

YTÜYÖS-2019-2

YILDIZ TEKNİK ÜNİVERSİTESİ YURT DIŞI ÖĞRENCİ GİRİŞ SINAVI MATEMATİK VE GENEL YETENEK TESTİ

THE ENTRANCE EXAMINATION FOR FOREIGN STUDENTS
THE MATHEMATICS & IQ TEST
09 Haziran 2019- ENDONAZYA
(09 Jan 2019)

ADAYIN / APPLICANT'S

ADI / NAME:

SOYADI / SURNAME:

ADAY NUMARASI / CANDIDATE NUMBER:

SINAV SALON NO / EXAMINATION HALL NO:

Adınızı, soyadınızı, aday numaranızı ve sınav salon numaranızı yukarıda boş bırakılan yere yazınız.

Write your name, surname, candidate number, and examination hall no in the appropriate places above.

GENEL AÇIKLAMALAR (GENERAL INSTRUCTIONS)

- I. Dalam test ini terdapat 80 pertanyaan.
 II. Waktu untuk ujian adalah 130 menit.
 III. Tolong gunakan lembar yang sesuai hanya di lembar jawaban.
 IV. Pertanyaan-pertanyaan tidak perlu dijawab dalam urutan khusus apa pun, tetapi pastikan bahwa nomor pada lembar jawaban benar-benar sesuai dengan jumlah pertanyaan yang sedang Anda kerjakan dalam kertas ujian.
 V. Dalam tes ini hanya ada satu jawaban yang benar untuk setiap pertanyaan. Jika lebih dari satu alternatif ditandai, jawaban itu akan secara otomatis dianggap salah.
 VI. Anda harus menggunakan pensil hitam untuk menandai lembar jawaban. Pastikan tanda Anda tidak melampaui batas lingkaran. Jangan gunakan pena jenis apa pun.
 VII. Biarkan lembar jawaban tetap datar dan jangan melipatnya. Jangan membuat tanda yang tidak perlu di atasnya. Jika Anda ingin mengubah jawaban, hapus dengan hati-hati sepenuhnya dengan penghapus yang sangat lembut. Jangan lupa untuk menandai jawaban baru Anda.
 VIII. Dalam penilaian tes, untuk setiap empat jawaban yang salah, satu jawaban yang benar akan dikurangkan, sisanya adalah skor mentah.
 IX. Peraturan lain tentang administrasi tes akan ditemukan di bagian belakang kertas ujian.
- I. This test is comprised of 80 questions.
 II. The time allowed for this test is 130 minutes.
 III. Please use the appropriate part of the only Answer Sheet.
 IV. The questions need not be answered in any special order, but make sure that the number on the answer sheet does indeed correspond to the number of the question you are working on in the test booklet.
 V. In these tests there is only one correct answer for each question. If more than one alternative is marked, that answer will automatically be considered wrong.
 VI. You should use a soft, black pencil to mark the answer sheet. Make sure your mark does not go beyond the borders of the circle. Do not use any kind of pen.
 VII. Keep the answer sheet flat and do not fold it. Do not make any unnecessary marks on it. If you wish to change an answer, carefully erase it completely with a very soft eraser. Do not forget to mark your new answer.
 VIII. In the scoring of the tests, for every four incorrect answers, one correct answer will be deducted, the remainder will be the raw score.
 The other regulations concerning the administration of the tests will be found at the back of the booklet.

Bu testlerin her hakkı saklıdır. Hangi amaçla olursa olsun, testlerin tamamının veya bir kısmının YTÜ Yurt Dışı Öğrenci Ofisinin yazılı izni olmadan kopya edilmesi, fotoğrafının çekilmesi, herhangi bir yolla çoğaltıması, yayımlanması ya da kullanılması yasaktır. Bu yasağa uymayanlar gerekli cezai sorumluluğu ve testlerin hazırlanmasındaki mali külfteni peşinen kabullenmiş sayılır.

ÖNEMİ NOT
(IMPORTANT NOTE)

Türkçe Açıklama	English Attention
I. Ondalık sayıları göstermek için Türkçe metinlerde virgül (,) kullanılır.	I. Decimals are indicated by a comma (,) in Turkish.
II. a ve b gibi iki sayının çarpımı için iki basamaklı sayı ile karışıklığı önlemek için ab yerine $a \cdot b$ notasyonu kullanılmıştır.	II. In order to avoid confusion with two-digit number, the $a \cdot b$ instead of the notation ab has been used in multiplication of numbers a and b
III. $\max(x)$ ve $\min(x)$ sembolleri, x 'in maksimum ve minimum değerini temsil eder.	III. Symbols of $\max(x)$ and $\min(x)$ stand for maximum and minimum value of x .

1. $\frac{24}{2 + \frac{12}{1 + \frac{10}{1 + \frac{16}{x-1}}}} = 4 \Rightarrow x = ?$

- a) 9 b) 3 c) 2 d) 17 e) 5

2.

$$\frac{1}{13} + \frac{1}{14} + \frac{1}{15} + \frac{1}{16} = x \Rightarrow \frac{27}{13} + \frac{29}{14} + \frac{31}{15} + \frac{49}{16} = ?$$

- a) $9 - x$ b) $8 + x$ c) $9 + 2x$
 d) $9 + x$ e) $8 - x$

3. $16^{0,5} \cdot 9^{1,5} = ?$

- a) 108 b) 36 c) 6 d) 216 e) 12

4. $0,03 + 0,003 + 0,0003 + \dots = ?$

- a) $\frac{1}{30}$ b) $\frac{1}{3}$ c) $\frac{3}{10}$ d) $\frac{1}{10}$ e) $\frac{1}{90}$

5. $a = 7321, \quad b = 1742$

Berapa sisa nilai $a^3 + b^2 + a \cdot b + 3$ dibagi 11?

What is the remainder of the number $a^3 + b^2 + a \cdot b + 3$ dividing by 11?

- a) 4 b) 7 c) 6 d) 8 e) 10

6. Berapa banyak nilai $a+b$ yang memenuhi, sehingga nilai $2a5bc$ dibagi 60, tak bersisa?

How many values of $a+b$ are there for which the number $2a5bc$ divides 60 without remainder?

- a) 6 b) 8 c) 9 d) 10 e) 11

7. $x \neq 0$

$$x - \frac{2}{x} = 3 \Rightarrow x^3 - 2x^2 - 5x + 8 = ?$$

- a) 6 b) 10 c) 8 d) 7 e) 9

8. Berapa digit unit dari angka di bawah ini?

What is the units digit of the below number?

$$0! + 1! + 2! + 3! + \cdots + 78!$$

- a) 4 b) 3 c) 8 d) 7 e) 9

9. $\frac{3x-1}{2} = \frac{y+3}{4} = \frac{z+1}{3}$, $6x - y + 2z = 15$
 $\Rightarrow y + z = ?$

