Appendix A. Response tables

The pairwise comparison (Best to others, i.e., o_{Bj} and Others to worst, i.e., o_{jW}) tables of health workers, Social workers, Academicians, and Common citizens.

\mathbf{DMs}	Strategies		Comparison	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10
DM1	Best	ST1	o_{Bj}	1	3	2	4	7	7	5	8	5	9
Divil	Worst	ST10	o_{jW}	9	7	5	4	3	4	5	3	5	1
DM2	Best	ST2	o_{Bj}	3	1	4	9	9	9	5	9	7	7
	Worst	ST8	o_{jW}	9	9	6	5	5	5	4	1	4	5
DM3	Best	ST2	o_{Bj}	3	1	5	7	5	8	4	7	5	8
21.13	Worst	ST10	o_{jW}	7	9	7	4	5	5	3	3	3	1
DM4	Best	ST2	o_{Bj}	5	1	5	9	9	5	3	6	7	9
	Worst	ST10	o_{jW}	7	8	3	5	3	3	7	3	4	1
DM5	Best	ST7	o_{Bj}	3	3	3	5	7	2	1	8	7	1
21.13	Worst	ST9	o_{jW}	8	7	4	1	2	6	9	4	1	5

Table A.9: Preference Comparisons by Health-workers

DMs	Strate	gies	Comparison	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10
DM6	Best	ST1	o_{Bj}	1	3	5	5	7	8	3	3	8	9
	Worst	ST10	o_{jW}	9	7	5	4	3	7	9	5	1	1
DM7	Best	ST6	o_{Bj}	3	2	3	6	6	1	2	5	9	7
	Worst	ST9	o_{jW}	8	8	7	5	2	9	7	5	1	3
DM8	Best	ST7	o_{Bj}	2	4	5	5	7	5	1	8	7	8
Divio	Worst	ST8	o_{jW}	9	7	5	7	3	7	9	1	3	2
DM9	Best	ST7	o_{Bj}	3	3	5	4	8	5	1	7	9	9
17.01.7	Worst	ST9	o_{jW}	7	5	5	5	1	5	8	3	1	1
DM10	Best	ST7	o_{Bj}	1	1	2	9	9	6	1	5	9	7
	Worst	ST9	o_{jW}	7	6	6	3	3	3	9	4	1	3

Table A.10: Preference Comparisons by Social Workers

\mathbf{DMs}	Strate	gies	Comparison	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10
DM11	Best	ST1	o_{Bj}	1	4	5	5	7	8	3	3	9	7
	Worst	ST9	o_{jW}	9	7	5	6	3	7	7	5	1	3
DM12	Best	ST1	o_{Bj}	1	3	3	6	6	7	5	5	9	9
	Worst	ST10	o_{jW}	8	8	7	5	2	6	7	5	2	1
DM13	Best	ST1	o_{Bj}	1	3	5	5	7	7	3	8	7	8
Biiiio	Worst	ST8	o_{jW}	9	7	5	7	3	7	6	1	4	4
DM14	Best	ST2	o_{Bj}	3	1	5	4	8	5	3	6	8	9
	Worst	ST10	o_{jW}	9	5	5	5	1	5	7	3	3	1
DM15	Best	ST1	o_{Bj}	1	5	2	9	9	8	1	3	5	8
Divilo	Worst	ST4	o_{jW}	8	6	6	1	3	3	5	4	3	3

Table A.11: Preference Comparisons by Academicians

DMs	Strate	gies	Comparison	ST1	ST2	ST3	ST4	ST5	ST6	ST7	ST8	ST9	ST10
DM16	Best	ST1	o_{Bj}	1	3	5	4	5	5	3	5	5	9
	Worst	ST10	o_{jW}	9	7	7	3	3	5	8	7	3	1
DM17	Best	ST1	o_{Bj}	1	3	5	7	5	5	4	7	5	9
.,	Worst	ST10	o_{jW}	9	7	5	5	2	5	7	6	3	1
DM18	Best	ST1	o_{Bj}	1	4	4	7	9	9	5	7	9	7
Divilo	Worst	ST9	o_{jW}	9	8	7	5	2	3	5	3	1	3
DM19	Best	ST1	o_{Bj}	1	5	5	5	7	7	3	5	3	9
	Worst	ST10	o_{jW}	9	9	4	3	3	3	5	7	4	1
DM20	Best	ST1	o_{Bj}	1	2	3	5	9	5	3	4	3	9
D11120	Worst	ST10	o_{jW}	9	7	5	4	3	5	5	3	3	1

