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PO Attainment

Faculty Name:	**Dr. Shailendra Singh Rathore**	**Class-Sem:**	**BSC-6**	**Academic Year:**	**2022-23**
Course Name:	**MATHEMATICAL ANALYSIS**	**Course Code:**	**CMR-601**	**Program Name:**	**BSC PCM**

CO-PO MAPPING:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2			2	2			1			
CO2	2		1	1			3	3				
CO3		1	2			2	2				3	
CO4				2	1			3	2	1		
CO5	3		2		1						2	3
CO6		1		1		2	3	2	1	2		1

CO ATTAINMENT:

Dr. Shailendra Singh Rathore	Att. Level
CO1	3.00
CO2	3.00
CO3	2.40
CO4	2.20
CO5	2.09
CO6	2.20

PO ATTAINMENT :

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Overall PO Attainment	2.5	2.7	2.4	2.4	2.6	2.5	2.6	2.5	2.4	2.2	2.3	2.1

Faculty Signature

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CO Attainment

Faculty Name: Dr. Shailendra Singh Rathore **Class/Sem:** BSC-6 **Academic Year:** 2022-23

Course Name: MATHEMATICAL ANALYSIS **Course Code:** CMR-601 **Program Name:** BSC PCM

S. No.	University Reg. No.	Student Name	First Unit Test	Second Unit Test	First Class Test	Second Class Test	Best One From Unit Test	Best One Form Class Test	Internal Marks Scheme			Total Internal Marks	End Sem Exam Marks	Total Marks
									Unit Test(UT)	Attendance(AT)	Teacher Assessment(TA)			
			Theory (30)	Theory (30)	Theory (10)	Theory (10)	Theory (30)	Theory (10)	12	12	6	Theory (30)	Theory (70)	Theory (100)
1	BSP2020002	AJAY KUMARVERMA	30	24	8	7	30	8	12	11	5	28	69	97
2	BSRA2020002	AKANKSHA MISHRA	15	12	5	4	15	5	6	6	3	15	34	49
3	BSRA2020003	SURYANSH MISHRA	15	12	5	4	15	5	6	6	3	15	48	63
4	BSRA2020005	AMAN GANGWAR	28	22	8	7	28	8	11	11	5	27	54	81
5	BSRA2020006	ANUSHKACHOUDHARY	25	20	8	7	25	8	10	10	5	25	52	77
6	BSRA2020009	ANURAGSHANKHDHAR	30	24	10	8	30	10	12	12	6	30	70	100
7	BSRA2020010	ABHISHEK PANDEY	30	24	8	7	30	8	12	11	5	28	69	97
8	BSRA2020011	KOMAL GANGWAR	28	22	8	7	28	8	11	11	5	27	56	83
9	BSRA2020014	GURKARAN SINGH	13	10	3	3	13	3	5	5	2	12	61	73
10	BSRA2020015	SNEHA MANDAL	13	10	3	3	13	3	5	5	2	12	65	77
11	BSRA2020019	ABHISHEK KUMARMISHRA	30	24	10	8	30	10	12	12	6	30	56	86
12	BSRA2020021	AKANKSHA SINGH	15	12	5	4	15	5	6	6	3	15	64	79
13	BSRA2020022	KOPAL SAXENA	15	12	3	3	15	3	6	6	2	14	68	82
14	BSRA2020023	RAJAT GIRI	13	10	3	3	13	3	5	5	2	12	62	74
15	BSRA2020024	VAISHNAVIAGARWAL	13	10	3	3	13	3	5	5	2	12	62	74
16	BSRA2020025	AMAN TRIVEDI	30	24	8	7	30	8	12	11	5	28	63	91
17	BSRA2021001	KUSH DIXIT	28	22	8	7	28	8	11	11	5	27	70	97
18	BSRA2021002	LAV DIXIT	30	24	8	7	30	8	12	11	5	28	69	97
19	BSRA2020016	AJIT KUMAR	13	10	3	3	13	3	5	5	2	12	16	28
20	BSRA2020017	SHIVAM GANGWAR	13	10	3	3	13	3	5	5	2	12	35	47
		Students appeared for the examination	1	1	1	1	1	1	1	1	1	1	1	1
		Target / satisfactory mark set as benchmark	12	12	4	4	12	4	5	5	2	12	28	40
		Students scored above the target set	1	0	0	0	1	0	1	1	0	1	1	1
		% Students scored above the target set	100%	0%	0%	0%	100%	0%	100%	100%	0%	100%	100%	100%
		Attainment Level	3	1	1	1	3	1	3	3	1	3	3	3