- a) 10 b) 17 c) 3 d) -15 e) -17

10. $\sqrt{2010 \cdot 2015 - 2006 \cdot 2019} = ?$

- a) 36 b) 25 c) 6 d) 9 e) 15

11. Jika x dan y adalah nilai minimum dari $x^2 + y^2 - 6x - 2y$, maka $x + y = ?$

If x and y make the expression $x^2 + y^2 - 6x - 2y$ minimum, then $x + y = ?$

- a) 0 b) 1 c) 2 d) 3 e) 4

12. Berapakah jumlah nilai x yang memenuhi persamaan di bawah ini?

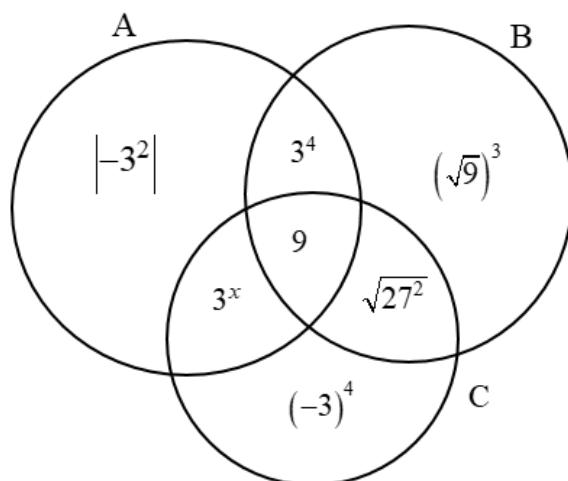
What is the sum the values of x that satisfy the below equation?

$$|x+1| + |2x+2| + |4x+4| = 21$$

- a) 0 b) -2 c) 2 d) -4 e) 1

13. Ekspresi yang diberikan dalam diagram Venn di bawah ini mewakili jumlah elemen dari set terkait

The expressions given in the below Venn diagram represents the number of elements of related sets.



$$s(A-B) + 5 s(A \cap B \cap C) = s((B \cup C) - A) \\ \Rightarrow x = ?$$

- a) 3 b) 4 c) 5 d) 6 e) 2

14. Berapa banyak himpunan bagian 4 elemen dari $A = \{a, b, c, d, e, f\}$ di mana a di dalam dan b tidak?

How many 4-elements subsets of $A = \{a, b, c, d, e, f\}$ are there where a is in but b is not in?

- a) 3 b) 4 c) 5 d) 6 e) 8

15. $f : [-5, 7] \rightarrow [m, n]$, $f(x) = x^2 - 6x + 16$

f ke (onto) $\Rightarrow m+n=?$

- a) 30 b) 94 c) 84 d) 78 e) 101

17. Jika titik puncak parabola

$f(x) = 2x^2 - a \cdot x + b$ adalah $(1, 4)$ maka $a \cdot b$?

If the vertex point of the parabola

$f(x) = 2x^2 - a \cdot x + b$ is $(1, 4)$, then $a \cdot b$?

- a) 8 b) 12 c) 16 d) 24 e) 10

16. $g(x) \leq 0$, $f(x) = 3x^2 + a$,

$(fog)(x) = 12x^4 + a \Rightarrow g(x) = ?$

- a) $12x^4 - 3x^2$ b) $4x - 1$ c) $-2x^2$
 d) $2x$ e) $12x - 3$

18. $\sqrt{x+2+2\sqrt{4x-8}} = 2+\sqrt{3} \Rightarrow x=?$

- a) $-\sqrt{5}$ b) 1 c) $\sqrt{3}$ d) 5 e) $2\sqrt{5}$

19. $3^x = 5 \Rightarrow 25 \cdot 9^x - 81^x = ?$

- a) 0 b) 1 c) 5 d) 2 e) 3

20. $\begin{cases} 3^a + 3^b = 108 \\ 3^a - 3^b = 54 \end{cases} \Rightarrow 3^{b-a} = ?$

- a) 3^2 b) 3^1 c) 3^{-2} d) 3^3 e) 3^{-1}

21. $(4^x + 2^x)^2 - (4^x - 2^x)^2 = 2^{20} \Rightarrow x = ?$

- a) $\frac{19}{3}$ b) 5 c) 6 d) $\frac{20}{3}$ e) 9

22. $a \neq 0, \sqrt{a} - \frac{1}{a} = -2 \Rightarrow a + \sqrt{a} = ?$

- a) -1 b) 1 c) 2 d) -2 e) 0

23.

$$\begin{cases} P(x+1) = x^4 + x^3 + x^2 + x + 8 \\ Q(x+2) = P(x+1) + P(2x+1) \end{cases}$$

Apa sisa polinomial $Q(x)$ dibagi oleh $(x-2)$?

What is the remainder of the polynomial

$Q(x)$ dividing by $(x-2)$?

- a) 10 b) 8 c) 16 d) 9 e) 18

$$\begin{array}{l} 24. \left. \begin{array}{l} 3x - 5y = a \\ 2x + 6y = 2 \cdot a \end{array} \right\} \Rightarrow \frac{x}{y} = ? \end{array}$$

- a) 5 b) 1 c) 2 d) 3 e) 4

$$25. x^2 - 6x + m - 1 = 0$$

Apabila akar persamaan adalah x_1 ve x_2 , maka

$$2x_1 + 3x_2 = 13 \Rightarrow m = ?$$

- a) 6 b) 3 c) 0 d) 5 e) -1

$$26. i^2 = -1, z = i^{-19} + i^{-2} + i^{1911} + i^{42} \Rightarrow \bar{z} = ?$$

- a) -2 b) -2-2i c) 2
d) -2+2i e) 2-2i

27. $\lim_{x \rightarrow 3} f(x) = 4$
 $\lim_{x \rightarrow 5} g(x) = -1$
 $\lim_{x \rightarrow -1} h(x) = 2$ $\Rightarrow \lim_{x \rightarrow 5} \frac{h(-x+4)}{g(x) \cdot f(x-2)} = ?$

- a) $\frac{1}{2}$ b) 2 c) $-\frac{1}{2}$ d) -2 e) -1

28. $\frac{\cos 95^\circ + \sin 185^\circ}{\sin 265^\circ} = ?$

- a) $2 \tan 5$ b) $-2 \tan 5$ c) $-\tan 10$
d) $\tan 10$ e) $-2 \sin 5$

29. $f(x) = x^2 - 2x + 1$

$$\lim_{x \rightarrow 3} \frac{f(x) - f(3)}{x - 3} = ?$$

- a) 3 b) 4 c) 5 d) 6 e) 7

30. $\log_{\sqrt{3}-\sqrt{2}} \sqrt{3} + \sqrt{2} = ?$

- a) -1 b) 1 c) 3 d) -3 e) 2

31. $\lim_{x \rightarrow \infty} \log_2 \frac{2x^2 + 1}{x + \frac{1}{2}x^2} = ?$

- a) 0 b) 1 c) 2 d) 3 e) 4

32. $f(x) = \frac{x!}{(x-4)!} \Rightarrow f'(3) = ?$

- a) 0 b) 3! c) 4! d) 2! e) 5!

33. $\int_a^b dx = 24, \int_a^b (2x-1) dx = 72 \Rightarrow a+b=?$

- a) -3 b) -2 c) 3 d) 2 e) 4

34. C konstan (constant)

$$\int x^2 \cdot f(x) dx = x^3 - 2x^2 + C \Rightarrow f(x) = ?$$

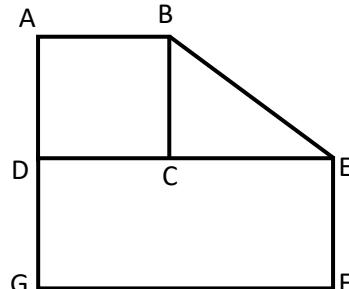
- | | | |
|----------------------|----------------------|----------------------|
| a) $3 - \frac{4}{x}$ | b) $3 + \frac{4}{x}$ | c) $4 - \frac{3}{x}$ |
| d) $4 + \frac{3}{x}$ | e) $2 - \frac{3}{x}$ | |

Berapakah hasil bilangan bulat minimum dari $x+y+z$?

