2020

1001011

W fi ffb ffb

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20%+ 30%+ 50%

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		30%		7-1 8-1
		50%		7-1 8-1
40%		100%		7-1 8-1

0.6

$$= \frac{\times \quad + \qquad \times}{\times \left(\quad + \quad \right)}$$

Ai= i

Bi= i

1. 1-4 [M]. 1991

2. 1-3 [M]. 1995

3. 1-3 [M]. 2006

4. 1-3 [M]. 2016

5. [M]. 2018

6. [M].

2019

2020.08

1002012

1002012

Introduction to Chinese Modern and Contemporary History

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5		

= 60%+ 40% =

20%+ 30%+ 50%

	/		/	
60%		20%	20 5	8-1
		30%		8-1
		50%		8-1

40%		100%		8-1

0.6

$$i = \frac{\times Ai + \times Bi}{100 \times (Ai + Bi)}$$

Ai= i

Bi= i

1. . [M]. 1998

2. 1-4 [M]. 1991

3. 1-3 [M]. 1995

4. [M]. 2018

5. [M].

2019

2020.08

1002013

1002013

ffb **fi** **fti**

$$\text{i} \qquad = \frac{\times \text{Ai} + \qquad \times \text{Bi}}{100 \times (\text{Ai} + \text{Bi})}$$

1001014

1001014

ffb fiffb W ffW fi fi fi fi

fi fi fi

$$课程目标达成度 = \frac{平时成绩 \times Ai + 课程实践成绩 \times Bi + 期末考试成绩 \times Ci}{100 \times (Ai + Bi + Ci)}$$

1002915	1002925	1002935	1002945

1002915 1002925 1002935 1002945

Situation and Policy

1002915 1002925

1002935 1002945

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32

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6-1 7-1 8-1

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6-1								
7-1								
8-1								

1		1 2 3	6-1 7-1 8-1	8	0
2		1 2 3	6-1 7-1 8-1	8	
3		1 2 3	6-1 7-1 8-1	8	
4		1 2 3	6-1 7-1 8-1	8	
				32	0

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1		1 2 3 4
2		1 2 3 4
3		1 2
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5		1 1/3 2 1/3 3 40 4 0.6

8 0.5 32 2

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50%		100%	25	6-1 7-1 8-1
50%		100%	25	6-1 7-1 8-1

= 50% 50% = 50%

50%

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50%		50%	25	6-1 7-1 8-1
		50%	25	6-1 7-1 8-1
50%		100%		6-1 7-1 8-1

0.6

$$\text{课程目标 i 达成度} = \frac{\text{平时成绩} \times \text{Ai} + \text{期末成绩} \times \text{Bi}}{100 \times (\text{Ai} + \text{Bi})}$$

Ai= i

Bi= i

1.

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4. 2018

5. 2019

6.

1101010

1101010

Physical Education I

2020 8

1	: 1. 2. 3. 4.			4		1 2
2	1. 2. 3. 24 4.		24	26		1 2

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				8 9

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3.24

1. . [M]. 2013.

2020.08

1101020

1101020

ffb

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180

1. . [M]. 2013.

I II

2020.08

1102010

ffb

1	: 1. 2. 3.			4		1 2
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				8 9
				8 9

1. . [M]. 2013.

2020.08

1102020

1102020

ffb

1	: 1. 2. 3.			4		1 2
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				8 9
				8 9

1. . [M]. 2013.

2020.08

1103020

1103010

Physical Education

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1. . [M]. 2013.

2020.08

1103020

Physical Education

+

3 4

1	: 1. 2. 3.			2		1 2
2				16		1 2

1. . [M]. 2013.

0605001

0605001 B I

College English B(I)

4

45

2-3 10-3 12-2(

)

= ×50%+ ×50%

1 3 2015

2 3 2013

3 2 2010

4 3

2015

1 / http://www.icourse163.org/course/CZU-1001755263

2

https://bbclass.czu.cn/webapps/blackboard/content/listContentEditable.jsp?content_id=_6533

4_1&course_id=_1822_1

3 - Curriculum Center

http://www.jingpinke.com/xpe/portal/35b1a2a2-120d-1000-88a3-254b8298559b

4 -

http://www.xuetangx.com

5 CNMOOC_

http://www.cnmooc.org/home/index.mooc

2020.09

0605002

0605002 B II

College English B(II)

4

48

B (I)

2-3 10-3 12-2(

)

1		1 2	2-3 10-3	8	
2		1 2	2-3 10-3	7	
3		1 2	2-3 10-3	15	
4		1 2	2-3 10-3	7	
5		1 2	2-3 10-3	6	
6		3	12-2	5	
				48	

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1 3 2015

2 3 2013

3 2 2010

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2015

1 / http://www.icourse163.org/course/CZU-1001755263

2

https://bbclass.czu.cn/webapps/blackboard/content/listContentEditable.jsp?content_id=_6533

4_1&course_id=_1822_1

3 - Curriculum Center

http://www.jingpinke.com/xpe/portal/35b1a2a2-120d-1000-88a3-254b8298559b

4 -

http://www.xuetangx.com

5 CNMOOC_ http://www.cnmooc.org/home/index.mooc

2020.09

0801003 B

Advanced Mathematics B(I)

0801003

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80 80 0 0

2014.7

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1-1	√	√	√	√	√			

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1.

1 Lagrange

2 L’Hospital

3

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1 Lagrange L’Hospital

2

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3 Newton Leibniz

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1		1-3	1-1	18	
2		1-5	1-1	12	
3		1-5	1-1	16	
4		1-3	1-1	14	
5		1-3	1-1	12	
6		1-5	1-1	8	

1.

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1. Г.М

2.

