering Physics		**Subject Code:** 18PHY22
Course Outcomes		
CO1	Understand various types of oscillations and their implications, the role of Shock waves in various fields and Recognize the elastic properties of materials for engineering applications.	
CO2	Realize the interrelation between time varying electric field and magnetic field, the transverse nature of the EM waves and their role in optical fiber communication.	
CO3	Compute Eigenvalues, Eigenfunctions, the momentum of Atomic and subatomic particles using Time independent 1-D Schrodinger's wave equation.	
CO4	Apprehend the theoretical background of laser, construction, and working of different types of laser and its applications in different fields.	
CO5	Understand various electrical and thermal properties of materials like conductors, semiconductors and dielectrics using different theoretical models.	

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

COLLEGE	SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY				
FACULTY NAME	Dr. SADASHIVAIAH P J				
BRANCH	CV/ME/EC/EE	ACADEMIC YEAR	2018-19		
COURSE	B.E	SEMESTER	II	SECTION	C & D
SUBJECT	ENGINEERING PHYSICS	SUBJECT CODE	18PHY22		

CO & PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3										2
CO2	3	3										2
CO3	3	3										2
CO4	3	3										2
CO5	3	3										2
AVERAGE	3	3										2
OVERALL MAPPING OF SUBJECT												2.66

CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	53.38	1.60	1.60										1.07
CO2	49.31	1.48	1.48										0.99
CO3	53.95	1.62	1.62										1.08
CO4	53.83	1.61	1.61										1.08
CO5	49.36	1.48	1.48										0.99
AVERAGE	51.97	1.56	1.56										1.04
FINAL ATTAINMENT LEVEL													1.37

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TUMKUR - 572106

SEM: II	Total Strength		81			Course:	Engineering Physics			Course Code:	18PHY22														
SEC:C&D	IA TEST 1			IA TEST 2			IA TEST 3			ASSIGNEMENT (10M)					SEE MARKS(60)					Total Cos ATTAINMENT					% of Individual CO				
USN	CO1	CO1	TOTAL	CO3	CO4	TOTAL	CO5	CO2	TOTAL	CO1=2	CO2	CO3	CO4	CO5	CO1=12	CO2	CO3	CO4	CO5	CO1=44	CO2=29	CO3=29	CO4=29	CO5=29	CO1	CO2	CO3	CO4	CO5
1SV18CV001	5	4	9	3	4	7	5	6	11	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	13.8	10.8	7.8	8.8	9.8	31.36364	37.24138	26.89655	30.34483	33.7931
1SV18CV002	6	6	12	8	7	15	5	5	10	2	2	2	2	2	4.8	4.8	4.8	4.8	4.8	18.8	11.8	14.8	13.8	11.8	42.72727	40.68966	51.03448	47.58621	40.68966
1SV18CV003	9	9	18	11	11	22	6	6	12	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	28.2	16.2	21.2	21.2	16.2	64.09091	55.86207	73.10345	73.10345	55.86207
1SV18CV004	9	8	17	11	10	21	7	8	15	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	23.2	14.2	17.2	16.2	13.2	52.72727	48.96552	59.31034	55.86207	45.51724