What is the minimum integer value of $x+y+z$?

- a) 8 b) 9 c) 10 d) 6 e) 7

37.



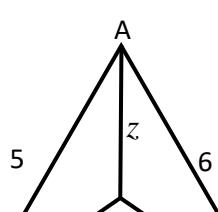
BCE segi tiga (triangle), $ABCD$ kotak (square), $DEFG$ persegi panjang (rectangle)
 $A(ABCD) = 225 \text{ br}^2$, $A(DEFG) = 345 \text{ br}^2$
 $|AD| = |DG| \Rightarrow |BE| = ?$

35. $\lim_{x \rightarrow 3} \frac{\sqrt{5x+1}-4}{x^3-2x^2} = ?$

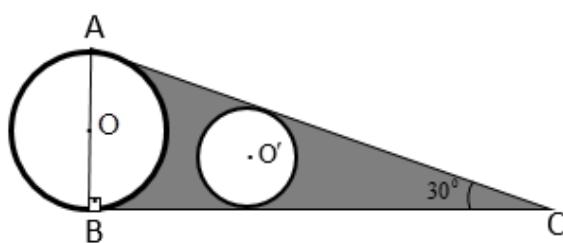
- a) 11 b) 13 c) 15 d) 17 e) 25

- a) $\sqrt{3}$ b) 1 c) 0 d) -1 e) $-\sqrt{3}$

36.



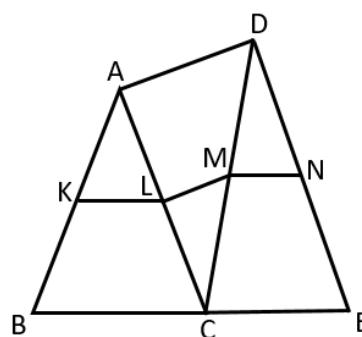
38.



O adalah pusat dari lingkaran bejari-jari $r = 4$. Jika O' pusat dari lingkaran dengan jari-jari $r' = 2$, dan ABC segitiga siku-siku. Berapa luas area yang diarsir? What is the shaded area? ($\pi = 3$)

- a) $8\sqrt{3} - 12$ b) $32\sqrt{3} - 36$ c) $8\sqrt{3} - 60$
 d) $32\sqrt{3} - 24$ e) $32\sqrt{3} - 60$

39.



$$|BC| + |CE| + |LM| = ?$$

- a) 26 b) 18 c) 20 d) 32 e) 38

$$5 \cdot |AL| = 3 \cdot |AC|$$

$$KL // BC$$

$$LM // AD$$

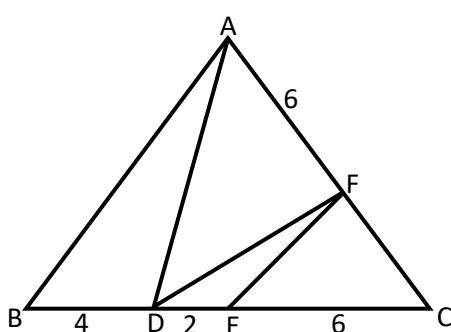
$$MN // CE$$

$$|AD| = 20$$

$$|MN| = 12$$

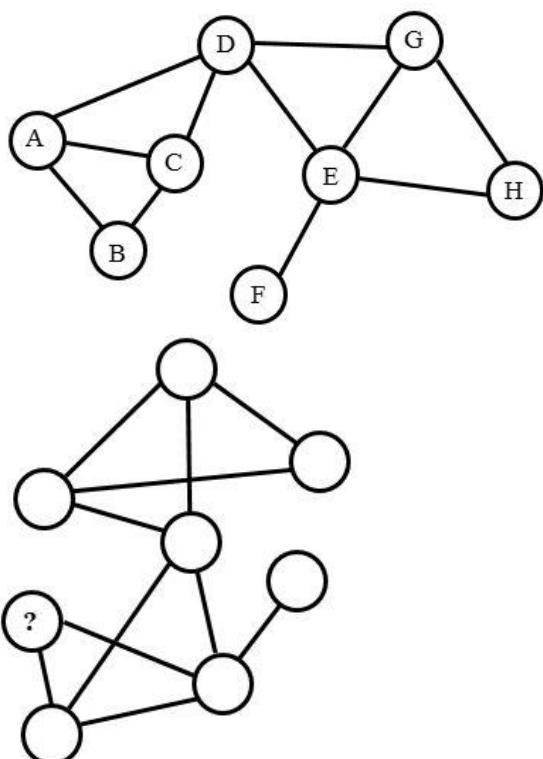
$$|KL| = 6$$

Diger Sayfaya Geçiniz

40.

$$\frac{A(\triangle ABD)}{A(\triangle FEC)} = 2, \quad |FC| = ?$$

- a) 2 b) 3 c) 4 d) 5 e) 6

41.

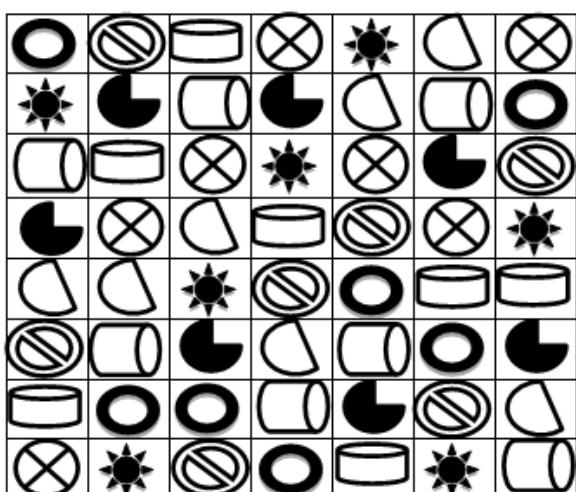
- a) G b) A c) C d) H e) B

42.

AKIL	ÇAKIL	ÇAKMA	AKILLAMA
9832	98732	88730	?

- a) 98832220 b) 99888320 c) 99883220
d) 99988320 e) 83299808

43.



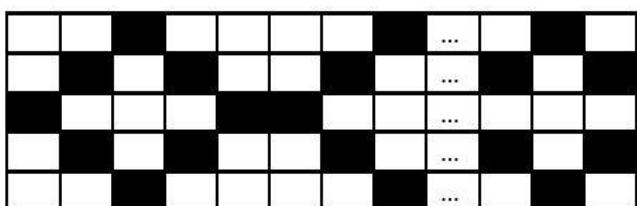
X	X
Y	

X	Z
Y	

$$Z = ?$$



44.

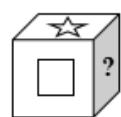
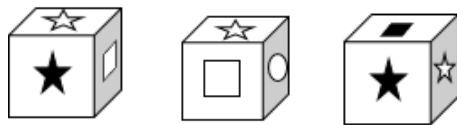


Ada 370 unit kotak pada gambar di atas. Berapa banyak kotak hitam yang ada?

There are 370 unit squares in the above figure.
How many black unit squares are there?