2020.09

0801004

0801004 B

Advanced Mathematics B(II)

0801004

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64 64 0 0

2014.7

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	1	2	3	4	5			
1-1	√	√	√	√	√			

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2		1-5	1-1	18	
3		1-5	1-1	16	
4		1-3	1-1	16	
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1. Г.М

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2020.09

0802003

College Physics B I

0802003

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7	-		9	/ /	**1 2**

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			15%			
				20%		
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2.

1. . ( )( ). 2014.
2. . ( )(5). 2017.
3. . . 2011.
4. . ( ). ,2015.
5. , . ( )( ). 2006.
6. , . ( ). ,2004.
7. . ( ). 2007.

2020.07

1			3	/ /	**1 2**
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1. . ( )( ). 2014.
2. . ( )(5). 2017.
3. . . 2011.
4. . ( ). ,2015.
5. , . ( )( ). 2006.
6. , . ( ). ,2004.
7. . ( ). 2007.

2020.07

0802603

0802603 B

(**Experiments of College Physics B (I**)

0802603

1

18

2017

1	**1**	**4.2**	**4**

1			3	/ /	**1**

2			3	/ / /	**1**
3			3	/ / /	**1**
4			3	/ / /	**1**
5			3	/ / /	**1**
6			3	/ / /	**1**
7			3	/ / /	**1**
8			3	/ / /	**1**
9			3	/ / /	**1**

	18	3	5		3

1.

2.

1		1. 2. 3.
2		1. 2.
3		1. 2. 3. 1. 2. 3.

4		
5		1. 1/3 2. 1/3

= ×30% +

×70%

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	30%	1 2	30%			
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			30%			
			20%			
	100%		100%			

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[1] 2017

[2] 2014

[3] 2006

[4]

2008

[5] 2008

[6] 2010

[7] 2003

[8] 2004

[9] 2009

[10] 2005

[11] 2008

2020.07

0802604

0802604 B

Experiments of College Physics B(II)

0802604

1

18

2017

1	**1**	**4.2**	**4**

1			3	/ / /	**1**

2			3	/ / /	**1**
3			3	/ / /	**1**

4

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2		1. 2.

5		1. 1/3 2. 1/3

= ×20% +

×50% + ×30%

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	50%		15%			
			20%			
			15%			
	30%		30%			
	100%		100%			

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[1] 2017

[2] 2014

[3] 2006

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[6] 2010

[7] 2003

[8] 2004

[9] 2009

[10] 2005

[11] 2008

2020.07

:0301004

0301004

C

2018 12

C

C

1. C

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1-3

5-1

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)

	1	2

C

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1 C

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1 C

2 [main()]

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1 C

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3

4 (float double)

5

6

7

2.

1 C

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3

4 (float double)

5

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3.

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C

1.

1

2 /

3

if

if

switch break

4

for while do while

break continue

goto

2.

1 C

2 [printf()/scanf()]

3

4

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1 return

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7 C

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2 return

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10 #include #include

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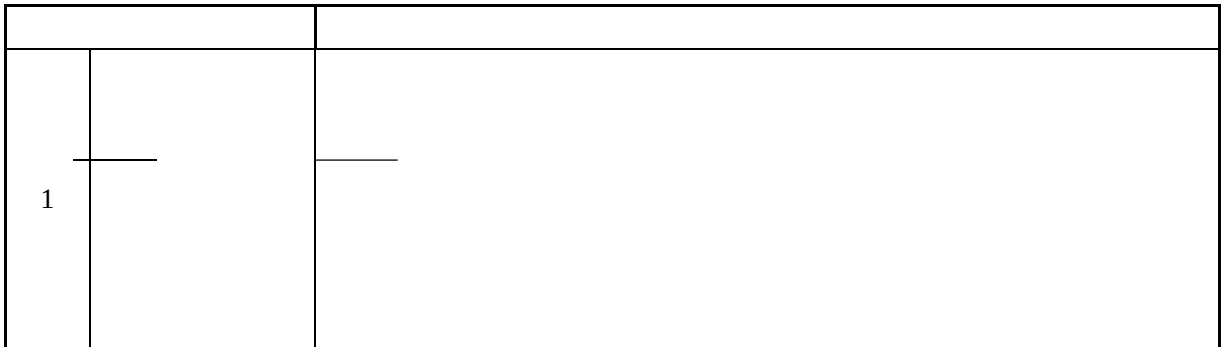
3	C	1	1.3	6	6
4		1 2	1.3 5.1	6	6
5		1 2	1.3 5.1	4	4
6		1 2	1.3 5.1	4	4
				24	24

1	C		2	1.3		
2			2	1.3		
3			6	1.3		
4			6	1.3 5.1		
5			4	1.3 5.1		
6			4	1.3 5.1		

1.

2. C

C



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= ×20% + ×20%+

×60%

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	70%			
		20 %	40% 40% 20%	1.3 5.1
		60 %	C	1.3 5.1

			60% 30% 10%	

1. C 2010 6

2020.11

0701004 B

fi fi

0701004

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32

2015

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2-1							
4-1							

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2201001

2201001

ffb ffi fifi fi fi fi

2201001

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2018.8

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11-1 12-1

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12-1	√	√	√

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		20%	30% 3~5 70%	11-1
		70%	40% 40% 20%	11-1 12-1

0.6

$$i = \frac{\times Ai + \times Bi}{100 \times (Ai+Bi)}$$

Ai= i

Bi= i

1 2018.08.
2. . . 2016.12.