1SV18CV005	4	5	9	7	7	14	2	2	4	2	2	2	2	2	0.8	0.8	0.8	0.8	0.8	11.8	4.8	9.8	9.8	4.8	26.81818	16.55172	33.7931	33.7931	16.55172
1SV18CV007	8	8	16	11	12	23	11	10	21	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	20.4	14.4	15.4	16.4	15.4	46.36364	49.65517	53.10345	56.55172	53.10345
1SV18CV008	6	7	13	8	7	15	7	8	15	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	20.4	15.4	15.4	14.4	14.4	46.36364	53.10345	53.10345	49.65517	49.65517
1SV18CV009	4	3	7	4	5	9	6	6	12	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	14.8	13.8	11.8	12.8	13.8	33.63636	47.58621	40.68966	44.13793	47.58621
1SV18CV010	5	5	10	4	3	7	5	5	10	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	15.2	10.2	9.2	8.2	10.2	34.54545	35.17241	31.72414	28.27586	35.17241
1SV18CV011	10	10	20	11	11	22			A	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	28.4	8.4	19.4	19.4	8.4	64.54545	28.96552	66.89655	66.89655	28.96552
1SV18CV012	8	5	15	2	1	3	6	6	12	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	20.2	13.2	9.2	8.2	13.2	45.90909	45.51724	31.72414	28.27586	45.51724
1SV18CV013	14	13	27	12	11	23	10	10	20	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	33.6	16.6	18.6	17.6	16.6	76.36364	57.24138	64.13793	60.68966	57.24138
1SV18CV014	10	10	20	11	12	23	9	9	18	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	28.4	17.4	19.4	20.4	17.4	64.54545	60	66.89655	70.34483	60
1SV18CV015	9	9	18	8	8	16	12	12	24	2	2	2	2	2	6	6	6	6	6	26	20	16	16	20	59.09091	68.96552	55.17241	55.17241	68.96552
1SV18CV016	6	7	13	12	11	13	1	1	2	2	2	2	2	2	0.4	0.4	0.4	0.4	0.4	15.4	3.4	14.4	13.4	3.4	35	11.72414	49.65517	46.2069	11.72414
1SV18CV017	12	13	25	14	15	29	10	10	20	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	35.2	20.2	24.2	25.2	20.2	80	69.65517	83.44828	86.89655	69.65517
1SV18CV018	14	13	27	15	14	29	9	8	17	2	2	2	2	2	9	9	9	9	9	38	19	26	25	20	86.36364	65.51724	89.65517	86.2069	68.96552
1SV18CV019	9	8	17	7	6	13	10	11	21	2	2	2	2	2	5	5	5	5	5	24	18	14	13	17	54.54545	62.06897	48.27586	44.82759	58.62069
1SV18CV020	8	9	17	6	7	13	4	5	9	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	22.4	10.4	11.4	12.4	9.4	50.90909	35.86207	39.31034	42.75862	32.41379
1SV18CV023	7	7	14	8	8	16	7	7	14	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	20.6	13.6	14.6	14.6	13.6	46.81818	46.89655	50.34483	50.34483	46.89655
1SV18CV024	4	5	9	10	10	20	8	7	15	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	15.6	13.6	16.6	16.6	14.6	35.45455	46.89655	57.24138	57.24138	50.34483
1SV18CV025	8	7	15	5	6	11	2	2	4	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	21.2	8.2	11.2	12.2	8.2	48.18182	28.27586	38.62069	42.06897	28.27586
1SV18CV026	10	11	21	10	10	20	9	9	18	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	30.8	18.8	19.8	19.8	18.8	70	64.82759	68.27586	68.27586	64.82759