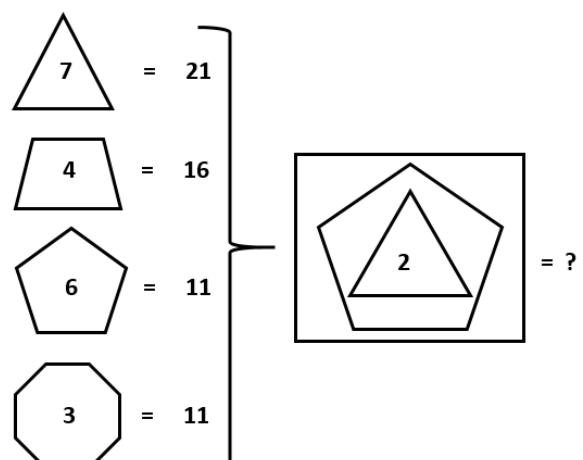
- a) 112 b) 109 c) 119 d) 258 e) 251

45.



- a) b) c) d) e)

46.



- a) 25 b) 29 c) 15 d) 14 e) 54

47.

$$\left. \begin{array}{l} \textcircled{+} + \textcircled{\oplus} + \textcircled{\otimes} = 2 \\ \textcircled{\otimes} - \textcircled{+} = 2 \\ \textcircled{\oplus} + \textcircled{\otimes} = -4 \end{array} \right\} \Rightarrow \frac{\textcircled{\oplus}}{\textcircled{+}} = ?$$

- a) $-\frac{1}{2}$ b) $\frac{4}{3}$ c) $-\frac{4}{3}$
d) 2 e) -2

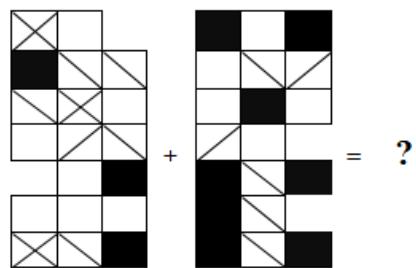
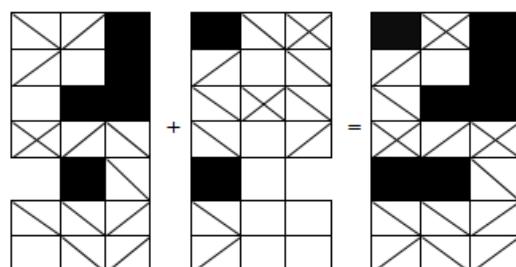
48.

\times	a	b
a	c	
b	-12	
c		-36

$$\Rightarrow a - b + c = ?$$

- a) 16 b) 15 c) 8 d) 2 e) -10

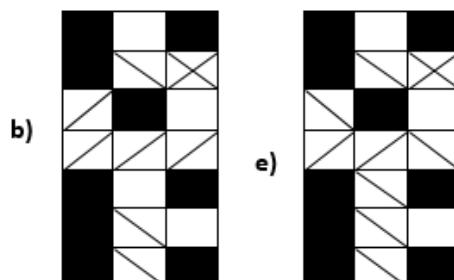
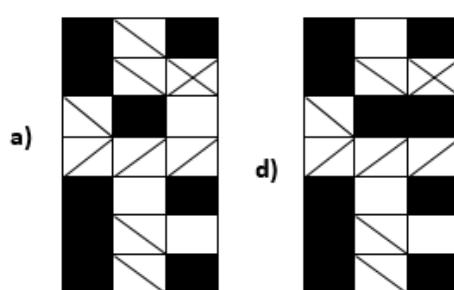
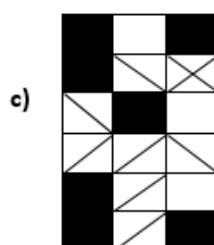
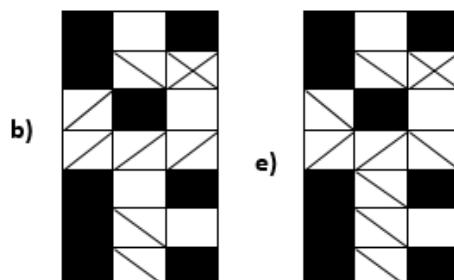
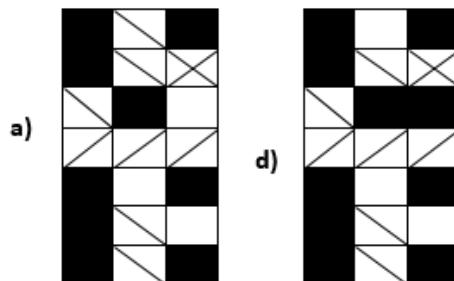
50.



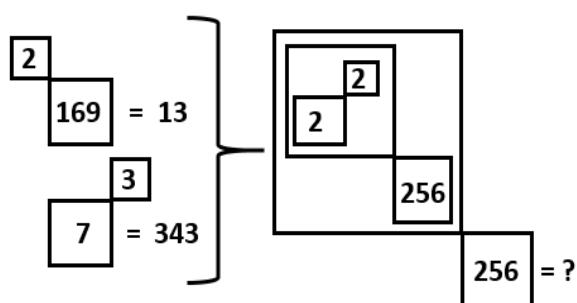
49.

3573	5583	5783
↔ ↔ ↑ ↓	↑ ↑ ↑ ↔	?

- a) $\downarrow \downarrow \uparrow \uparrow$ b) $\downarrow \uparrow \uparrow \uparrow$ c) $\downarrow \uparrow \uparrow \uparrow$
d) $\uparrow \uparrow \downarrow \uparrow$ e) $\uparrow \downarrow \uparrow \uparrow$



51.



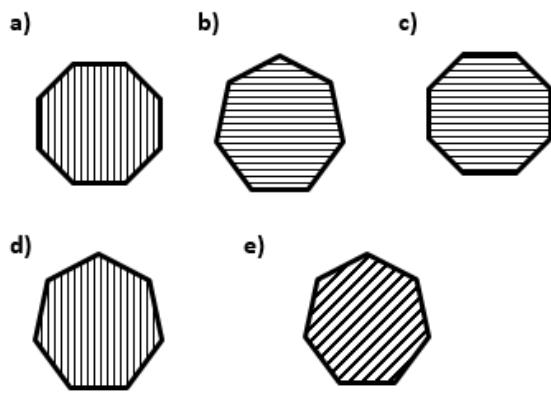
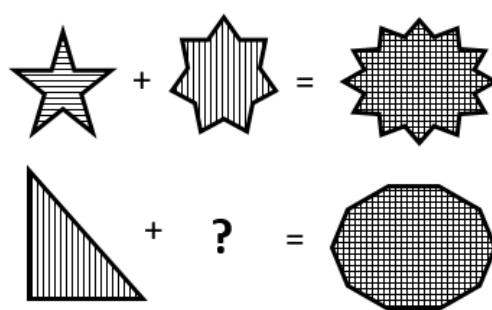
- a) 4 b) 2 c) 8 d) 16 e) $2\sqrt{2}$

52.

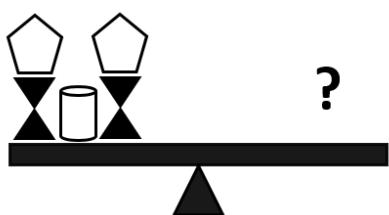
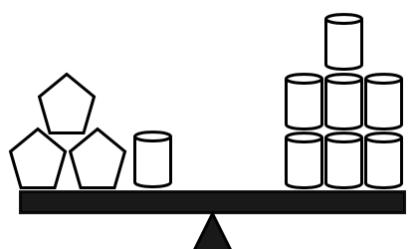
2	4	6
6	20	42
10	68	?

