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همراه شما
در مسیر یوس

سوالات یوس ۲۰۱۶
دانشگاه استانبول

Istanbul University
INTERNATIONAL STUDENTS' EXAM

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A

YURTDIŞINDAN VEYA YABANCI UYRUKLU ÖĞRENCİ SINAVI
TEMEL ÖĞRENME BECERİLERİ TESTİ

EXAMINATION FOR FOREIGN OR OVERSEAS STUDENTS
BASIC LEARNING SKILLS TEST

اختبار مهارات التعليم الأساسية
للطلاب المغتربين أو الأجانب

30.04.2016

ADI / NAME:
الاسم :

SOYADI / SURNAME:
اللقب :

ADAY NO / APPLICANT NUMBER:
رقم الطالب :

SINAV SALON NO / EXAM ROOM NUMBER:
رقم حجرة الاختبار :

Adınızı, soyadınızı, aday numaranızı ve sınav salon numaranızı yukarıya yazınız.

Write your name, surname, applicant number and exam room number in the appropriate places above.

أكتب في المكان الموضَّح أعلاه اسمك ولقبك ورقم الطالب الخاص بك ورقم حجرة الاختبار

Bu testlerin her hakkı saklıdır. Hangi amaçla olursa olsun, testlerin tamamının veya bir kısmının İstanbul Üniversitesi'nin yazılı izni olmadan kopya edilmesi, fotoğrafının çekilmesi, herhangi bir yolla çoğaltılması, yayımlanması ya da kullanılması yasaktır. Bu yasağa uymayanlar gerekli cezai sorumluluğu ve testlerin hazırlanmasındaki mali külfeti peşinen kabullenmiş sayılır.

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GENEL AÇIKLAMALAR

GENERAL INSTRUCTIONS

إرشادات عامة

1. Bu sınavdaki soruların nasıl cevaplanacağı, testlerin başında açıklanmıştır. Soruları cevaplamaya başlamadan önce bu açıklamaları dikkatle okuyunuz.
2. Bu testlerdeki her sorunun bir tek doğru cevabı vardır. Bir soru için birden çok cevap yeri işaretlenmişse, o soru yanlış cevaplanmış sayılacaktır.
3. Cevaplarınızı koyu siyah ve yumuşak bir kurşun kalemle işaretleyiniz. İşaretlerinizi cevap yerinin dışına taşırmayınız. Tükenmez kalem veya dolma kalem kullanmayınız.
4. Cevap kâğıdınızı buruşturmayınız, katlamayınız ve üzerine gereksiz hiçbir işaret koymayınız.
5. Değiştirmek istediğiniz bir cevabı, yumuşak bir silgiyle, cevap kâğıdını örselemeden, temizce siliniz ve yeni cevabınızı işaretlemeyi unutmayınız.
6. Bu testler puanlanırken, doğru cevaplarınızın sayısından yanlış cevaplarınızın sayısının dörtte biri düşülecek ve kalan sayı ham puanınız olacaktır.
7. Sınavda uyulacak diğer kurallar bu kitapçığın arka kapağında belirtilmiştir.

---

1. The exam instuctions appear at the begining of the tests. Please read these carefully before beginning.
2. 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.
3. You should use a soft, black pencil to mark the answer sheet. Completely fill in the circle for the answer you have chosen, but make sure your mark does not go beyond the borders of the circle. Do not use any kind of pen.
4. Keep the answer sheet flat and do not fold it. Do not make any unnecessary marks on it.
5. If you wish to change an answer, carefully erase it completely with a very soft eraser. Do not forget to mark your new answer.
6. In the scoring of the tests, for every four incorrect answers, one correct answer will be deducted; the remainder will be the raw score.
7. The other regulations concerning the administration of the tests will be found at the back of the booklet.