Table A.12: Preference Comparisons by Common citizens

Appendix B. Mathematical formulation of models:

Model for Health workers:

Min
$$\xi$$
 (B.1) subject to,
$$\xi \geq \xi_k \quad \forall \ k \in D_1 = \{1, 2, 3, 4, 5\}$$
 (B.2)
$$W_B - W_j \times o_{Bj} \leq \xi_k, \quad W_B - W_j \times o_{Bj} \geq -\xi_k, \quad \forall j \in J, \ k \in D_1$$
 (B.3)
$$W_j - W_W \times o_{jW} \leq \xi_k, \quad W_j - W_W \times o_{jW} \geq -\xi_k, \quad \forall j \in J, \ k \in D_1$$
 (B.4)
$$\sum_j W_j = 1, \quad W_j \geq 0, \ \forall j \in J$$
 (B.5)
$$\xi_k \geq 0, \ \forall \ k \in D_1.$$
 (B.6) (B.7)

Model for Social workers:

Min
$$\xi$$
 (B.8) subject to,
$$\xi \geq \xi_k \quad \forall \ k \in D_2 = \{6, 7, 8, 9, 10\}$$
 (B.9)
$$W_B - W_j \times o_{Bj} \leq \xi_k, \quad W_B - W_j \times o_{Bj} \geq -\xi_k, \quad \forall j \in J, \ k \in D_2$$
 (B.10)
$$W_j - W_W \times o_{jW} \leq \xi_k, \quad W_j - W_W \times o_{jW} \geq -\xi_k, \quad \forall j \in J, \ k \in D_2$$
 (B.11)
$$\sum_j W_j = 1, \quad W_j \geq 0, \quad \forall j \in J$$
 (B.12)
$$\xi_k \geq 0, \ \forall \ k \in D_2.$$
 (B.13) (B.14)

Model for Academicians:

Min
$$\xi$$
 (B.15) subject to,
$$\xi \geq \xi_k \quad \forall \ k \in D_3 = \{11, 12, 13, 14, 15\}$$
 (B.16)
$$W_B - W_j \times o_{Bj} \leq \xi_k, \quad W_B - W_j \times o_{Bj} \geq -\xi_k, \quad \forall j \in J, \ k \in D_3$$
 (B.17)
$$W_j - W_W \times o_{jW} \leq \xi_k, \quad W_j - W_W \times o_{jW} \geq -\xi_k, \quad \forall j \in J, \ k \in D_3$$
 (B.18)
$$\sum_j W_j = 1, \quad W_j \geq 0, \quad \forall j \in J$$
 (B.19)
$$\xi_k \geq 0, \ \forall \ k \in D_3.$$
 (B.20) (B.21)

Model for Common citizens (Others):

Min
$$\xi$$
 subject to,
$$\xi \geq \xi_k \quad \forall \ k \in D_4 = \{16, 17, 18, 19, 20\}$$
 (B.23)
$$W_B - W_j \times o_{Bj} \leq \xi_k, \quad W_B - W_j \times o_{Bj} \geq -\xi_k, \quad \forall j \in J, \ k \in D_4$$
 (B.24)
$$W_j - W_W \times o_{jW} \leq \xi_k, \quad W_j - W_W \times o_{jW} \geq -\xi_k, \quad \forall j \in J, \ k \in D_4$$
 (B.25)
$$\sum_j W_j = 1, \quad W_j \geq 0, \ \forall j \in J$$
 (B.26)
$$\xi_k \geq 0, \ \forall \ k \in D_4.$$
 (B.27) (B.28)

Appendix B.