- a) 216 b) 222 c) 90 d) 94 e) 134

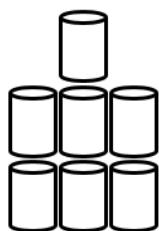
53.



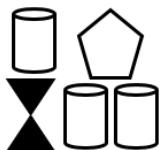
54.



a)



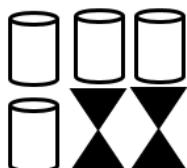
b)



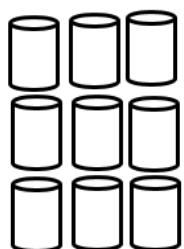
c)



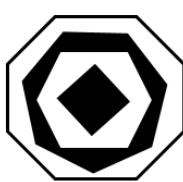
d)



e)



55.



28

50

?

a) 24

b) 48

c) 32

d) 23

e) 46

56.

$$79834520 = 83$$

$$30145279 = 13$$

$$90374682 = ?$$

a) 39

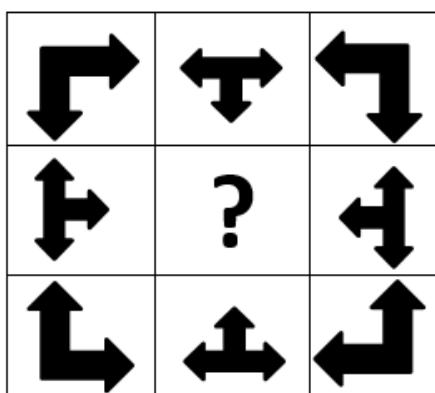
b) 93

c) 38

d) 83

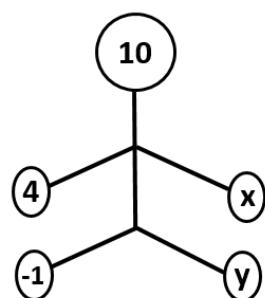
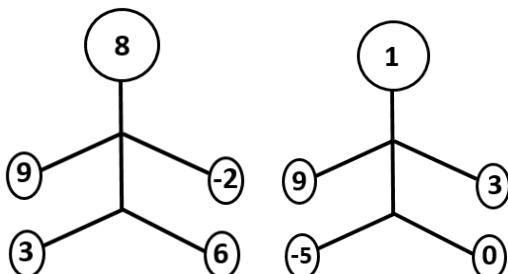
e) 73

57.



- a) b) c)
 d) e)

58.



$$x + y = ?$$

- a) 7 b) 13 c) -13 d) 9 e) -7

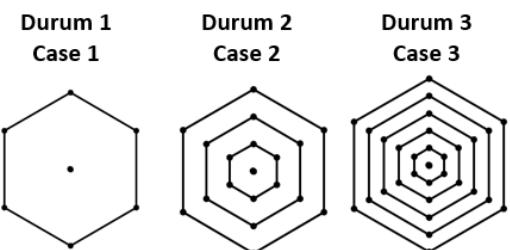
59.

105	115	125	135	Y
11025	X	15625	18225	21025

$$X+Y=?$$

- a) 12225 b) 13275 c) 13370
d) 13380 e) 13375

60.



Berapa banyak titik di opsi ke-9?

How many points are there in Case 9?

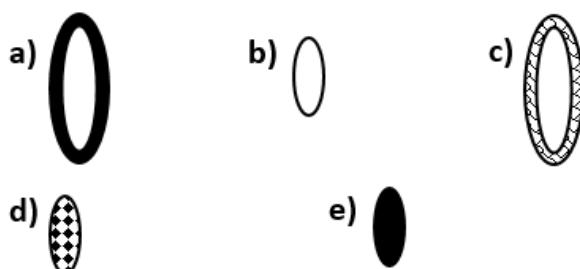
- a) 102 b) 103 c) 96
d) 97 e) 91

61.



Menurut gambar yang tertera, manakah di bawah ini yang menunjukkan bentuk ke 345 dari kiri?

What is the 345. figure from the left in accordance with the relationship established?

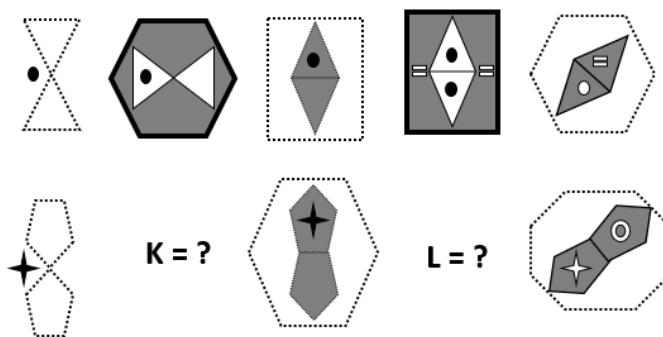


62.

Monday	M16742
Tuesday	T27963
Wednesday	W3912108
Thursday	T481296
Friday	?

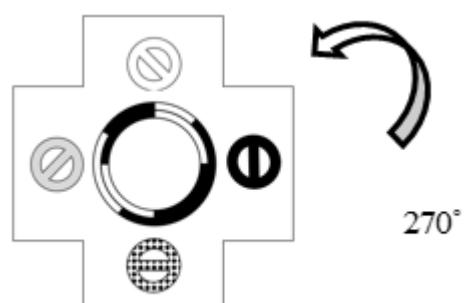
- a) F561166 b) F561066 c) F561060
d) F551015 e) F561260

63.



	K	L
a)		
b)		
c)		
d)		
e)		

64.



- a)
- b)
- c)
- d)
- e)

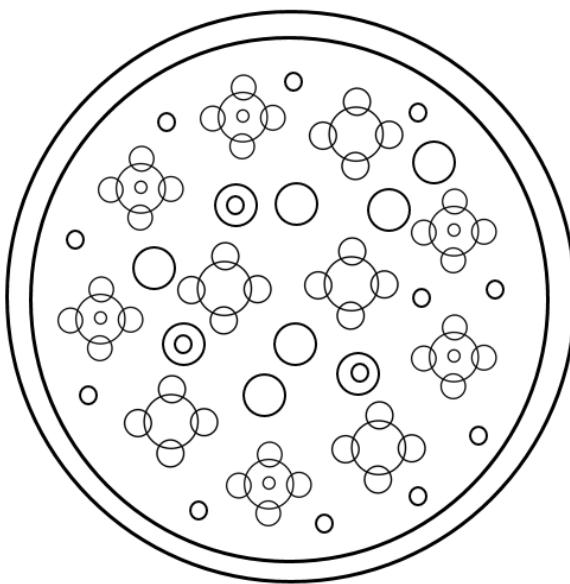
65.

a	2	4	b	1	3
5	1	d	6	2	4
1	5	6	3	4	c
3	4	e	1	6	5
4	f	1	2	5	6
2	6	5	4	3	g

$$a - b + c - d + e + f - g = ?$$

- a) 7 b) 8 c) 4 d) 0 e) 2

66.



Ada berapa lingkaran?

How many circles are there in the figure?

- a) 83 b) 84 c) 85 d) 86 e) 87

67.