2020.08

2201002

2201002

Career Advice

2201002

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16 16

2019.2

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7-1 9-2

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7-1		√	
9-2	√		√

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)
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1. ( )

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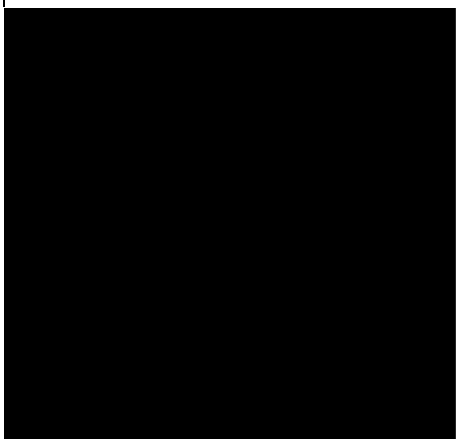
2		1 2 3 4
3		

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+ 40%+ 40%

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2019.2.

2020.11

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W fi

2019 8

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1		1 2
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= × 30 % + ×70 %

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2020.08

0000004

College Students' Mental Health Education

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8-1					

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4

1		1 2 3 5	3-1 6-2 6-3 8-1	2
2		1 2 3 5	3-1 6-2 6-3 8-1	2
3		1 2 3 5	3-	

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1		1 2 3
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= ×50%+ ×50%

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		30%		3-1 3-2
		5%	2	3-4 6-2
		15%		6-2 6-3 8-1 8-2
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1. 2018

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2007

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2005

2007

2004

2006

2005

2020.08

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16 1

0107012

0107012 **B**

Machine Drawing B

0107012

3.5

56

2017.7

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5.

1-3 20%

2-2 20%

	1	2	3	4	5	6	7	8
1-3	√	√	√					
2-2		√	√	√	√			

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1			2 5	1-3	6
2			1 3	1-3	4
					8
3			1 3 4	1-3 2-2	8
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4			2 4 5	1-3 2-2	6
					8
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					56

1

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2020.11

0107025

0107025

Engineering Mechanics

0107025

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64

2014.1

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4-1

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1-3				
2-1				
4-1				

1

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2.2.1

2.2.2

2.2.3

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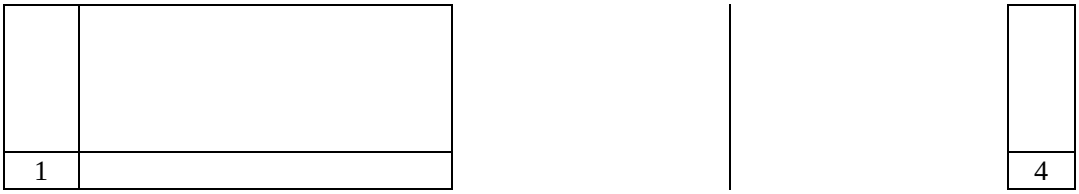
2.4

2.6

2.6.1

2.6.2



2		1	1-2	8
3		1 4	1-2 4-1	12
4		2 4	1-3 4-1	2
5		2 4	1-3 4-1	6
6		2	1-3	4
7		2 4	1-3 4-1	6
8		1 2	1-2 1-3	4
9		2 4	1-3 4-1	2
10		4	4-1	2
11		2	1-3	2
12		3	2-1	2
13		3	2-1	6
14		3 4	2-1 4-1	4
				64

1		1 2 3
2		1 2 3 4

3		1 2 3 1 2 3
4		
5		1 1/3 2 1/3 3 0.6

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		20%	5 10%	1-2 1-3 2-1
		10%	1-3 10%	1-2 1-3 2-1
		70%	70% 40% 20% 20% 40% 20% 20% 20% 10% 10%	1-2 1-3 2-1 4-1

$$i = \frac{? \ Ai \qquad ? \ Bi}{100 ? \left(Ai \quad Bi\right)}$$

Ai= × i Bi=

× i

[1] . 2014.10.

[2] . 2011.

2020.11

0102003

Engineering Materials

1.2 3.2 4.1

(1)	1-2	1	+
(3) /	3-2	2	+
(4)	4-1	3	+

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100		1-2 20 4-2 30	
		1-2 10 4-2 40	
100		1-2 6 3-1 9 1-2 10 3-1 5 3-1 15 4-2 20 1-2 15 3-1 10 4-2 10	
= ×30%+ ×10%+ ×60%			

20%	A B C D E

15%	A B C D E
20%	A B C D E
40%	

	B C D E

A 90-100 B 80-89 C 70-79 D 60-69 E <60

0101206

0101206

Interchangeability and Measurement Tehnology

0101206

2

32 28 4

2018.5

1.

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3.

4.

5.

1-2 1-3 4-1 4-3 6-1

	1	2	3	4	5
1-2					
1-3					
4-1					
4-3					
6-1	√				

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1		1	1-2 6-1	2	
2		2	1-2 1-3	4	2
3		5	1-2 4-3	2	
4		3	1-2 1-3	6	2
5		2	1-2 1-3	2	
6		5	1-2 1-3	2	
7		4	1-2 1-3	4	
8		4	1-2 1-3	4	
9		5	1-2 1-3	2	
				28	4

1			2	1-3		

2			2	1-3		

1		1 2 3
2		1 2 3 4

3		1 2 3 1 2 3
4		
5		1 1/3 2 1/3 3 0.6

= 30%+ 10%+ 60%

	/		/	
		20%	10-25 20%	1-2 1-3 4-3 6-1
		10%	1-3 10%	

		10%	2 2 10%	1-3 4-1 4-3
		60%	60% 40% 10% 50%.	1-2 1-3 4-1 4-3 6-1

$$= \frac{\times \quad + \quad \times \quad + \quad \times}{\times \left(\quad + \quad + \quad \right)}$$

Ai= × i

Bi= × i

Ci= × i

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3. . . .