1SV18CV027	13	13	16	10	10	20	8	8	16	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	32.6	14.6	16.6	16.6	14.6	74.09091	50.34483	57.24138	57.24138	50.34483
1SV18CV028	12	12	24	12	12	24	7	6	13	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	30.2	12.2	18.2	18.2	13.2	68.63636	42.06897	62.75862	62.75862	45.51724
1SV18CV029	6	6	12	5	4	9	5	5	10	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	17.2	10.2	10.2	9.2	10.2	39.09091	35.17241	35.17241	31.72414	35.17241
1SV18CV030	11	11	22	13	13	26	13	13	26	2	2	2	2	2	6.8	6.8	6.8	6.8	6.8	30.8	21.8	21.8	21.8	21.8	70	75.17241	75.17241	75.17241	75.17241
1SV18CV031	8	7	15	11	10	21	5	5	20	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	19.8	9.8	15.8	14.8	9.8	45	33.7931	54.48276	51.03448	33.7931
1SV18CV032	4	5	9	6	7	13	7	8	15	2	2	2	2	2	1.2	1.2	1.2	1.2	1.2	12.2	11.2	9.2	10.2	10.2	27.72727	38.62069	31.72414	35.17241	35.17241
1SV18CV033	5	5	10	3	4	7	9	8	17	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	14.8	12.8	7.8	8.8	13.8	33.63636	44.13793	26.89655	30.34483	47.58621
1SV18CV034	2	3	5	5	4	9	8	7	15	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	8.6	10.6	8.6	7.6	11.6	19.54545	36.55172	29.65517	26.2069	40
1SV18CV035	4	4	8	6	6	12	3	4	7	2	2	2	2	2	3	3	3	3	3	13	9	11	11	8	29.54545	31.03448	37.93103	37.93103	27.58621
1SV18CV036	12	11	23	11	11	22	12	13	25	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	29.6	19.6	17.6	17.6	18.6	67.27273	67.58621	60.68966	60.68966	64.13793
1SV18CV037	9	9	18	3	3	6	5	5	10	2	2	2	2	2	2.8	2.8	2.8	2.8	2.8	22.8	9.8	7.8	7.8	9.8	51.81818	33.7931	26.89655	26.89655	33.7931
1SV18ME001	4	5	9	5	5	10	5	5	10	2	2	2	2	2	0	0	0	0	0	11	7	7	7	7	25	24.13793	24.13793	24.13793	24.13793
1SV18ME002	11	10	21	13	13	26	11	12	23	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	30.6	21.6	22.6	22.6	20.6	69.54545	74.48276	77.93103	77.93103	71.03448
1SV18ME003	8	8	16			A	5	6	11	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	21.4	11.4	5.4	5.4	10.4	48.63636	39.31034	18.62069	18.62069	35.86207
1SV18ME004	12	12	24	11	11	22	6	5	11	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	31.6	12.6	18.6	18.6	13.6	71.81818	43.44828	64.13793	64.13793	46.89655
1SV18ME005	7	7	14	9	9	18	2	2	4	2	2	2	2	2	5	5	5	5	5	21	9	16	16	9	47.72727	31.03448	55.17241	55.17241	31.03448
1SV18ME007	8	8	16	6	5	11	8	7	15	2	2	2	2	2	1.6	1.6	1.6	1.6	1.6	19.6	10.6	9.6	8.6	11.6	44.54545	36.55172	33.10345	29.65517	40
1SV18ME008	7	8	15	4	5	9	5	6	11	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	20.2	11.2	9.2	10.2	10.2	45.90909	38.62069	31.72414	35.17241	35.17241
1SV18ME009	8	8	16	9	9	18	3	3	6	2	2	2	2	2	5.4	5.4	5.4	5.4	5.4	23.4	10.4	16.4	16.4	10.4	53.18182	35.86207	56.55172	56.55172	35.86207