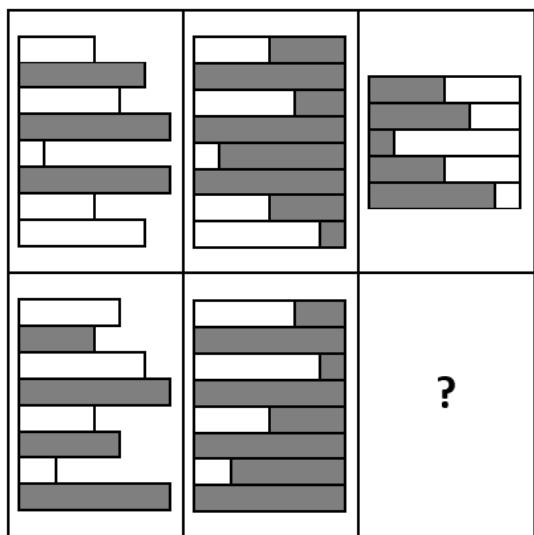
- 1 **S I N A V**
- 2 **N A V S I**
- 3 **V S I N A**
- .
- .
- .

1911

?

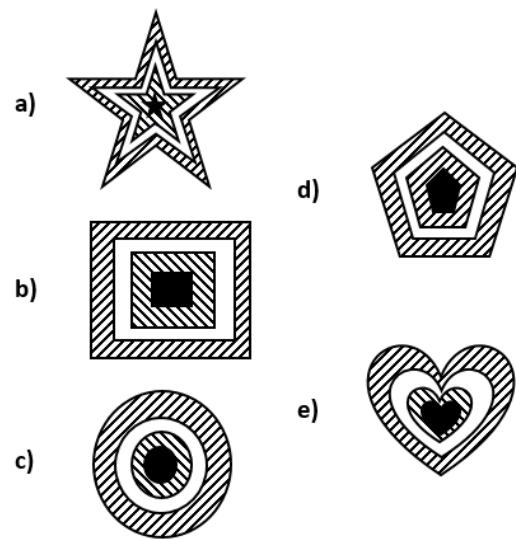
- a) **S I N A V**
- b) **N A V S I**
- c) **V S I N A**
- d) **I N A V S**
- e) **A V S I N**

68.

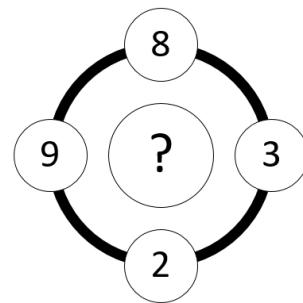
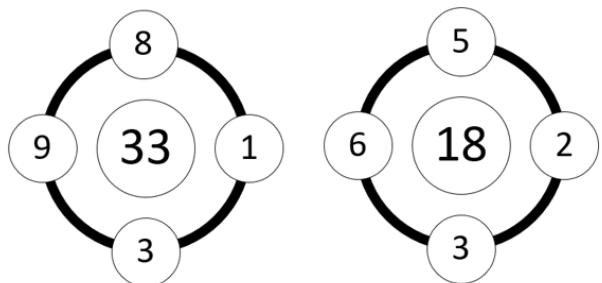


- a)
- b)
- c)
- d)
- e)

69. Dari beberapa bentuk di bawah, manakah yang memiliki karakteristik berbeda?
Which one of following figures is different from others in view of certain property?



70.



- a) 20 b) 19 c) 22 d) 31 e) 35

71.

85	7
92	4
75	3
62	6
7436	

94	3
56	1
57	9
71	7
3197	

58	K
47	L
66	M
17	N
T	

$$K + L + M + N + T = ?$$

- a) 6377 b) 6361 c) 6370
d) 3677 e) 3182

72.

PRAYA	{	89340
SOFYA		23414
TIRAN		56714

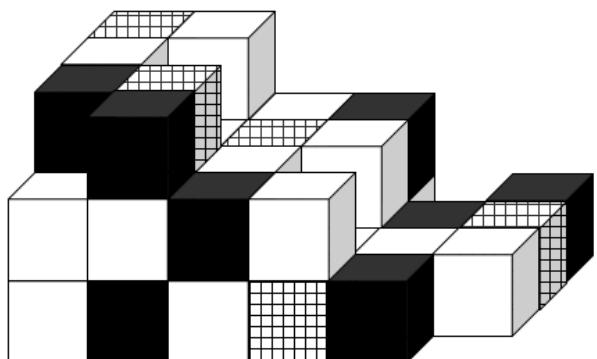
$$\text{ASTANA}=?$$

- a) 854808 b) 458404 c) 502585
d) 804858 e) 405484

73.

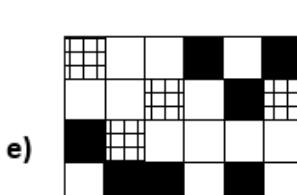
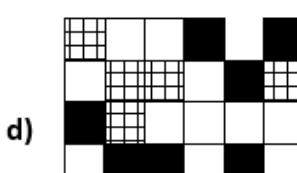
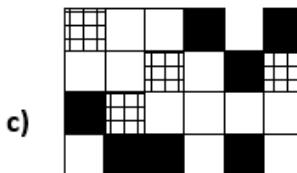
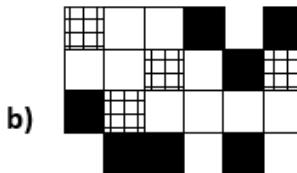
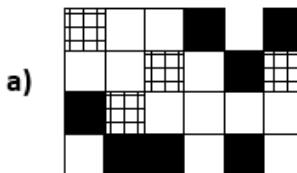
Üstten görünüm

The view from the top



Gambar mana yang paling benar? (The view from the top= Dilihat dari atas)

Which one of the following views is correct?

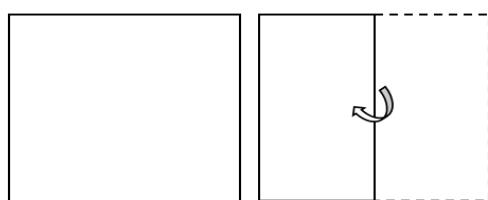


74.

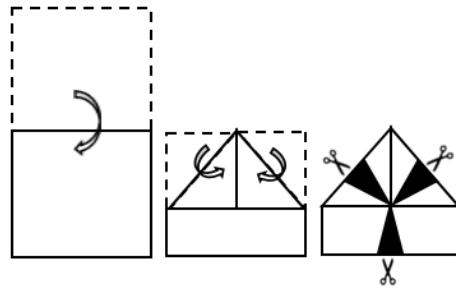
243, 162, 108, 72, 48, ?

- a) 42 b) 36 c) 24 d) 16 e) 32

75.