2020.11

2201003

2201003

fi fi fi fifi

2017.7

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3-3			
4-3			

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2		1 2 3	3-2 3-3 4-3	6	
3		1 2 3	3-2 3-3 4-3	4	
4		1 2 3	3-3 4-3	4	
5		1 2 3	3-2 3-3 4-3	2	
6		1 2 3	3-2 3-3 4-3	2	
7		1 2 3	3-2 3-3 4-3	2	
8		1 2 3	3-3 4-3	4	
9		1 2 3	3-2 3-3 4-3	4	
10		1 2 3	3-2 3-3 4-3	2	
				32	

1		1 2 3
2		1 2 3 4
3		1 2 3 1 2 3
4		
5		1 1/3

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2020.11

0209601 A

Electrical Engineering and Electronics A

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1-2 40%

4-1 60%

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				√	√	√		

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3.

1 555

2 555

1		1	1-2	8	
2		2	1-2	16	
3		3	1-2	8	
4		4	1-2	10	
5		5	4-1	6	
6		6	4-1	8	
				56	

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2.

3.

1		1 2 3
2		1 2 3 4
3		1 2 3 1 2 3

4

		3 0.6

= × 30% + × 70%

80% 20%

	/		/	
		30%	20-30 80%	1-2 4-1
			20%	
		70%	70%	1-2 4-1

0.6

$$= \frac{\times + \times + \times}{\times (+ +)}$$

Ai= × i

Bi= × i

Ci= × i

I

2020.11

0107032

Fundamentals of Mechanical Design

0107032

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64 62 2

2018.3

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2		2	2-3 4-3	8	
3		3 5	1-3 3-1	8	
4		1 8	3-1 4-3	4	1

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		2 3 4
3		1 2 3 1 2 3
4		
5		1 1/3 2 1/3 3 0.6

= ×20%+ ×20%+ ×60%

	/		/	
		10%	20-30 10%	1-3

		10%	1-3 10%	1-3
		20%	3 3 20%	2-3 3-1

60%

30%

60%

2020.11

2201004

ffb fifffbfbiffb fi

2201004

3.0

48 40 8

C

C

2014.3

51

C51

8051

8051

8051

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6. C51

7.

3-3 25%

4-2 33% 5-1

25%

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4-2							
5-1							

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2	**MCS-51** MCS-51 CPU MCS-51 MCS-51 MCS-51 CPU MCS-51 MCS-51		/ MCS-51 MCS-51 RAM ROM MCS-51	4	/	1 2 4

	MCS-51 /					
3	**MCS-51** MCS-51 MCS-51		7	2	/	2 5 6
4	**C** C51 C51 C51 C51 C51 C51 C51 / C51 C51		C51 ANSI C C51 C51 C51 MCS-51 C51 C51 C51	6	/	3 5 6 7
5	**MCS-51**		51 MCS-51	2	/ /	3 6
6	**MCS-51 /** / / T0 T1 /		MCS-51 / / T0 T1 1 2 1 2	3	/ /	3 7
7	**MCS-51**		MCS-51	3	/	3 4 7

	PC		1 1			
8	LED		1 2 3 LED 4 LED	3	/ /	5 6
9			1 2 3 4	6	/	3 7
10	**STM32CubeMX** STM32CubeMX STM32CubeMX GPIO STM32CubeMX STM32CubeMX UART		STM32CubeMX STM32 GPIO STM32 STM32 UART HAL	9	/	3 4 5 6 7

1		Keil	2	3-3 4-2 5-1		

MCS-51

2

3		1 2 3 1 2 3
4		
5		1 1/3 2 1/3 3 0.6

= ×20%+ ×20%+ ×60%

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		10%	10-20 10%	8-1 12-1
		10%	1-3 10%	6-2 8-1
		20%	3 3 20%	3-1 4-1 5-1 12-1

		60%	60% 30% 30% C51 40%	2-3 3-1 4-1 5-1 6-3

0.6

$$= \frac{\times \quad + \quad \times \quad + \quad \times}{\times \left(\quad + \quad + \quad \right)}$$

Ai= × i

Bi= × i

Ci= × i

2010.08

2011.08

2020.11

2201005

fi ffi fi

2201005

4.5

72 64 8 0

3 2017

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4-2								
12-2								

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CNG LPG

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1 CNG

2 LPG

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3 ABS ARS

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2			2	4-2		
3			2	4-2		
4			2	4-2		

1		1 2 3
2		1 2 3 4

3		1 2 3 1 2 3
4		
5		1 1/3 2 3 3

= ×30% + ×10%+ ×60%

	/		/	
		15%	15%	3-1 12-2
		15%	5~6 20~30 15%	3-1
		10%	3 3 10%	4-2 12-2

		60%	60%	3-1 4-2 12-2

1	2008
2	2009
3	2011

2020.11

2201006

W fi ffi fi

2201006

3.0

48 40 8 0

2017

2018.06

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4.

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1-2 2-1 3-1

4-3 5-1 5-3

	1	2	3	4	5			
1-2								
2-1								
3-1								
4-3								
5-1								
5-3								

1	1 2 3 4 5		1 2 3	8	/	1 2 3
2	1		1 2	5	/ /	1 2

	2 3		3			3

1

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3 3 /

3

4

	5					
6	1 2 3 4		1 2 3	6	/ /	1 2 4
7	1		1	3	/ /	1 2

1.			2	3-1 4-3		
1			2	3-1 4-3		
2			2	3-1 4-3		
3			2	3-1 4-3		

1		1 2 3
2		1 2 3 4
3		1 2 3 1 2 3
4		
5		1 1/3 2 1/3 3 1/3 4 0.6

= ×35% + ×15%+ ×50%

	/		/	
		5%	5%	1-2
		20%	4~5 20~30 20%	2-1 3-1 4-3 5-1 5-3
		10%	2~3 1~2 10%	2-1 3-1
		20%		3-1 4-3 5-1 5-3
		30%	50%	1-2 2-1
		15%		1-2 2-1

0.6

$$i = \frac{\times Ai + \times Bi}{100 \times (Ai + Bi)}$$

Ai= × i

Bi= × i

1 [M]. 2009.