1SV18ME010	9	8	17	11	11	22	7	8	15	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	21.2	12.2	15.2	15.2	11.2	48.18182	42.06897	52.41379	52.41379	38.62069
1SV18ME011	6	6	12	3	3	6	8		16	2	2	2	2	2	0.4	0.4	0.4	0.4	0.4	14.4	2.4	5.4	5.4	10.4	32.72727	8.275862	18.62069	18.62069	35.86207
1SV18ME012	7	7	14	4	3	7	6	6	12	2	2	2	2	2	1.2	1.2	1.2	1.2	1.2	17.2	9.2	7.2	6.2	9.2	39.09091	31.72414	24.82759	21.37931	31.72414
1SV18ME013	8	9	17	6	5	11	3	2	5	2	2	2	2	2	3.4	3.4	3.4	3.4	3.4	22.4	7.4	11.4	10.4	8.4	50.90909	25.51724	39.31034	35.86207	28.96552
1SV18EC001	11	12	23	6	6	12	5	6	11	2	2	2	2	2	2	2	2	2	2	27	10	10	10	9	61.36364	34.48276	34.48276	34.48276	31.03448
1SV18EC002	15	15	30	15	14	29	14	15	29	2	2	2	2	2	8.4	8.4	8.4	8.4	8.4	40.4	25.4	25.4	24.4	24.4	91.81818	87.58621	87.58621	84.13793	84.13793
1SV18EC003	8	7	15	3	2	5	7	6	13	2	2	2	2	2	1.8	1.8	1.8	1.8	1.8	18.8	9.8	6.8	5.8	10.8	42.72727	33.7931	23.44828	20	37.24138
1SV18EC004	11	12	23	10	11	21	8	8	16	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	30.8	15.8	17.8	18.8	15.8	70	54.48276	61.37931	64.82759	54.48276
1SV18EC005	9	10	19	9	9	18	12	12	24	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	29.2	22.2	19.2	19.2	22.2	66.36364	76.55172	66.2069	66.2069	76.55172
1SV18EC006	15	14	29	15	15	30	14	15	29	2	2	2	2	2	9.4	9.4	9.4	9.4	9.4	40.4	26.4	26.4	26.4	25.4	91.81818	91.03448	91.03448	91.03448	87.58621
1SV18EC007	14	14	28	14	13	27	12	13	25	2	2	2	2	2	7.8	7.8	7.8	7.8	7.8	37.8	22.8	23.8	22.8	21.8	85.90909	78.62069	82.06897	78.62069	75.17241
1SV18EC008	9	10	19	9	10	19	7	8	15	2	2	2	2	2	7.6	7.6	7.6	7.6	7.6	28.6	17.6	18.6	19.6	16.6	65	60.68966	64.13793	67.58621	57.24138
1SV18EC009	11	10	21	10	10	20	15	15	30	2	2	2	2	2	8.2	8.2	8.2	8.2	8.2	31.2	25.2	20.2	20.2	25.2	70.90909	86.89655	69.65517	69.65517	86.89655
1SV18EC010	7	7	14	10	10	20	13	13	26	2	2	2	2	2	5.2	5.2	5.2	5.2	5.2	21.2	20.2	17.2	17.2	20.2	48.18182	69.65517	59.31034	59.31034	69.65517
1SV18EC011	12	12	24	15	15	30	10	11	21	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	30.6	17.6	21.6	21.6	16.6	69.54545	60.68966	74.48276	74.48276	57.24138
1SV18EC012	12	12	24	12	12	24	15	15	30	2	2	2	2	2	7	7	7	7	7	33	24	21	21	24	75	82.75862	72.41379	72.41379	82.75862
1SV18EC013	14	15	29	15	15	30	15	14	29	2	2	2	2	2	10.6	10.6	10.6	10.6	10.6	41.6	26.6	27.6	27.6	27.6	94.54545	91.72414	95.17241	95.17241	95.17241
1SV18EC014	10	11	21	13	14	17	5	6	11	2	2	2	2	2	7	7	7	7	7	30	15	22	23	14	68.18182	51.72414	75.86207	79.31034	48.27586

15V18EC016	15	14	29	15	15	30	14	15	29	2	2	2	2	2	8.8	8.8	8.8	8.8	8.8	39.8	25.8	25.8	25.8	24.8	90.45455	88.96552	88.96552	88.96552	85.51724
15V18EC018	7	8	15	8	8	16	8	7	15	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	23.6	15.6	16.6	16.6	16.6	53.63636	53.7931	57.24138	57.24138	57.24138