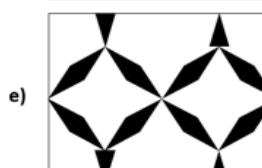
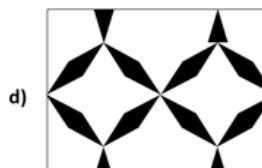
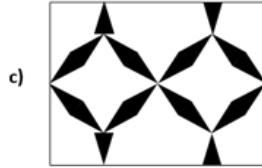
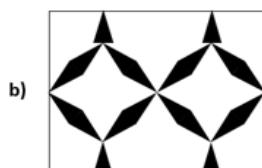
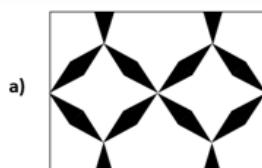


I II

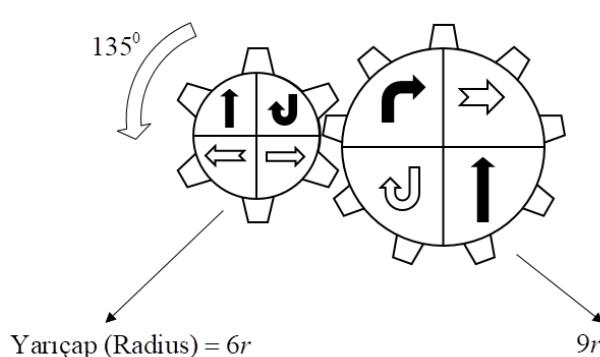


III IV V

Ketika kotak dibuka, gambar mana yang akan dihasilkan? When the given rectangle is unfolded, which one of the following figures is obtained?

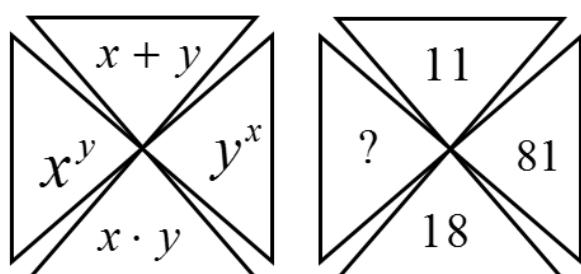


76.



- a)
- b)
- c)
- d)
- e)

77.



- a) 256 b) 81 c) 128 d) 512 e) 412

78.

1	ALMAK	ULAMAK	KUTLAMA
2	LMAKA	LAMAKU	UTLAMAK
3	MAKAL	AMAKUL	TLAMAKU
:
?	ALMAK	ULAMAK	KUTLAMA

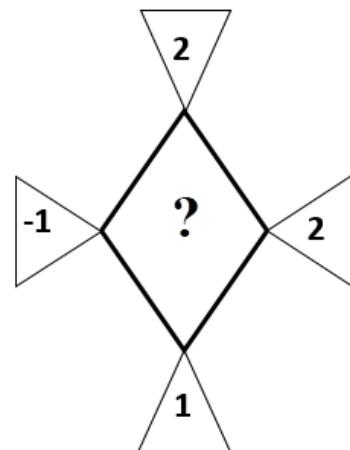
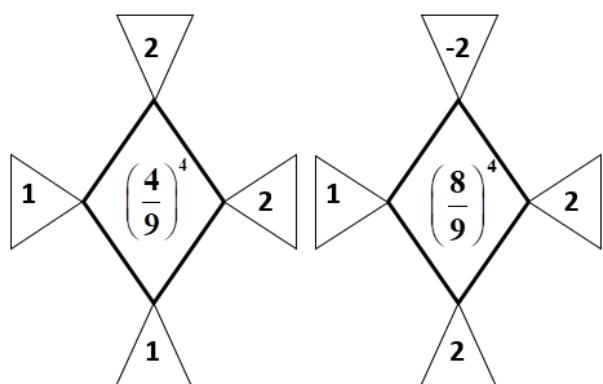
- a) 120 b) 150 c) 180 d) 210 e) 211

79.

K	T	P
K	L	**
*	T	Q

	*	**
a)	K	d
b)	K	d
c)	K	o
d)	K	d
e)	K	P

80.



- a) 2^8 b) 2^{-8} c) $\left(\frac{4}{9}\right)^4$ d) $\left(\frac{9}{4}\right)^4$ e) 2^4

UJI AKHIR.
PERIKSA JAWABAN ANDA.

END OF TEST.
PLEASE CHECK YOUR ANSWERS.

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Halaman ini dibiarkan kosong.

RULES TO BE FOLLOWED IN THE EXAM

1. It's strictly forbidden to call cellular (mobile) phones at the examination hall. Also forbidden are any other kind of electronic or communications equipment (other than watches that only show time), weapons, explosive materials, scrap paper, notebooks, books, dictionaries and related instruments, slide-ruler, rulers, compasses, and the like. If you do not follow these rules, your exam will be cancelled.
2. This examination will be held in one session. The session is Mathematics and IQ test and the time given to answer the items is **130 minutes**.
3. A candidate who has submitted his/her examination paper to a person in charge and left the examination hall for any reason whatsoever will not be allowed to re-enter the hall. After the examination starts, no candidate will be allowed to leave the examination hall during the first 60 minutes and during the last 15 minutes of the exam.
4. If you finish answering the questions early (that is, after the 60 minutes but before the last 15 minutes of given time for the test) and you do not want to take Turkish test, you may hand in your answer sheet and test booklet to a person in charge and leave the examination hall. Otherwise, you must remain seated and wait until all answer sheets and test booklets have been collected at the end of the exam.
5. During the test, it is forbidden to talk and ask questions to people in charge regarding the exam. It is also against the rules of the examination for people in charge to talk or whisper to any candidate. Similarly, it is forbidden to ask another candidate for a pencil, eraser, or anything else.
6. During the examination, candidates are required to comply with all the directions given to them by people in charge. If required, people in charge have the right to tell a candidate to change his/her seat. You must obey all instructions given to you. Otherwise, your name and application number will be recorded and your examination will be cancelled.
7. During the test, if anyone is caught on cheating, on trying to cheat, or on helping someone else to cheat, his/her name and application number will be recorded, and his/her exam will be cancelled. The people in charge are in no way required to warn candidates about cheating. During the examination, it is important that you exercise extreme care in not letting your answer sheet to be seen by another candidate. The distribution of candidates' answers to the questions will be analyzed by a computer program for indications of individual or widespread cheating after the exam. If it has been found by YTU Foreign Students Office (YDOK) that such a thing happened, answers of those candidates involved in cheating will be cancelled partly or completely. Similarly, if reports of irregularities in an examination hall come to the attention of YDOK after the exam, the exam results will be cancelled for all candidates who were present in that location.
8. It is important to fill in the necessary areas on the answer sheet. You must use only a soft lead pencil for writing your name, other information and marking answers. Do not use pen. Mark your answers only on the answer sheet. Answers marked in the test booklet will not be evaluated.
9. After the instruction of people in charge at the start of the exam, you must check to see that no pages are missing and all pages are readable in test booklets. You must inform people in charge immediately in such an event so that your test booklet can be changed. Check whether the letter printed on top of each page in the test booklet is the same as the letter printed on the cover of the booklet (A, B, C , D). If you realize there is such disparity later in the exam, you must ask those in charge for a new answer sheet with the same letter with your test booklet. Remember to mark the letter of the booklet on your answer sheet; otherwise, your exam will be invalid, since it will not be possible to evaluate your answers.
10. You must write your name, surname, candidate number, and examination hall number on the cover of your booklet with a pencil before starting your exam. Following the examination, all test booklets will be collected and inspected. If even one page of a test booklet is missing, the answer sheet will not be evaluated.
11. You may use the blank spaces on the pages of the test booklet as scrap paper for writing or calculating purposes.
12. No one, including people in charge, is allowed to eat and drink anything during the examination. Drinking water and eating candy covered with transparent packaging are allowed during the exam.
13. It is strictly forbidden to make a record of your answers on any paper and take it with you.
14. You must submit your test booklet and answer sheet to people in charge before you leave the examination hall.