Section 1	
Name (Optional)	
Gender	
Education	
Email Address	
Current City	
Country	
Profession	
Experience	

Profe	ession										
Expe	rience										
]						
Section	on 2										
Q 1.		(where 1 being	the least and	5 being the highest), how dar	gerous do you think is the						
	Novel Corona Virus	Epidemic (CO	VID-19) for r	mankind?							
	Less Impact	O 1 O 2	03 04	○5 High Impact							
	Ecss impact	01 02	0.	Or mpuce							
Q 2.			t challenging a	area for authorities to control	outbreak of COVID-19.						
0	Practicing Social Dis	_									
Ō	•			ctive equipment in hospitals							
0	Controlling Prices and ensuring delivery/availability of foods and medicines										
0	Financial support to daily wagers or unemployed										
0	Timely providing right information to public for awareness and precautions										
0	Precisely measure the overall impact of COVID-19 Complete lockdown for a suitable time period										
0				and their movement in comn	aunity						
Ö	Ensuring smooth fur				lunity						
Ŏ	Support to Banks, St	_	_	ii engine							
Q 3.	* *			n Q2. (you can select multipl	e options)						
	Survival of humanity				<u>*</u>						
	Feeding the poor and	d needy is very	important								
	Readiness of hospita	als and health co	enters very im	portant							
	Checking against ho										
				control panicking and fake ne	WS						
	Measuring the impac										
	Complete lockdown										
	In a large country, d										
			vities must go	o on for the country to run							
	Any other please spe	ecity									
	This section consists	s of identified c	hallenges and	strategies that could directly	impact to tackle the Covid-						
	19 outbreak.	, or racinimou c	manonges and	strategies that could unconj	impact to tacking the Covid						
		ven Likert scale	to rate the id	entified challenges and strate	gies based on your						
	understanding and ex			<i>G</i>	J						
	Note: The goal of the	is survey is to g	get the respon	se whether you consider give	n factors as challenging to						

	tackle the Covid-19 or you disagree with them. Moreov		ou can	opt th	e inter	medi	ate cat	egor	y if yo	u
	have doubt between the relationships of their important	ce.								
	EI = Equally Important, IEM = Intermediate, MI = Mo	oderat	elv Imr	ortan	t IMI	= Int	ermed	liate	T =	
	Important, IVI = Intermediate, VI = Very Important, IV		•							
Q 4.	Please rate importance of the most challenging area									
_	selected in Q2 in comparison with other challenging									
	areas. (Keep equal important while comparing most	EI	IEM	MI	IMI	IM	IVI	VI	IVE	EI
	challenging area).									
1	Practicing Social Distancing	0	0	0	0	0	0	0	0	0
2	Availability of Man Power, ventilators and protective	0	0	0	0	0	0	0	0	0
_	equipment in hospitals		_			_		_		
3	Controlling Prices and ensuring delivery/availability	0	0	0	0	0	0	0	0	0
	of foods and medicines									
4	Financial support to daily wagers or unemployed	0	0	0	0	0	0	0	0	0
5	Timely providing right information to public for	0	0	0	0	0	0	0	0	0
	awareness and precautions			0						
7	Precisely measure the overall impact of COVID-19 Complete lockdown for a suitable time period	0	0	0	0	0	0	0	0	0
8	Digital Surveillance of Infected/Doubtful People and	0	0	0	0	0	0	0	0	0
O	their movement in community		U			U			U	U
9	Ensuring smooth functioning of economic growth	0	0	0	0	0	0	0	0	0
	engine									
10	Support to Banks, Startups and MSMEs	0	0	0	0	0	0	0	0	0
0 - 4	2									
Section	As an expert, please select the least challenging area f	or out	horitio	1 to 00	ntrol.	outhe	olt of	COI	/ID 10)
Q 5.	(Please select the option which is different from the m							COV	/ID-19	, .
0	Financial support to daily wagers or unemployed	iosi ci	ianciigi	ing ai	ca cho	SCII II	1 Q2).			
Ŏ	Timely providing right information to public for awar	eness	and pre	ecanti	ons					
Ŏ	Precisely measure the overall impact of COVID-19	-11000	and pro	couuti	0110					
0	Complete lockdown for a suitable time period									
0	Digital Surveillance of Infected/Doubtful People and t	their r	novem	ent in	comm	ninity	,			

