

2009

A

1 200

2

3 A

2B A

A

4

[A] B [C] [D]

5

6

- 3 45
- 1 80%
- 75 20%
- A 88 B 86
- C 84 D 82
- E 80
- 2 4 100
- 4.25
- A 3 B 6
- C 4 D 7
- E 8
- 3 200 20%
- 15% 2
- 5400 5%
- A 450 900 B 500 1000
- C 550 1100 D 600 1200
- E 650 1300
- 4 48
- 10 40
- /
- A 470 430 B 380 340
- C 370 330 D 280 240
- E 270 230
- 5 8 : 00
- 8 : 50 9 : 20
- A 8 : 35 B 8 : 30
- C 8 : 25 D 8 : 20
- E 8 : 15

- 6 x, y $(1+2\sqrt{3})x+(1-\sqrt{3})y-2+5\sqrt{3}=0$ x, y
- A 1, 3 B -1, 2
- C -1, 3 D 1, 2
- E
- 7 a^b 2007 1 a b 2009 1
- $a^{2007}+b^{2009} =$
- A -1 B 2
- C 1 D 0
- E 2^{2007}
- 8 $y=|x-a|+|x-20|+|x-a-20|$ $0 < a < 20$ $a \leq x \leq 20$ x y
- A 10 B 15
- C 20 D 25
- E 30
- 9 x $mx^2-(m-1)x+m-5=0$ α β $-1 < \alpha < 0$
- $0 < \beta < 1$ m
- A $3 < m < 4$ B $4 < m < 5$
- C $5 < m < 6$ D $m > 6$ $m < 5$
- E $m > 5$ $m < 4$
- 10 100 10
- 1
- A 300 B 250
- C 200 D 150
- E 100
- 11 $x^2-2x+y^2=0$ $3x+4y-12=0$
- A $\frac{3}{5}$ B $\frac{4}{5}$
- C 1 D $\frac{4}{3}$
- E $\sqrt{2}$