0101204

Foundation of Machine Manufacturing

0101204

3

48 42 6

A

2017.6

1.

2.

3.

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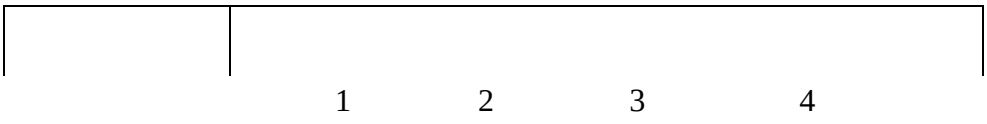
5.

1-4 4-3 10-2


1
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1		2		2
2		6		6
3		6		6
4		6	2	8
5		2		2
6		4	2	6
7		16	2	18
		42	6	48

1			2
2			2
3	CA6140		2
			6

1		1 2 3
2		1 2 3 4
3		1 2 1 2 3
4		
5		1 1/3 2 1/3 3 0.6

		4.3 6 10.2 3	
		4.3 6 10.2 3	
= ×30%+ ×10%+ ×60%			

	A 90-100	B 80-89	C 70-79	D 60-69	E <60
30%					
70%	90%	80%	70%	60%	60%

90 -100	1 2 3
80 -89	1 2 3
70 -79	1 2 3
60 -69	1 2 3
< 60	1

	2 3

0.6

$$= \frac{\times \quad + \quad \times \quad + \quad \times}{\times \left(\quad + \quad + \quad \right)}$$

Ai= × i

Bi= × i

Ci= × i

1 2013.

2 . ,2012.

3. 2010

4. 1990

5. 1985

6. 1985

7. 2010

2020.11

2201008

fi fi ffb fi fi

2201008

2.5

40 34 6

2017

1.

2.

3.

4.

1-1 1-2 2-1

2-2 3-1 3-3 4-1 5-1 6-1

6-2

	1	2	3	4				

1	1 2 3 4		1 2 3	2	/ /	1 3
2	1 2 3		1 2 3 4	6	/ /	1 3

3

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4	1 . 2		1 2 3	6	/	1 3
5	1. 1 2 3 4		1 2 3	6	/ /	3
6	1 2 3 4		1 2 3 4	4	/	3
7	1 2 3		1 2 3	4	/ /	2 4
8	1 1 2		1 2	2	/	2 4

1			2	2-1 3-1 4-2		

Ai= × i

Bi= × i

Ci= × i

1 . . .2018.

2 . .

2201009

fi fi ffb fi fi fi

2201009

2016.1

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1-2 2-3 3-3 6-2 8-3 9-1 10-2 11-2

12-2

	1	2	3	4	5
1-2					
2-3					
3-3					
6-2					
8-3					
9-1					
10-2					
11-2					
12-2					

5				3		2
6				3		2
7				4		2 3

8

10

3		1 2 3 1 2 3
4		
5		1 1/3 2 1/3 3 0.6

= ×30 % + × 70 %

	/		/	
		30 %	10% 3~4 10~20 20%	1-2 2-3 12-2
		70 %	70%	6-2 11-2

0.6

$$i = \frac{\times Ai + \times Bi}{100 \times (Ai+Bi)}$$

Ai= × i

Bi= × i

1. 2010.6

2. 2010.1

2020.11

2201010

Automotive Electronic Control Technology

2201010

3.0

48 40 8 0

2016.12

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3-1 4-1 6-1

	1	2	3	4	5			
3-1								
4-1								
6-1								

1	1 2 3		1 2 3	2	/ 	1
2	1 2 3 (ECU) 4		1 2 3 4	8	/ /	2 5
3	1 2 3 4 5		1 2 3 4	6	/ /	2 5
4	1 (ISC) 2		1	3	/	2 5

	3 4 5 6		2 3			
5	**ABS** 1 ABS 2 ABS		1 ABS 2 ABS	6	/ /	3 5
6	**ASR** 1 ASR 2 ASR 3		1 ASR 2 ASR 3	2	/	3 5
7	1 2 3 4 5 6 7 8 9 CVT 10 DSG		1 2 3 4 5 6 7 8 9 10 11 12 13 DSG	10	/ /	3 5
8	**SRS** A/D D/A		1 M E 2 3	2	/	4 5
9	**CCS**		1	2	/	4

	1 2 3		ECU 2			5
10	1 2		1 2	4	/	3 5
11	1 2		1 2	3	/	3 4 5

1						

4			2	3-1 4-1		

1		1 2 3
2		1 2

		3 4
3		1 2 3 1 2 3
4		
5		1 1/3 2 1/3 3 0.6

= ×20% + ×20%+ ×60%

	/		/	
		10%	10%	6-1
		10%	4~5 20~30 10%	3-1 4-1
		20%	2 10 20 70	3-1 4-1

60%

2201011

fi fi ffl Vfi Vfi

2201011

3.0

48 42 6

2017.6

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4-2				
6-1				

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EMC

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2		1 2 4	3-1 6-1 11-2	9	2
3		2 3	3-1 6-1	3	
4		1 2 3	3-1 4-2 6-1	6	
5		2 3	3-1 6-1	3	
6		2 3	3-1 6-1	3	
7		2 3	3-1 6-1	6	
8		2 4	3-1 4-2 11-2	9	4
				42	6

1			2	6-1		
2			2	3-1 4-2		
3			2	3-1 4-2		

5		1 1/3 2 1/3

= ×20% + ×20%+ ×60%

	/		/	
		10%	10%	6-1
		10%	4~5 20~25 10%	6-1
		20%	3 3 20%	3-1 4-2 6-1
		60%	70%	3-1 6-1 11-2

0.6

$$= \frac{\times \quad + \quad \times}{\times(\quad + \quad)}$$

Ai= × i

Bi = × i

1 . . .2017.06.