														Overall
CO1	3				3		3	3		3	3	3		3.00
CO2	3				3		3	3		3	3	3		3.00
CO3	3		1		3	1	3	3	1	3	3	3		2.40
CO4		1		1	3	1	3	3	1	3	3	3		2.20
CO5		1	1	1	3	1	3	3	1	3	3	3		2.09
CO6		1		1	3	1	3	3	1	3	3	3		2.20

Rubric:

% Students	Level
<50%	1
50-75%	2
>75%	3

Overall attainment	2.48

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Even Semester Examination 2022-23

BSC-6 Semester

Course/Code: MATHEMATICAL ANALYSIS / CMR-601

Maximum Marks :70; Duration: 3 Hours

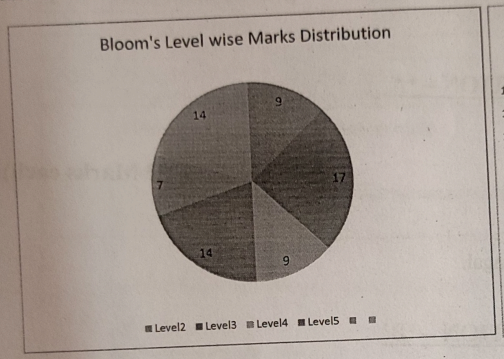
Q.No	Questions	Marks (70)	CO	BL
1-I	Define limit	01	CO1	L2
1-II	Define continuity	01	CO2	L1
1-III	Define uniform continuity.	01	CO2	L2
1-IV	Define real sequence	01	CO3	L3
1-V	Define boundedness	01	CO2	L1
1-VI	Define Taylor's theorem	01	CO1	L1
1-VII	Define supremum and infimum with example.	01	CO1	L1
2-I	Let A be any set, then	01	CO1	L1
2-II	Let be a metric space and A and B are subsets of X. Then	01	CO1	L1
2-III	Define convergent sequence with example.	01	CO1	L1
2-IV	Define ratio test for positive term series.	01	CO1	L2
2-V	Define convergent sequence with example.	01	CO1	L1
2-VI	A metric space is called …… if and only if there exists a real number k such that	01	CO1	L3
2-VII	Let be a continuous function. Then	01	CO1	L1
3-I	a) Show that the sequence OR b) Let (X,d_1) and (Y,d_2) be two metric spaces. A function f:X→Y is continuous if and only if for each closed set	7	CO2	L2
3-II	a) Prove that the space C[0,1] is a complete metric space, where the metric is defined as OR b) Prove that the set of real numbers is a metric space under usual metric.	7	CO3	L2
4-I	a) Determine the constants a and b so that the function f defined below is continuous everywhere OR b) Show that the closure of a connected set is connected.	7	CO3	L5
4-II	a) State and prove contraction mapping theorem OR b) Test the convergence of series	7	CO4	L3
5-I	a) Let (X,d) be a metric space. Then show that OR b) State and prove that the uniqueness theorem	7	CO5	L4
5-II	a) Show that function . Or b) both Sylow 3-SSG and Sylow 5-SSG is normal in G.	7	CO6	L6
6-I	a) Prove that every convergent sequence is bounded. However, converse is not true in general. OR b) Apply Cauchy's integral test to show that	7	CO5	L4
6-II	a) Prove that necessary and sufficient condition for convergent of sequence is that it is bounded and has unique limit point. OR b) Draw the graph of y = |x-1|+|x-2| in the interval [0, 3] and discuss the continuity and differentiability of the function in this interval.	7	CO6	L6

