

TI	A	B	C	D	E	F	G	H
W	15	14	13	13	12	12	11	10
NW	17.07	16.76	16.34	15.89	15.76	14.93	14.63	14.14
JW	9.08	8.41	7.94	7.44	7.38	6.68	6.54	6.32
$cosW$	8.54	7.63	6.83	6.70	6.14	5.87	5.40	5
WW	20	18	16	16	14	14	12	10
NWW	23.54	23.38	22.17	22.94	20.88	21.46	19.32	17.07
JWW	8.71	7.86	7.18	6.90	6.47	6.14	5.67	5.16
$cosWW$	8.02	6.92	5.84	6.03	5.04	5.11	4.34	3.75
H	7.5	8	8.5	8.5	9	9	9.5	10
NH	6.04	6.46	6.52	5.60	6.72	4.31	5.59	7.07
JH	11.12	12.34	12.93	11.35	13.86	9.64	12.49	15.81
$cosH$	12.07	14.32	15.47	13.30	17.04	11.05	15.23	20.00
J	2.08	2.19	2.49	2.39	2.80	2.71	3.14	3.57
NJ	1.83	1.78	1.85	1.93	2.01	2.13	2.29	2.53
JJ	3.44	3.57	3.84	4.14	4.32	4.77	5.12	5.65
$cosJ$	3.66	3.94	4.46	4.60	5.18	5.43	6.21	7.14
PRS	8.96	8.59	8.19	8.23	7.78	7.82	7.38	6.93
$PRS(ND)$	9.61	9.51	9.37	9.25	9.19	8.92	8.81	8.66
$PRS(JD)$	6.45	6.07	5.77	5.45	5.41	4.90	4.79	4.64
$PRS(cosD)$	6.14	5.57	5.02	4.93	4.49	4.26	3.84	3.47

Table 1: The values of the distance matrix-based topological indices evaluated on the set of all connected cyclic graphs with five vertices.

TI	A	B	C	D	E	F	G	H
$B1$	0.33	0.43	0.54	0.54	0.67	0.67	0.82	1
$NB1$	0.29	0.36	0.43	0.44	0.51	0.54	0.61	0.71
$JB1$	0.55	0.71	0.88	0.94	1.08	1.20	1.38	1.58
$cosB1$	0.59	0.79	1.03	1.04	1.30	1.36	1.67	2
$B2$	1.67	2.20	2.87	2.73	3.53	3.40	4.20	5
$NB2$	1.46	1.78	2.11	2.21	2.52	2.67	3.06	3.54
$JB2$	2.75	3.57	4.39	4.74	5.40	5.97	6.85	7.91
$cosB2$	2.93	3.94	5.10	5.25	6.49	6.79	8.29	10

Table 2: The values of the distance and adjacency matrix-based topological indices evaluated on the set of all connected cyclic graphs with five vertices.

TI	A	B	C	D	E	F	G	H
$\rho(D)$	6.00	5.64	5.29	5.22	4.90	4.83	4.45	4.00
$\rho(ND)$	6.83	6.71	6.56	6.36	6.33	6.00	5.89	5.66
$\rho(JD)$	3.63	3.37	3.18	2.98	2.96	2.68	2.63	2.53
$\rho(\cos D)$	3.41	3.05	2.73	2.68	2.46	2.35	2.17	2.00
DE	12.00	11.27	10.59	10.77	9.80	9.66	8.90	8.00
NDE	13.66	13.43	13.13	12.71	12.66	12.00	11.77	11.31
JDE	7.27	6.73	6.35	5.96	5.91	5.37	5.26	5.06
$\cos DE$	6.83	6.10	5.47	5.36	4.93	4.70	4.34	4.00
DEE	404.94	281.70	200.31	187.42	135.96	126.72	87.09	56.07
$NDEE$	924.62	824.39	709.92	577.34	561.00	405.58	361.62	287.22
$JDEE$	39.47	30.77	25.82	21.97	21.17	17.21	16.23	14.68
$\cos DEE$	32.19	23.19	17.50	17.06	13.97	13.19	11.27	9.82

Table 3: The values of the eigenvalue-based topological indices evaluated on the set of all connected cyclic graphs with five vertices.

TI	A	B	C	D	E	F	G	H
Z'	127	101	97	82	82	65	62	50
NZ'	279.45	234.97	232.85	122.83	208.32	77.00	117.57	160.20
JZ'	36.11	27.60	23.67	16.15	19.29	10.89	12.30	12.86
$\cos Z'$	28.75	19.63	15.04	11.87	11.47	8.12	7.71	7.06

Table 4: The values of the characteristic polynomial-based topological indices evaluated on the set of all connected cyclic graphs with five vertices.

TI	A	B	C	D	E	F	G	H
H_D^n	9.59	9.60	9.68	9.61	9.76	9.69	9.84	10.00
H_N^n	9.89	9.75	9.82	8.95	9.83	8.33	9.15	10.00
H_J^n	9.96	9.88	9.92	9.07	9.93	8.33	9.15	10.00
H_{\cos}^n	9.89	9.74	9.84	8.94	9.85	8.31	9.13	10.00

Table 5: The values of the Information Theory-based topological indices evaluated on the set of all connected cyclic graphs with five vertices.