2 . . .2013.08.

2020.11

2201012

2201012

Automotive Fault Diagnosis Technology

2017

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1-2 2-1 3-1

4-2 5-1 6-1

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	√	√	√					
		√	√					
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	√			√				

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2		1 3	1-2 3-1 3-3	8	2
3		1 3	1-2 3-2 3-3	10	2
4		1 3	1-2 4-2 5-1	8	2
5		3 4	3-1 3-2 6-4	6	2
6		3 4	3-1 3-2 6-4	4	
				40	8

1			2	2-1		

				3-1 4-2		
2			2	2-1 3-1 4-2		
3			2	2-1 3-1 4-2		
4			2	2-1 3-1 4-2		

1		1 2 3
2		1 2 3 4
3		1 2

		3 1 2 3
4		
5		1 1/3 2 1/3 3 0.6

= ×20% + ×20%+ ×60%

	/		/	
		10%	10%	5-1
		10%	3~4 20~30 10%	2-2
		20%	4 4 20%	4-1 4-2
		60%	60%	3-1 4-1 5-1

0.6

$$= \frac{\times \quad + \quad \times \quad + \quad \times}{\times \left(\quad + \quad + \quad \right)}$$

Ai= × i

Bi= × i

Ci= × i

1 . . .2017.

2 . . .2015.

3 5 . . .2018.06.

2020.11

Marketing

	1	2	3	4	5			
	√	√	√					
	√	√	√	√	√			
		√	√	√	√			
		√	√	√	√			
		√	√	√ √ √	√ √ √			

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2		1 2 4 5	1 2 3 5 6	6	
3		1 4 5	1 2 3 5	6	
4		1 2 4 5	1 2 3 4 6	3	
5		4 5	2 3 5 9 10	3	
6		1 3 4 5	1 2 4 5 6 12	6	
7		1 3 4 5	1 2 4 5 6 12	6	
8		1 3 4 5	1 2 4 5 6 12	6	
9		1 3 4 5	1 2 4 5 6 12	6	
10		1 4 5	1 2 4 5 6 9 10 11 12	3	
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2

3 PPT

1		

2		1 2 3 4 5 6 7
3		1 2 3 1 2 3
4		
5		1 1/3

		2 1/3 3 0.6
6		

= × 30 % + ×70 %

	/		/	

10 70%

30%

15-20

30%

1 : 16 2015

2 2013

3 2014

2020.11

2201013

Appraisal of Motor Vehicle

2018 02

1.
    1
    2
2.
    1
    2
3.

1.
    1
    2
2.
    1
    2

1.
    1
    2
    3
2.
    1
    2

1.
    1
    2
2.
    1
    2

1.
    1
    2
2.
    1
    2
    3

1.
    1
    2
2.
    1

    2
    3
    4

1.

		3 4
3		1 2 3
		1 2

Ai= × i

Bi= × i

2013.1

1

2020.11

0801008

Linear Algebra

0801008			
2			
32	32	0	0

2014.6

1.
2.
3.

1.

    1

    2

    3

    4

2.

    1 *n*

    2

3.

1.

    1

    2

    3

    4

    5

2.

    1

    2

3.

1.
    1
    2
    3
    4
2.
    1
    2

3.

1.
    1
    2
    3
    4
2.
    1
    2

3.

1.
    1
    2

3

4

5

6

7

2.

1

2

3.

1		1-3	1-1	8	
2		1-5	1-1	6	
3		1-5	1-1	6	
4		1-5	1-1	4	
5		1-3	1-1	8	
				32	

1		1 2

		3 4
2		1 2 3
3		1 2 3 1 2 3
4		
5		1 1/3 2 1/3

= ×10% + ×10% + ×30%+ ×50%

	/		/	

		10%		1-1
		10%		1-1
		30%		1-1
		50 %		1-

0801007

0801007

Theory of Probability

0801007

2

32 32 0 0

2017.8

1.

2.

3.

4.

5.

1-1

	1	2	3	4	5			
1-1	√	√	√	√	√			

1.

1

2

3

4

5

6

7

2.

1

2

3.

1.

1

2

3

4

5

2.

1

2

3.

1.

1

2

3

4

5

2.

1

2

3.

1.

1

2

3

2.

1

2

3.

1		1-3	1-1	8	
2		1-5	1-1	10	
3		1-5	1-1	6	
4		1-3	1-1	8	
				32	

1		1 2 3 4
2		1 2 3
3		1 2 3

1

1.

2.

3

1.
2.
3.

2020.09

2202202

2202202

Motion Control for Intelligent ehicles

2018.8

1.

2.

3.

4.

2-2 3-1 3-2

3-3 4-2 4-3 5-1 9-2 9-3

10-1 10-2 12-1 12-2

	1	2	3	4
2-2				
3-1				
3-2				
3-3				
4-2				
4-3				
5-1				
9-2				
9-3				
10-2				
12-1				
12-2				

1.

2.

1.

2.

1.

2.

1.

2.

1.

2.

1.

2.

1.

2.

1.

2.

1.

2.

W

1.

2.

1		1	3-1	0	
2		1 2	3-1 6-1 11-2	0	
3		2 3	3-1 6-1	0	
4		2 3	3-1 4-2 6-1	0	
5		2 3 4	3-1 6-1	0	
6		1 3 4	3-1 6-1	0	
7		2 3	3-1 6-1	0	
8	*	2 4	3-1 4-2 11-2	0	
9	(5G) *	2 3		0	
10	ITS *	2 4		0	
				32	

1.

1		1 2
2		
3		1 2
4		
5		7

7~10

1 .

. .2018.01.

2 . . .2013.08.