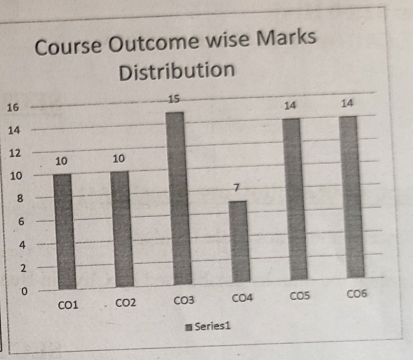
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BL – Bloom's Taxonomy Levels
(1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)
CO – Course Outcomes PO – Program Outcomes; PI Code – Performance Indicator Code

Level	Marks
Level1	9
Level2	17
Level3	9
Level4	14
Level5	7
Level6	14
Total	**70**

CO	Marks
CO1	10
CO2	10
CO3	15
CO4	7
CO5	14
CO6	14
Total	**70**





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First Unit Test 2022-23

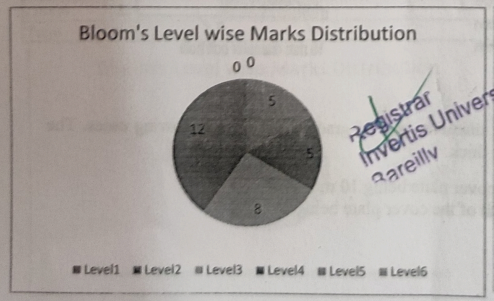
BSC-6 Semester

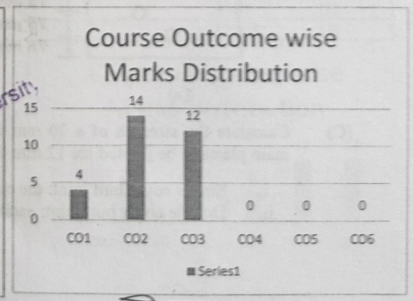
Course/Code: MATHEMATICAL ANALYSIS / CMR-601

Maximum Marks :30; Duration: 90 Minutes

Q.No	Questions	Marks (30)	CO	BL
1-I	Define real sequence	01	CO1	L1
1-II	Define boundedness	01	CO1	L1
1-III	Define convergent sequence with example.	01	CO2	L2
1-IV	Define ratio test for positive term series.	01	CO1	L2
1-V	Define convergent sequence with example.	01	CO1	L1
2-I	Define real sequence	01	CO2	L2
2-II	Define boundedness	01	CO2	L1
2-III	Define convergent sequence with example.	01	CO2	L2
2-IV	Define ratio test for positive term series.	01	CO2	L2
2-V	Define convergent sequence with example.	01	CO2	L1
3	a) Define convergent sequence with example. b) Show that the sequence c) Determine the constants a and b so that the function f defined below is continuous everywhere	08	CO2	L3
4-A	a) Prove that every convergent sequence is a cauchy sequence OR b) Show that the sequence	06	CO3	L4
4-B	a) State and prove that the uniqueness theorem. OR b) Prove that every convergent sequence is bounded. However, converse is not true in general	06	CO3	L4

Level	Marks	CO	Marks
Level1	5	CO1	4
Level2	5	CO2	14
Level3	8	CO3	12
Level4	12	CO4	0
Level5	0	CO5	0
Level6	0	CO6	0
Total	30	Total	30





