– ¯ Ô M § ª H

2019 15

Ä2019 Å

2019 9

1

1

2

3

2019 7 9

Ä2019 Å

7

9

7 9

1

3

1.

1 6000

2 4000

3 2500

2.

1 15000 /

10000 /

2 8000 /

3 5000 /

4 4000 / 2500 /

1500 /

5

6 1000 /

1

2

3

20%

4 80

2

1

1

2

2

1000 2

1

1 90%

2 95%

3 90%

4 35%

5

6

7

2

20%

1.

2.

3.

4. 60

5.

6. 70 2020 9 1

75

7.

1.

80

1

2 90

3

4

5

6

7 1 SCI EI

2 EI ISSHP

3

ISTP

8

2.

1 10%

2 10%

3

3.

1 25%

2 35%

3

4.

1 10%

15%

2 20%

25%

3 33%

38%

5.

1 33%

2 38%

3

6.

1 55%

2 10

35%

2.

20%

2%

6%

12%

3.

4.

40%

1.

4% 20%

30%

2.

12% 40%

1

S D

Z T

20% 65% 15%

S

S = 0. 20D + 0. 65Z + 0. 15T

D

D = D1+D2–D3

D1—

D2—

D3—

D1

65

10% 60% 30%

		6. 0–5. 4	5. 3–4. 5	4. 4
		7. 0–6. 3	6. 2–5 3	5. 2
		6. 0–5. 4	5. 3–4. 5	4. 4
		5. 0–4. 5	4. 4–3. 8	3. 7
		7. 0–6. 3	6. 2–5. 3	5. 2
		6. 0–5. 4	5. 3–4. 5	4. 4
		7. 0–6. 3	6. 2–5. 3	5. 2
		5. 0–4. 5	4. 4–3. 8	3. 7
		6. 0–5. 4	5. 3–4. 5	4. 4
		5. 0–4. 5	4. 4–3. 8	3. 7
		5. 0–4. 5	4. 4–3. 8	3. 7

D2

35

1.

1

	15
9 3	12
	7
	4
	4
	2

2

	12	10	8
	9	7	6

2.

	8–10	6–7	4–5	2 3
	6–7	4–5	2–3	1 1.5

3.

1

	1		**2**		**3 4**	
	8	6	5	3	3	2
	6	3	3	2	2	1.5
	3	2	2	1.5	1.5	1
	2	1.5	1.5	1	1	0.5

2

	1	2	3 4
	8	6	3
	6	3	2
	3	2	1. 5
	2	1. 5	1

4.

1

0. 5 /

2 2. 0 / 4. 0

3 1–15

4

0. 5–0. 6 / 0. 4–0. 5 /

D3

1.

		2
		4
		8
		20
		40
		50
		60

2.

	10	8
	8	6
	5	3

$$Z = 2Z1 + Z2$$

Z1—

Z2—

$$Z1 = \frac{\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad}{100}$$

95 85

75 65 0 80

0

0

Z

T

Z2

1.

1

	1	6	4.5	3.5
	2	5	3.5	2.5
	3 4	3	2.5	1.5
	1	5	3.5	2
	2	3	2	1.5
	3 4	2	1.5	1
	1	3	2	1.5
	2	2	1.5	1
	3 4	1	0.5	
	1	1.5	1	
	2 3 4	0.5		

3

2.

1

JCR SCI

EI

2

JCR SCI EI	8	5	3
EI ISSHP	6	4	2
ISTP	4	2	1
	2	1	0
	1	0	0

3.

			1		**2 3**			
	8	3	6	3	4	1.5	1	0.5
	4	2	2	1	1.5	1	0.5	0.25
	2	1	1	0.5	0.5	0	0	0

T

T = T1 + T2 + T3

T1—

T2—

T3—

T1

$$T1 = \frac{\text{——————————————————}}{2} \times 0.55$$

T1 0

T2

10% 50% 40%

1. 12

18

2. 51

34

Т3

15

1.

1

	10
	9
	7
	5
	4

2

	10	8
	9	7
	7	5
	5	4
	4	3

2.

1

	1		**2**		**3 4**	
	6	4	5	3	3	2

	5	3	3	2	2	1.5
	3	2	2	1.5	1.5	1
	2	1.5	1.5	1	1	0.5

2

	1–3	**4–6**	**7–8**
	6	5	3
	5	3	2
	3	2	1
	2	1	0.5

3.

1

	5.0
	2.5
	2.0
	1.0

2

	4.0	3.0
	3.0	2.0
	2.0	1.5
	1.5	1.0

T

1.

1

	21
	18
	15
	12
	9

2

	20	18
	17	15
	14	12
	11	9
	8	7

2.

1

	1		**2**		**3 4**	
	6	4	5	3	3	2
	5	3	3	2	2	1. 5
	3	2	2	1. 5	1. 5	1
	2	1. 5	1. 5	1	1	0. 5

2

	1–3	**4–6**	**7–8**
	6	5	3
	5	3	2
	3	2	1. 5
	2	1. 5	1

3.

1

	6
	5
	3
	1

2

	5	4
	4	3
	3	1
	1	0. 5

2

1

2

10

2

1 5

2 10% 10%

–30% 30% 30% 30% –60% 60% 60%

5 8 10

3 3%

3% –5% 5% 5% 5% –8% 8% 8%

5 8 10

4 20%

20% –50% 50% 50% 5 8

5 5% 5% – 6%

6% 6% 6% –8% 8% 8% 5

10 15

3

1

8–10

2 10

3 10

3 3

1

1

10–15

2 5–9

2

1

6

2 10–20

3

1

15–20

2 8–12

3

15 10

4

20 15

5

2–4

1 30–50

2 2

3 30

4 98% 98% 95%

95% –98% 98% 90% 90% –95% 95%

50 35 25

= ——————————

1

5

2

5 4 3

1 1. 5

1. 80%
80% –90% 90% 90% 90% 10
15

2 50%
50% 20%–50% 8 5

3
5 3

4 70% 70%
–50% 50% 50% 50% 10 15

1 6

2
1–4 20 15 10 5

3 1–6
4 3 2. 5 2 1. 5 1
1 1. 5

4 1–4
4 3 2 1
1 1. 5

5 95% 95% –90% 90%
90% 5 10

3 5

4	45
8	55
15	70
35	

3

ACM ACM–ICPC	
ACM ACM–ICPC	
MCM/ICM	
Jessup	
+	
IBM	
RoboMaster	

DV	
+	

+	

2019 7 9