3 Foundations of Analog and Digital Electronic Circuits . Anant Agarwal. Jeffrey H . Lang © 2005 by Elsevier Inc.

2020.11

1	AUTOMOBILE BASICS			2		2 3 4
2	AUTOMOTIVE LUBRICATION SYSTEM; THE COOLING SYSTEM; FUEL INJECTION SYSTEM; THE IGNITION SYSTEM			10		1 2 3
3	CLUTCH; AUTOMATIC TRANSMISSIONS; THE DIFFERENTIAL; BRAKING SYSTEM; STEERING SYSTEM; FRAME AND SUSPENSION SYSTEM			12		1 2 3
4	VEHICLE BODY			2		1 2 3
5	ELECTRICAL SYSTEM ELECTRONIC CONTROL SYSTEM		SRS	4		1 2 3

6	HYBRID DRIVE			2		1 4 5

1		1 2 3
2		1 2 3 4
3		1 2 1

4		
5		1 1/3 2 1/3 3 0.6

= ×30% + ×70%

	/		/	
		10%	10%	10-3
		20%	3~4 20%	10-3
		70%	70%	10-3

0.6

Ai= × i

Bi= × i

1 . . 2012.1 1
978-7-118-07789
2 . . 2017.8
9787114137396

2020.11

2201015

fi fi fi fi ffi fi fi fi

2016 01

1.

2.

3.

4.

	1	2	3	4
2-2				√
3-2		√		√
7-2	√			√
9-2		√		
11-1	√			
12-2			√	√

1				2		1
2				3		1 2
3	ISO		ISO	3		1 2
4				3		2
5			CRM CRM	4		2 4

	CRM CRM CRM		CRM			
6				3		2
7				3		1
8				4		2 3
9				4		3 4
10				3		3

		1 1/3 2 1/3 3 0.6

= ×30% + ×70%

	/		/	
		30 %	10% 3~4 10~20 20%	2-2 7-2 9-2 12-2
		70 %	70%	3-2 11-1

0.6

$$i = \frac{\times Ai + \times Bi}{100 \times (Ai+Bi)}$$

Ai= × i

Bi= × i

1. 2010
2. 2005
3. 2004

2020.11

2201017

2201017

fi fi fi fifi

2017

1.

2.

3.

4.

1-2 2-1 3-1

4-2 5-1 6-1

	1	2	3	4				
				√				

	√	√	√					
		√	√					
			√					
	√			√				

1.

1

2

3

4

2.

1

2

3

3.

1.

1

2 .

3

2.

1

2 .

3

1.

1

2

2.

1

2

1.

1

2

3

4

2.

1

2

3

1.

2.

1.

1

2

3

4

3		1 2 3 1 2 3
4		
5		1 1/3 2 1/3 3 0.6

= ×30% + ×70%

	/		/	
		10%	10%	5-1
		20%	3~4 20~30 20%	2-2
		70%	70%	3-1 4-1 5-1

0.6

$$= \frac{\times + \times + \times}{325 \times (+ +)}$$

Ai= × i

Bi= × i

Ci= × i

1 . . .2018.

2 . . .2018.

2020.11

2201016

32 2

2201016

2019.09

1.
2.
3.
4.

3-1 4-2 7-2

	1	2	3	4
3-1				
4-2				
7-2				

1				3		1
2				12		2 3 4
3				12		2 3
4				6		2 3 4

3

5

4

3

3

3

3

1		1 2 3
2		1 2 3 4
3		1 2 3 1

		3
4		
5		1 1/3 2 1/3

= ×30% + ×70%

	/		/	
		15%	15%	3-1 4-2
		15%	3~4 15~25 15%	4-2 7-2
		70%	70%	3-1 4-2 7-2

0.6

$$= \frac{\times \quad + \quad \times}{\times(\quad + \quad)}$$

Ai= × i

Bi = × i

1	2	.	.	.2019.11.
2	4	.	.	.2019.02.

2020.11

2201018

2201018

fi fi fi Wfi

2201018

2.0

32 32 0 0

3 2020.8

1.

2. /

3.

4.

5-2 6-2 7-2

	1	2	3	4				
5-2								
6-2								
7-2								

1	1 2 3 4		1 2 3	4	/ 	1
2	1 2 3 4		1 2	4	/ 	3
3	1 2 3 4		1 2	6	/ 	1 2

4	1 2 3 4		1 2 3	4	/	2
5	1 2 3		1 2	2	/	2
6	1 2 3 4 5 6		1 2 3	6	/	2 4
7	1 2 3		1 2 3	6	/	3

1		1 2 3
2		1 2 3 4
3		1 2 3 1 2 3
4		
5		1 1/3 2 1/3 3 0.6

= ×40% + ×60%

	/		/	

3 . . .2019.11.

2020.11

0000001

Military Training

2201019

Cognition Practice

2201019

1

1

1.

2.

3.

4.

5-3 7-1 8-3

10-1

	1	2	3	4				
5-3	√		√					

7-1		√						
8-3			√					
10-1	√			√				

1.

1

2

3

2.

1

2

3

4

5

3.

1		2 3	7-1 8-3	0.5
2		1 2	5-3 7-1	0.5
3		1 2 3 4	5-3 7-1 8-3 10-1	4
				5

		30%	30%	5-3 7-1
		40%	60%	5-3 7-1 10-1

2020.11

0108002

0108002

Metalworking Practice

0108002

2

2

/

1.

2.

3.

4.

5.

6-1 30%

8-2 30% 9-1 30%

9-2 10%

	√	√	√	√	√
	√	√	√	√	
	√	√	√	√	
	√				

1

2

2-3

2

2

2

1

2

1

2

1		4	6-1 8-2 9-1		0.5 2
2		3	6-1 8-2 9-1		0.5 2
3		2	6-1 8-2 9-1		0.3 0.7
4		1	6-1 8-2 9-1 9-2		0.5 1.5
5		4	6-1 8-2 9-1		0.3 0.7
6		4	6-1 8-2 9-1		0.2 0.3
7		5	6-1		0.2 0.3
		10			

	1.	
	2.	
	3.	
	4.	
	1.	
	2.	
	3.	
	4.	
	1.	
	2.	
	3.	