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Second Unit Test 2022-23

BSC-6 Semester

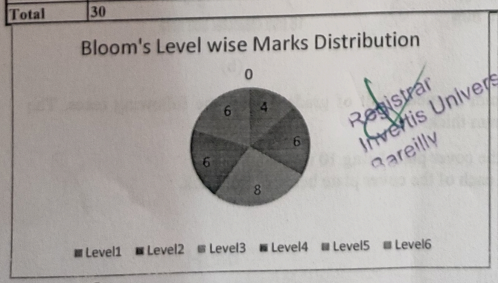
urse/Code: MATHEMATICAL ANALYSIS / CMR-601

Maximum Marks :30; Duration: 90 Minutes

Q.No	Questions	Marks (30)	CO	BL
1-I	What is a Cauchy sequence.	01	CO4	L1
1-II	Define limit	01	CO4	L1
1-III	Define continuity	01	CO4	L2
1-IV	Define uniform continuity.	01	CO4	L1
1-V	Define real sequence	01	CO4	L1
2-I	Define boundedness	01	CO4	L2
2-II	Write the Statement of Taylor's theorem for function of two variable.	01	CO5	L2
2-III	Define supremum and infimum with example.	01	CO5	L2
2-IV	Define ratio test for positive term series.	01	CO5	L2
2-V	Define convergent sequence with example.	01	CO5	L2
3	a) Write the statement of theorem of Mn –Test. OR b) Show that the closure of a connected set is connected. OR c)Evaluate	08	CO5	L3
4-A	a) Find extreme points and extreme value of f(x,y) =x3+y3-6xy. OR b) Show that the function defined by f(x) = x2 is uniformly continuous on [-2 ,2].	06	CO6	L4
4-B	a)Prove that a sequence is convergent, then its limit is unique. OR b) Determine the constants a and b so that the function f defined below is continuous everywhere	06	CO6	L5

BL – Bloom's Taxonomy Levels
(1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)
CO – Course Outcomes PO – Program Outcomes; PI Code – Performance Indicator Code

Level1	4	CO1	0
Level2	6	CO2	0
Level3	8	CO3	0
Level4	6	CO4	6
Level5	6	CO5	12
Level6	0	CO6	12
Total	**30**	**Total**	**30**



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First Class Test 2022-23

BSC-6 Semester

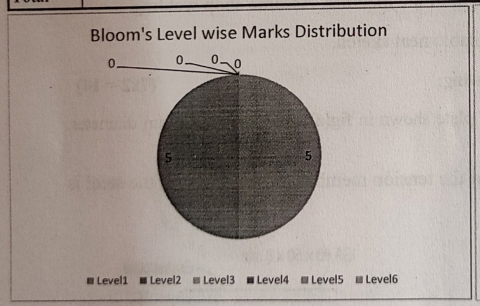
Course/Code: MATHEMATICAL ANALYSIS / CMR-601

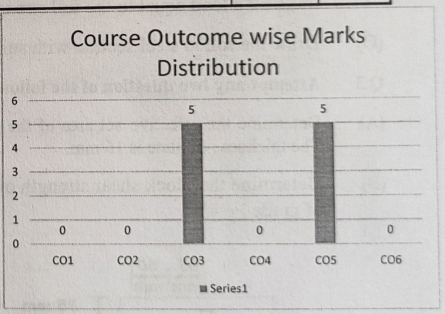
Maximum Marks :10; Duration: 30 Minutes

Q.No	Questions	Marks (10)	CO	BL
1	Prove that every convergent sequence is bounded. However, converse is not true in general	05	CO3	L2
2	Prove that every convergent sequence is a cauchy sequence	05	CO5	L1

BL – Bloom's Taxonomy Levels
(1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)
CO – Course Outcomes PO – Program Outcomes; PI Code – Performance Indicator Code

Level	Marks	CO	Marks
Level1	5	CO1	0
Level2	5	CO2	0
Level3	0	CO3	5
Level4	0	CO4	0
Level5	0	CO5	5
Level6	0	CO6	0
Total	**10**	**Total**	**10**