(Türkçesi bir sonraki sayfadadır)

SINAVDA UYULACAK KURALLAR

1. Cep telefonu ile sınav salonuna girmek kesinlikle yasaktır. Çağrı cihazı, telsiz, vb. haberleşme araçları ile cep bilgisayarı, saat fonksiyonu dışında fonksiyonu bulunan saat vb. her türlü bilgisayar özelliği bulunan cihazlarla ve ayrıca silah vb. teçhizatla, müsvedde kâğıdı, defter, kitap, sözlük, sözlük işlevi olan elektronik aygit, hesap makinesi, hesap cetveli, pergel, açıölder, cetvel vb. araçlarla da sınava girmek yasaktır. Bu araçlarla sınava girmiş adaylar Salon Sınav Tutanağına yazılacak, bu adayların sınavları geçersiz sayılacaktır.
2. Bu sınav, tek oturum halinde düzenlenecektir. Bu oturum, Matematik ve Genel Yetenek testi olup; verilen cevaplama süresi **130 dakikadır**.
3. Sınavın ilk 60 ve son 15 dakikası içinde hiçbir adayın dışarı çıkışmasına izin verilmeyecektir. Cevaplama işlemini ilk 60 dakikadan sonra ve son 15 dakikadan önce tamamlarsanız cevap kâğıınızı ve soru kitapçığınızı salon görevlilerine teslim ederek salonu terk edebilirsiniz. Aksi takdirde sınav süresinin sona erdiği ilan edilene kadar yerlerinizde kalmalı ve tüm cevap kâğıtlarının ve soru kitapçıklarının toplanmasını beklemelisiniz. Sınav evrakını teslim ederek salonu terk eden aday, her ne sebeple olursa olsun tekrar sınava alınmayacaktır.
4. Sınav süresince görevlilerle konuşmak ve onlara soru sormak yasaktır. Aynı şekilde görevlilerin de adaylarla yakından ve alçak sesle konuşmaları; ayrıca, adayların birbirinden kalem, silgi vb. şeyleri istemeleri kesinlikle yasaktır.
5. Sınav sırasında görevlilerin her türlü uyarılara uymak zorundasınız. Gerektiğinde görevliler oturduğunuz yerleri de değiştirebilir. Sınavınızın geçerli sayılması, her şeyden önce sınav kurallarına uymanızla bağlıdır. Kurallara aykırı davranışta bulunur ve yapılacak uyarılarla uymazsanız kimliğiniz tutanağa yazılacak ve sınavınız geçersiz sayılacaktır.
6. Sınav sırasında kopya çeken, çekmeye girişen, kopya veren, kopya çekilmesine yardım edenlerin kimlik bilgileri Salon Sınav Tutanağına yazılacak ve bu adayların sınavları geçersiz sayılacaktır. Görevliler kopya çekmeye veya vermeye çalışanları uyarmak zorunda değildir. Sorumluluk size aittir. Sınav sırasında cevap kâğıınızı başkaları tarafından görülmeyecek şekilde tutmanız sizin için son derece önemlidir. Adayların sorulara verdikleri cevapların dağılımları bilgi işlem yöntemleriyle incelenecaktır. Bu incelemelerden elde edilen bulgular bireysel veya toplu olarak kopya çekildiğini gösterirse, kopya eylemine katılan adayların cevaplarının bir kısmı veya tamamı iptal edilecektir. Sınav görevlileri, bir salonda sınavın kurallara uygun biçimde yapılmadığını, toplu kopya girişiminde bulunulduğunu raporlarında bildirdiği takdirde, Yurt Dışı Öğrenci Ofisi (YDOK) takdir hakkını kullanarak bu salonda sınava giren adayların tümünün sınavını geçersiz sayabilir.
7. Cevap kâğıdında ilgili alanları doldurmanız gerekmektedir. Cevap kâğıdına yazılacak her türlü yazda ve yapılacak bütün işaretlemelerde kurşun kalem kullanılcaktır. Tükenmez kalem ve dolma kalem kesinlikle kullanılmayacaktır. Cevapların cevap kâğıdına işaretlenmiş olması gereklidir. Soru kitapçığına işaretlenen cevaplar geçerli değildir.
8. Sınav Görevlisinin talimatından sonra, sayfaların eksik olup olmadığını, kitapçıkta basım hatalarının bulunup bulunmadığını kontrol ediniz. Soru kitapçığınızın sayfası eksik veya basımı hatalı ise değiştirilmesi için derhâl sınav görevlisine başvurunuz. Soru kitapçığının her sayfasında basılı bulunan soru kitaplığı türünün, kitapçığın ön kapağında basılı soru kitaplığı türüyle aynı olup olmadığını kontrol ediniz. Farklı olması durumunda sınav görevlisinden yeni bir soru kitaplığını isteyiniz. Soru kitapçığınızın türünün değişik olduğunu daha sonra fark ederseniz, size o zamana kadar cevaplama yaptığınız türden, hatalız bir soru kitaplığı verilmesi için sınav görevlisine başvurunuz. Cevap kâğıdınız ile soru kitaplığı türünün aynı olması gereklidir. Farklı olması durumunda sınav görevlisine başvurunuz.
9. Cevaplama geçmeden önce size verilecek soru kitapçığının üzerinde ayrılan yere kurşun kaleme adınızı, soyadınızı, aday numaranızı ve bu salonun Salon Numarasını yazınız. Sınav sonunda soru kitapçıları toplanacak ve YDOK'ta tek tek incelenecaktır. Soru kitapçığının bir tek sayfası bile eksik çıkarsa sınavınız geçersiz sayılacaktır.
10. Soru kitapçığının sayfalarındaki boş yerleri müsvedde için kullanabilirsiniz.
11. Sınav sırasında, görevliler dahil, kimse sigara, pipo, puro vb. şeyleri içmeyecek ve hiçbir şey yemeyecektir. Şeffaf ambalajlı su içmek ve şeker yemek serbesttir.
12. Soruları ve bu sorulara verdığınız cevapları ayrı bir kâğıda yazıp bu kâğıdı dışarı çıkarmanız kesinlikle yasaktır.
13. Sınav salonundan ayrılmadan önce, soru kitapçığınızı ve cevap kâğıınızı salon görevlilerine teslim etmeyi unutmayıniz.

(English text is on previous page)

A KİTAPÇIĞI CEVAP ANAHTARI

1.	E
2.	D
3.	A
4.	A
5.	C
6.	A
7.	B
8.	A
9.	A
10.	C
11.	E
12.	B
13.	B
14.	B
15.	D
16.	C
17.	D
18.	D
19.	A
20.	E
21.	C
22.	B
23.	C
24.	E
25.	A
26.	A
27.	C
28.	A
29.	B
30.	A
31.	C
32.	B
33.	E
34.	A
35.	C
36.	C
37.	D
38.	B
39.	E
40.	B

41.	D
42.	B
43.	B
44.	C
45.	C
46.	B
47.	E
48.	A
49.	D
50.	E
51.	A
52.	B
53.	B
54.	E
55.	B
56.	B
57.	D
58.	E
59.	C
60.	B
61.	C
62.	A
63.	A
64.	B
65.	C
66.	D
67.	A
68.	C
69.	D
70.	B
71.	A
72.	B
73.	A
74.	E
75.	A
76.	C
77.	D
78.	E
79.	D
80.	A