Q 5.	As an expert, please select the least challenging area for authorities to control outbreak of COVID-19.								
	(Please select the option which is different from the most challenging area chosen in Q2).								
0	Financial support to daily wagers or unemployed								
0	Timely providing right information to public for awareness and precautions								
0	Precisely measure the overall impact of COVID-19								
0	Complete lockdown for a suitable time period								
0	Digital Surveillance of Infected/Doubtful People and their movement in community								
0	Practicing Social Distancing								
0	Support to Banks, Startups and MSMEs								
0	Ensuring smooth functioning of economic growth engine								
0	Availability of Man Power, ventilators and protective equipment in hospitals								
0	Controlling Prices and ensuring delivery/availability of foods and medicines								
Q 6.	Reasons for selecting the least challenging area in Q5. (you can select multiple options)								
	Feeding the poor and needy is very important								
	Checking against hoarding is important								
	Providing right information is very important to check and panicking and fake news								
	Measuring the impact is very important to decide further steps								
	In a large country, digital surveillance is the only option								
	Businesses and other economic activities must go on for the country to run								
	Survival of humanity is top-most priority								
	Readiness of hospitals and health centers very important								
	Complete lockdown is the only option to control community spread								
	Any other please specify								

Q 7.	Please rate importance of other challenging areas										
	compared to the least challenging area selected in										
	Q5. (Keep equal important while comparing least	EI	IEM	MI	IMI	IM	IVI	VI	IVE	EI	
	challenging area)		_			_		_	_		
1	Financial support to daily wagers or unemployed	0	0	0	0	0	0	0	0	0	
2	Timely providing right information to public for	0	0	0	0	0	0	0	0	0	
_	awareness and precautions		_			_		-	-		
3	Precisely measure the overall impact of COVID-19	0	0	0	0	0	0	0	0	0	
4	Complete lockdown for a suitable time period	0	0	0	0	0	0	0	0	0	
5	Digital Surveillance of Infected/Doubtful People and	0	0	0	0	0	0	0	0	0	
	their movement in community			_	_						
6	Practicing Social Distancing	0	0	0	0	0	0	0	0	0	
7	Support to Banks, Startups and MSMEs	0	0	0	0	0	0	0	0	0	
8	Ensuring smooth functioning of economic growth	0	0	0	0	0	0	0	0	0	
	engine										
9	Availability of Man Power, ventilators and	0	0	0	0	0	0	0	0	0	
	protective equipment in hospitals										
10	Controlling Prices and ensuring delivery/availability	0	0	0	0	0	0	0	0	0	
	of foods and medicines										
Q 8.	According to you, which of the following strategies are important to tackle the spread of COVID-19?										
	Please tick on the appropriate box(You can choose more than one also)										
	Washing hands regularly with soap or using hand sanitizers and maintaining hygiene at places which										
	offer essential services										
	Use of Masks and Gloves										
	Avoid travelling or at least avoid shared modes of tran	-			1	. 1 .					
	Stop all work places except essential services and wor			e usin	g digi	tal tec	chnolo	gies			
	A complete lockdown of whole country for 3 weeks of	r more	e								
	Maintain social distancing										
	Use of ecommerce facilities as much as possible										
	Avoid transaction of currency notes and go for digital	transa	actions								
	Don't take medicines without consulting doctors	. 1	1.								
	Verify messages before posting or forwarding on social			•	1.4.	1	1 4	- 1 - 4			
Q 9.	Please rate whether according you regular hand wash			ion m	ay iate	er ieac	i to an	xiety	' ,		
	germaphobia or even Obsessive-Compulsive Disorder	(OCI	J)!								
0	Very likely										
	Somewhat Likely										
0	Very less likely Not at all										
0	Don't Know										
0		gost :	n order	to ac	ntoin (COM	D 100) D1aa	ngo.		
Q 10	Any other important measure that you may like to sug	_	n oraer	10 00	main (D-19	Piea	ise		
10.	answer in one sentence only (maximum 10 words allo	wed)									