1

10%

2 80%

3 10%

		10%	2 5	8-2 9-1
		80%		6-1 8-2 9-1 9-2
		10%		6-1

1

25% 30% 10% 10% 15% 5% 5%

2

2020.11

0210701 A

Electrical Engineering Practice A

1

1

( ). .

2015

A

1

1. A

2.
3.
4.

1.
2.
3.
4.
5.

5 3

1		1 2	2-2 5-1	1	
2		1 2	2-2 5-1	1	
3		1 2	2-2 5-1	1	
4		1 2	2-2 5-1	1	
5		1 2	2-2 5-1	1	
				5	

1.

2.

3.

	1.	
	2.	
	3.	
	4.	
	1.	
	2.	
	3.	
	4.	
	1.	
	2.	
	3.	

1. 3

2. 1

= ×20% + × %

Bi= × i

Ci= × i

A

1. . . .2017
2. . . .2014
3. . / . . 2012

2020.11

2201020

2201020

Automotive Disassembly and Commissioning Practice

2201020

3

3

4S / /

1.

2.

3.

4.

5.

4-2 4-3 6-1

8-3 9-2 10-1

	1	2	3	4	5			
4-2	√		√					
4-3	√		√	√				
6-1			√		√			
8-3		√						
9-2		√						
10-1					√			

1.

2

3

4

2.

1

2

3

4

5

1		1 3	4-2
2		2 3	6-1 8-3 9-2
3		4 5	4-3 5-3 8-3 10-1

1		1 2 3 4
2		1 2 3 3 5

= 30%+ 60%+ 10%

	/		/	
		30%	30%	10-1
		60%	60%	4-2 4-3 5-3

				6-1 10-1
		10%	10%	7-1

2020.11

0503003

0503003

Marketing Practice

0503003

1

1

1.

2.

3. STP

4.

5.

1.

1

2

3 SWOT

4

2.

1

2 SWOT

STP

1.

1

2

3

2.

1

2

1.

1

2

3

4

2.

1

2

3

4

1.

1 1-2

2

3

2.

1

2

1		1 2 3 4 5		1	0
2		1 2 5	6-2 7-1	0	1
3	STP	2 3	3-2 3-2	0	1
4		2 4	3-2 3-2	0	1
5		2 4 5	8-1 8-2 8-3	0	1
				1	4

1		1 2
2		1 2
3		
4		
5		
6		

= × 10 % + × 30 %+ ×60%

	/		/

		10 %	
		30%	
		60%	

2020.11

2201021

fi fi fi fi

2201021

3

3

4S

1.

2.

3.

4.

5.

4-2 4-3 6-1

8-3 9

1		1 3	4-2
2		2 3	6-1 8-3 9-2
3		4 5	4-3 5-3 8-3 10-1

1		1 2 3 4
2		1 2 3 3 5

= 30%+ 60%+ 10%

	/		/	
		30%	30%	10-1
		60%	60%	4-2 4-3 5-3 6-1

				10-1
		10%	10%	7-1

2201022

fi ffb fi

2201022

1

2

/ / 4S

1.

2.

3.

4.

5.

4-3 5-3 7-1

8-3 10-1

	1	2	3	4	5			
4-3								
5-3								

7-1

3			1 3 4 5	4-3 5-3 8-3 10-1

1		1 2 3 4
2		1 2 3 1

= 25%+ 45%+ 10%+

10%+ 10%

	/		/	
		25%	25%	10-1
		45%	45%	4-3 5-3 10-1
		10%	10%	7-1
		10%	3 10%	8-3
		10%	10%	8-3

2020.11

2201023

Summer Production Practice (II)

2201023

1

1

"-E– = Ñ 0;

/

3-2 4-3 5-3

7-1 8-3 10-1

	1	2	3	4	5			
3-2								
4-3								
5-3								
7-1								
8-3								
10-1								

1.

1

2

3

2.

1

2

3

4 /

5 /

6

1			2 3	8-3

2			3 4	4-3 5-3 8-3
3			1 3 4 5	4-3 5-3 8-3 10-1

1		1 2 3 4
2		1 2 3 1

= 25%+ 45%+ 10%+ 10%+ 10%

/ /

0107033

2 2

1		
2	V	
3	( )	
4		
5		
6		

		0.5
		1.5
		2.5
		3
		1
		1
		0.5

3

1

2 . . 2004

3

2020.11

2201024

Graduation Practice

2201024

2

2

1.

2.

3.

4.

4-3 6-3 8-3

10-1

	1	2	3	4
4-3	√			
6-3		√		

8-3			√	√
10-1	√			√

1		1 2
2		1 2 3 4
3		 1 2 3 1

= ×30% + ×30%+ ×40%

	/		/	
		30%	30%	6-3 8-3
		30%	30%	4-3 6-3 10-1
		40%	60%	4-3 6-3 10-1

2020.11

2201025 ( )

	1	2	3	4	5
8-3					
9-2					
9-3					
10-1					
10-2					
11-1					
11-2					
12-2					

2.

SpringerLink EBSCO

1.

2.

1.

2.

1

/

	1.	
	2.	
	3.	
	4.	
	1.	
	2.	
	3.	
	4.	
	1.	
	2.	
	3.	

1.

(1)

(2)

30% 20% 50%

2.

( ) 90

( ) 89-80

( ) 79-70

( ) 69-60

				11-2 12-2
		50%		8-3 9-2 9-3 10-1 10-2 11-1 11-2 12-2

0.6

Ai= × i

Bi= × i

Ci= × i