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Second Class Test 2022-23

BSC-6 Semester

Course/Code: MATHEMATICAL ANALYSIS / CMR-601

Maximum Marks :10; Duration: 30 Minutes

Q.No	Questions	Marks (10)	CO	BL
1	Show that the function defined by $f(x) = x^2$ is uniformly continuous on [-2 ,2].	05	CO4	L1
2	Prove that necessary and sufficient condition for convergent of sequence is that it is bounded and has unique limit point.	05	CO6	L2

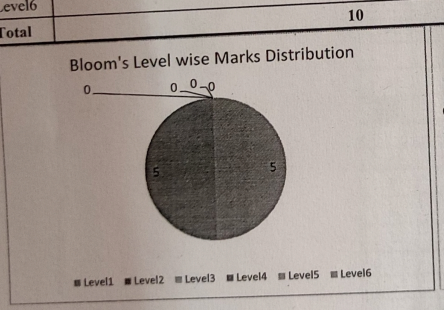
BL – Bloom's Taxonomy Levels

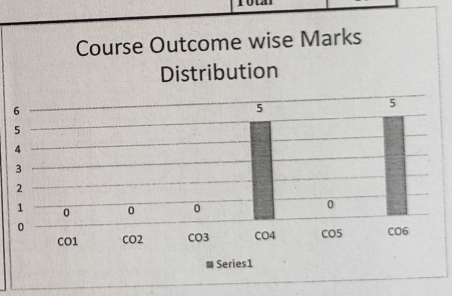
(1- Remembering, 2- Understanding, 3 – Applying, 4 – Analysing, 5 – Evaluating, 6 - Creating)

CO – Course Outcomes PO – Program Outcomes; PI Code – Performance Indicator Code

Level	Marks
Level1	5
Level2	5
Level3	0
Level4	0
Level5	0
Level6	0
Total	**10**

CO	Marks
CO1	0
CO2	0
CO3	0
CO4	5
CO5	0
CO6	5
Total	**10**





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INVERTIS UNIVERSITY BAREILLY

INVERTIS UNIVERSITY
Bareilly-Lucknow National Highway, Bareilly - 243123 (UP)
Tabulation Sheet

PROGRAM : BACHELOR OF SCIENCE (PHYSICS/CHEMISTRY/MATHEMATICS)
SEMESTER : SIXTH
SESSION : 2022-23
COLLEGE : Faculty of Sciences