15V18EC019	7	6	13	7	7	14	6	7	13	2	2	2	2	2	4.4	4.4	4.4	4.4	4.4	19.4	13.4	13.4	13.4	12.4	44.09091	46.2069	46.2069	46.2069	42.75862
15V18EC020	5	6	11	4	4	8	6	6	12	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	17.2	12.2	10.2	10.2	12.2	39.09091	42.06897	35.17241	35.17241	42.06897
15V18EC021	9	9	18	11	12	23	11	10	21	2	2	2	2	2	7.4	7.4	7.4	7.4	7.4	27.4	19.4	20.4	21.4	20.4	62.27273	66.89655	70.34483	73.7931	70.34483
15V18EC022	7	7	14	12	11	23	9	10	19	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	21.8	17.8	19.8	18.8	16.8	49.54545	61.37931	68.27586	64.82759	57.93103
15V18EC023	9	9	18	9	9	18	9	8	17	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	25.8	15.8	16.8	16.8	16.8	58.63636	54.48276	57.93103	57.93103	57.93103
15V18EC024	7	7	14	10	10	20	6	6	12	2	2	2	2	2	5.8	5.8	5.8	5.8	5.8	21.8	13.8	17.8	17.8	13.8	49.54545	47.58621	61.37931	61.37931	47.58621
15V18EE001	2	1	3	3	3	6	9	9	18	2	2	2	2	2	2.4	2.4	2.4	2.4	2.4	7.4	13.4	7.4	7.4	13.4	16.81818	46.2069	25.51724	25.51724	46.2069
15V18EE002	7	7	14	8	8	16			A	2	2	2	2	2	6	6	6	6	6	22	8	16	16	8	50	27.58621	55.17241	55.17241	27.58621
15V18EE003	9	8	17	13	12	25	11	10	21	2	2	2	2	2	6.6	6.6	6.6	6.6	6.6	25.6	18.6	21.6	20.6	19.6	58.18182	64.13793	74.48276	71.03448	67.58621
15V18EE004	13	12	25	12	13	25	9	8	17	2	2	2	2	2	5.6	5.6	5.6	5.6	5.6	32.6	15.6	19.6	20.6	16.6	74.09091	53.7931	67.58621	71.03448	57.24138
15V18EE005	5	5	10	8	8	16	5	6	11	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	16.2	12.2	14.2	14.2	11.2	36.81818	42.06897	48.96552	48.96552	38.62069
15V18EE006	8	8	16	10	10	20	8	8	16	2	2	2	2	2	6.4	6.4	6.4	6.4	6.4	24.4	16.4	18.4	18.4	16.4	55.45455	56.55172	63.44828	63.44828	56.55172
15V18EE007	7	7	14	13	13	26	6	5	11	2	2	2	2	2	3.2	3.2	3.2	3.2	3.2	19.2	10.2	18.2	18.2	11.2	43.63636	35.17241	62.75862	62.75862	38.62069
15V18EE008	5	5	10	10	10	20	4	5	9	2	2	2	2	2	4.6	4.6	4.6	4.6	4.6	16.6	11.6	16.6	16.6	10.6	37.72727	40	57.24138	57.24138	36.55172
15V18EE009	8	7	15	11	11	22	6	6	12	2	2	2	2	2	6	6	6	6	6	23	14	19	19	14	52.27273	48.27586	65.51724	65.51724	48.27586
15V18EE010	3	4	7	8	8	16	4	4	8	2	2	2	2	2	4.2	4.2	4.2	4.2	4.2	13.2	10.2	14.2	14.2	10.2	30	35.17241	48.96552	48.96552	35.17241
15V18EE011	5	5	10	9	10	19	9	8	17	2	2	2	2	2	3.6	3.6	3.6	3.6	3.6	15.6	13.6	14.6	15.6	14.6	35.45455	46.89655	50.34483	53.7931	50.34483
15V18EE012	6	5	11	8	9	17	6	7	13	2	2	2	2	2	3	3	3	3	3	16	12	13	14	11	36.36364	41.37931	44.82759	48.27586	37.93103
15V18EE013	9	8	17	6	6	12	7	7	14	2	2	2	2	2	2.2	2.2	2.2	2.2	2.2	21.2	11.2	10.2	10.2	11.2	48.18182	38.62069	35.17241	35.17241	38.62069
																									53.37823	49.3146	53.95487	53.82716	49.35717

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