12 $|xy| + 1 = |x| + |y|$

A $\frac{1}{4}$

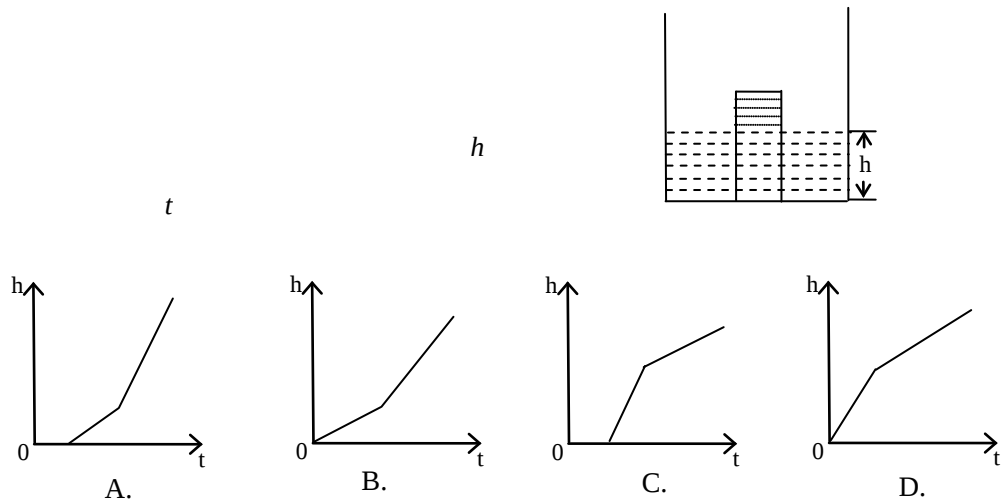
B $\frac{1}{2}$

C 1

D 2

E 4

13



E

14 10

1 2 3 4

A 72

B 84

C 96

D 108

E 120

15

a b

P

$P(a, b)$

$x + y = 6$

A $\frac{1}{6}$

B $\frac{7}{36}$

C $\frac{2}{9}$

D $\frac{1}{4}$

E $\frac{5}{18}$

3 30

1 2

A 1 2

B 2 1

C 1 2 1 2

D 1 2

E 1 2 1 2

16 $a+b+c+d+e$ 133

1 a, b, c, d, e 1 $abcde = 2700$

2 a, b, c, d, e 1 $abcde = 2000$

17 $x^2 + x - 6$ $2x^4 + x^3 - ax^2 + bx + a + b - 1$

1 $a = 16$

2 $b = 2$

18 $2^{x+y} + 2^{a+b} = 17$

1 a, b, x, y $y + |\sqrt{x} - \sqrt{3}| = 1 - a^2 + \sqrt{3}b$

2 a, b, x, y $|x - 3| + \sqrt{3}b = y - 1 - b^2$

19 $\frac{1}{a} + \frac{1}{b} + \frac{1}{c} > \sqrt{a} + \sqrt{b} + \sqrt{c}$

1 $abc = 1$

2 a, b, c

20 x $\frac{1}{x-2} + 3 = \frac{1-x}{2-x}$ $\frac{x+1}{x-|a|} = 2 - \frac{3}{|a|-x}$

1 $a = 2$

2 $a = -2$

21 $x \quad a^2x^2 - (3a^2 - 8a)x + 2a^2 - 13a + 15 = 0$

1 $a = 3$

2 $a = 5$

22 $\{a_n\} \quad 18 \quad S_{18} = \frac{19}{2}$

1 $a_3 = \frac{1}{6} \quad a_6 = \frac{1}{3}$

2 $a_3 = \frac{1}{4} \quad a_6 = \frac{1}{2}$

23 $\triangle ABC$

1 $\triangle ABC \quad a^2 + b^2 + c^2 = ab + bc + ac$

2 $\triangle ABC \quad a^3 - a^2b + ab^2 + ac^2 - b^3 - bc^2 = 0$

24 $(x-3)^2 + (y-4)^2 = 25 \quad (x-1)^2 + (y-2)^2 = r^2 \quad (r > 0)$

1 $r = 5 \pm 2\sqrt{3}$

2 $r = 5 \pm 2\sqrt{2}$

25 99

1 0.6

2 4

2 $60 \quad 5$

26

96

A

B

C

D

E

27

A

B

C

D

E

28

1

2

3

A

B

C

D

E

29

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31

A

B

C

D

E

32

A

B

C

D

E

33

A

B

C

D

E

34

A	B
C	D
E	

35

A
B
C
D

E

36

19 80

100

A
B
C
D
E

19 80

37

2004

10% 70%

A			
B	2004	1994	70%
C	2004		60%
D	2004	1994	30%
E	2004	1994	20%

38

A
B
C
D
E

39

90%

A
B
C
D
E

10%

40

A
C
E

B
D

41

20%

20%

A
B
C
D
E

42 H 95%

- A
- B
- C H
- D
- E

43 2005

1000

850

- A
- B
- C
- D

800

700 900

45

A

B

C

D

E

46

A

B

C

D

E

47

49

2%

A

B

C

D

E

50

“

”

80%

A

B

C

D

E

51

A

B

C

D

E

52

- A
- B
- C
- D
- E

53

- A
- C
- E

- B
- D

54

- A
- B
- C
- D
- E

55

65

56

600

30

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“ ”

“ ”

57

700

35

综合能力试题参考答案(A卷)

一、问题求解

- 1.C 2.E 3.D 4.E 5.D 6.C 7.C 8.C 9.B
10.A 11.B 12.E 13.C 14.B 15.E

二、充分性判断题

- 16.B 17.E 18.C 19.C 20.D 21.D 22.A 23.A 24.B
25.E

三、逻辑推理

- 26.C 27.C 28.C 29.C 30.A 31.B 32.E 33.D 34.B
35.E 36.E 37.C 38.E 39.D 40.C 41.C 42.C
43.A 44.A 45.C 46.C 47.C 48.B 49.A 50.A 51.C
52.A 53.A 54.E 55.A