Sl No.	Enrollment No.	Roll No.	Student ID	Student Name	CMR601					CMR651					CPR601					CPR602					CPR651					CSE601					CSR601					CSR602					CSR651		
					Max Marks				CR	Max Marks				CR	Max Marks				CR	Max Marks				CR	Max Marks				CR	Max Marks				CR	Max Marks				CR	Max Marks				CR	Max Marks		
					70	30	100		4	35	15	50		2	70	30	100		4	100	50	150		6	35	15	50		2	35	15	50		2	70	30	100		4	70	30	100		4	35	15	50
					E	I	T	G	CS	E	I	T	G	CS	E	I	T	G	CS	E	I	T	G	CS	E	I	T	G	CS	E	I	T	G	CS	E	I	T	G	CS	E	I	T	G	CS	E	I	T
1	204146	2010810001	BSP2020002	AJAY KUMAR VERMA	69	28	97		4	30	12	42		2																30	13	43		2	64	24	88		4	52	30	82		4	30	14	44
2	204147	2010810002	BSRA2020002	AKANKSHA MISHRA	34	15	49		4	29	13	42		2	38	21	59		4	61	25	86		6	33	14	47		2	26	8	34		2													
3	204148	2010810003	BSRA2020003	SURYANSH MISHRA	48	15	63		4	29	12	41		2																24	12	36		2	46	20	66		4	52	26	78		4	30	13	43
4	204150	2010810005	BSRA2020005	AMAN GANGWAR	54	27	81		4	29	12	41		2	34	24	58		4	84	44	128		6	32	12	44		2	28	13	41		2													
5	204151	2010810006	BSRA2020006	ANUSHKA CHOUDHARY	52	25	77		4	24	12	36		2																24	11	35		2	62	15	77		4	55	27	82		4	31	15	46
6	204154	2010810009	BSRA2020009	ANURAG SHANKHDHAR	70	30	100		4	33	13	46		2	64	30	94		4	97	50	147		6	32	13	45		2	32	13	45		2													
7	204155	2010810010	BSRA2020010	ABHISHEK PANDEY	69	28	97		4	32	13	45		2																28	13	41		2	57	26	83		4	50	30	80		4	33	15	48
8	204156	2010810011	BSRA2020011	KOMAL GANGWAR	56	27	83		4	29	13	42		2	37	25	62		4	75	48	123		6	34	14	48		2	14	11	25		2													
9	204159	2010810014	BSRA2020014	GURKARAN SINGH	61	12	73		4	27	12	39		2																27	6	33		2	34	12	46		4	36	12	48		4	28	13	41
10	204160	2010810015	BSRA2020015	SNEHA MANDAL	65	12	77		4	23	12	35		2																28	6	34		2	49	12	61		4	53	12	65		4	34	15	49
11	204164	2010810019	BSRA2020019	ABHISHEK KUMAR MISHRA	56	30	86		4	33	13	46		2	64	30	94		4	97	49	146		6	33	14	47		2	34	13	47		2													
12	204166	2010810021	BSRA2020021	AKANKSHA SINGH	64	15	79		4	31	12	43		2																26	8	34		2	60	15	75		4	62	15	77		4	34	15	49
13	204167	2010810022	BSRA2020022	KOPAL SAXENA	68	14	82		4	23	12	35		2																25	7	32		2	60	14	74		4	52	14	66		4	34	15	49
14	204168	2010810023	BSRA2020023	RAJAT GIRI	62	12	74		4	30	12	42		2	29	12	41		4	53	20	73		6	30	11	41		2	14	6	20		2													
15	204169	2010810024	BSRA2020024	VAISHNAVI AGARWAL	62	12	74		4	34	12	46		2	54	24	78		4	87	20	107		6	30	11	41		2	33	6	39		2													
16	204170	2010810025	BSRA2020025	AMAN TRIVEDI	63	28	91		4	28	13	41		2																26	13	39		2	58	24	82		4	53	26	79		4	29	13	42
17	204171	2010810026	BSRA2021001	KUSH DIXIT	70	27	97		4	29	13	42		2																30	13	43		2	59	24	83		4	62	29	91		4	32	14	46
18	204172	2010810027	BSRA2021002	LAV DIXIT	69	28	97		4	30	13	43		2																26	12	38		2	59	24	83		4	56	29	85		4	32	14	46
19	204161	2010810016	BSRA2020016	AJIT KUMAR	16	12	28		0	18	10	28		2	0	12	12		0	0	6	20	26		0	30	12	42		2	0	6	[redacted]		0													
20	204162	2010810017	BSRA2020017	SHIVAM GANGWAR	35	12	47		4	28	12	40		2																12	6	20*		0	57	12	69		4	19	12	31		0	28	13	41

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Faculty of Science
Invertis University, Bareilly (U.P.)

Controller of Examination

Registrar

Vice Chancellor

Head
Department of Applied Science
Invertis University, Bareilly (U.P.)

...SPI of Re-Appear Students are not Calculated.
Passing marks - 40% in each course
...Marks 1 - Internal Marks

CMR601 : ANALYSIS II
CSR601 : PHYSICAL CHEMISTRY II
CSR652 : INORGANIC CHEMISTRY LAB

CMR651 : MATH LAB-II
CSR602 : INORGANIC CHEMISTRY II
HVE001 : HUMAN VALUES & ETHICS

CSE601 : LATEX
CSR651 : PHYSICAL CHEMISTRY LAB

INVERTIS UNIVERSITY
Bareilly-Lucknow National Highway, Bareilly - 243123 (UP)
Tabulation Sheet

PROGRAM : BACHELOR OF SCIENCE (PHYSICS/CHEMISTRY/MATHEMATICS)
SEMESTER : SIXTH
SESSION : 2022-23
COLLEGE : Faculty of Sciences

Sl No.	Enrollment No.	Roll No.	Student ID	Student Name	CSR651		CSR652					HVE601					Grand Total	Credit Secured	SGPA	CPI	Remarks
					CR		Max Marks				CR	Max Marks				CR					
					2		35	15	50		2	35	15	0		2	550	34			
					G	CS	E	I	T	G	CS	E	I	T	G	CS					
1	204146	2010810001	BSP2020002	AJAY KUMAR VERMA		2	29	15	44		2	29	14	43		2	440	22	0.00	68.18	Pass
												23	8	31		2	317	22	0.00	57.09	Pass
2	204147	2010810002	BSRA2020002	AKANKSHA MISHRA																	
3	204148	2010810003	BSRA2020003	SURYANSH MISHRA		2	28	14	42		2	24	14	38		2	369	22	0.00	55.82	Pass
4	204150	2010810005	BSRA2020005	AMAN GANGWAR								27	14	41		2	393	22	0.00	75.36	Pass
5	204151	2010810006	BSRA2020006	ANUSHKA CHOUDHARY		2	30	14	44		2	33	14	47		2	397	22	0.00	61.82	Pass
												34	14	48		2	477	22	0.00	92.09	Pass
6	204154	2010810009	BSRA2020009	ANURAG SHANKHDHAR																	
7	204155	2010810010	BSRA2020010	ABHISHEK PANDEY		2	29	15	44		2	28	14	42		2	438	22	0.00	67.27	Pass
8	204156	2010810011	BSRA2020011	KOMAL GANGWAR								26	14	40		2	383	22	0.00	74	Pass
9	204158	2010810014	BSRA2020014	GURKARAN SINGH		2	28	14	42		2	30	6	36		2	322	22	0.00	47.73	Pass
10	204160	2010810015	BSRA2020015	SNEHA MANDAL		2	29	14	43		2	30	6	36		2	364	22	0.00	54.82	Pass
11	204164	2010810019	BSRA2020019	ABHISHEK KUMAR MISHRA								35	15	50		2	466	22	0.00	89.82	Pass
12	204166	2010810021	BSRA2020021	AKANKSHA SINGH		2	34	14	48		2	29	8	37		2	405	22	0.00	61.18	Pass
13	204167	2010810022	BSRA2020022	KOPAL SAXENA		2	32	14	46		2	32	7	39		2	384	22	0.00	58.64	Pass
14	204168	2010810023	BSRA2020023	RAJAT GIRI								24	6	30		2	291	22	0.00	52.91	Pass
15	204169	2010810024	BSRA2020024	VAISHNAVI AGARWAL								34	6	40		2	385	22	0.00	71.91	Pass
16	204170	2010810025	BSRA2020025	AMAN TRIVEDI		2	30	14	44		2	34	14	48		2	418	22	0.00	65.27	Pass
17	204171	2010810026	BSRA2021001	KUSH DIXIT		2	32	15	47		2	35	14	49		2	449	22	0.00	69.91	Pass
18	204172	2010810027	BSRA2021002	LAV DIXIT		2	30	15	45		2	33	14	47		2	437	22	0.00	68.09	Pass
19	204161	2010810016	BSRA2020016	AJIT KUMAR								14	6	20		2	142	6	0.00	–	Re-Appear- CMR601, CPR601, CPR602, CSE601
20	204162	2010810017	BSRA2020017	SHIVAM GANGWAR		2	30	15	45		2	25	6	31		2	293	16	0.00	–	PCP- CSR602

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