---

1 تمت الإشارة إلي طريقة الإجابة على الأسئلة الموجودة بهذا الإختبار في بداية الإختبارات؛ فيُرجي قراءة هذه الإرشادات قبل البدء في الإجابة على الأسئلة

2 هناك إجابة صحيحة واحدة لكل سؤال من الأسئلة الموجودة بهذه الإختبارات، وعند الإشارة على أكثر من إجابة واحدة لنفس السؤال، سيتم إعتبار إجابة هذ السؤال إجابة خاطئة

3 ظلل إجاباتك بقلم رصاص أسود وطري، مع مراعاة عدم التظليل خارج المكان المخصَّص للإجابة، وعدم استخدام القلم الجافّ أو قلم الحبر

4 يرجي عدم ثني أو طي إستمارة الإجابة نهائياً، مع مراعاة عدم وضع أي إشارة غير ضرورية عليها

5 إستخدم ممحاة ناعمة في مسح الإجابات التي تريد تغييرها، مع مراعاة الحفاظ على استمارة الإجابة أثناء عملية المسح، والتظليل علي مكان الإجابة الجديدة بعد مسح الإجابة القديمة بشكل تامّ

6 عند وَضْع الدرجات الخاصّة بهذه الإختبارات سيتمّ انتقاص إجابة واحدة لكل أربعة إجابات خاطئة من العدد الكلي للإجابات الصحيحة واحتساب الدرجة النهائية على هذا الأساس

7 تم إيضاح القواعد الأخرى التي سيتم اتّباعها في هذا الإختبار في الصفحة الخلفية لغلاف كتيّب الأسئلة هذا

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TEMEL ÖĞRENME BECERİLERİ TESTİ

THE BASIC LEARNING SKILLS TEST

اختبار مهارات التعليم الأساسية

1. Bu test sizin soyut düşünme gücünüzü ölçmek için hazırlanmıştır.
2. Bu testte 70 soru vardır.
3. Bu sınavda verilen cevaplama süresi, 110 dakikadır.
4. Cevaplamaya istediğiniz sorudan başlayabilirsiniz. Cevaplarınızı işaretlerken soru kitapçığındaki soru numarası ile cevap kâğıdındaki cevap numarasının aynı olmasına dikkat ediniz.

---

1. This test is designed to measure your abstract reasoning.
2. This test is comprised of 70 questions.
3. The time given to answer the items is 110 minutes.
4. 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.

---

1 تم إعداد هذا الإختبار لقياس قوة التفكير التجريدي لدي الطالب

2 يتكوَّن هذا الإختبار من 70 سؤالاً

3 مدة الإجابة المخصَّصة لهذا الاختبار 110 دقيقة

4 بإمكانك أن تبدأ بالإجابة عن السؤال الذي ترغب في الإجابة عليه، مع ملاحظة أن يكون رقم السؤال الذي قمت بالإجابة عليه في كتيب الأسئلة هو نفس رقم الجواب المخصَّص لهذا السؤال في إستمارة الإجابة

NOT
NOTE
ملحوظة

ONDALIK KESİRLERİ GÖSTERMEK İÇİN TÜRKÇE METİNLERDE VİRGÜL (,) KULLANILIR.

DECIMALS ARE INDICATED BY A COMMA (,) IN TURKISH.

يتم استخدام " الفاصلة" (،) في النصوص التركية للإشارة إلي الكسور العشرية

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T.C. İSTANBUL ÜNİVERSİTESİ
1453

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1.

$(12-0{,}8\ .\ 0{,}5):(3{,}26+0{,}74)=?$

A) 0,8 B) 1,4 C) 2 D) 2,9 E) 3,2

2.

$$\left(3-\frac{1}{3-\frac{2}{3}}\right).\left(2+\frac{2+\frac{2}{3}}{8}\right)=?$$

A) 2 B) 3 C) 4 D) 6 E) 9

3.

$$\frac{4+\frac{3}{19}-\frac{35}{17}}{1+\frac{22}{19}-\frac{1}{17}}=?$$

A) 2 B) 1 C) $\frac{1}{2}$ D) $\frac{3}{323}$ E) $\frac{1}{323}$

4.

$$\frac{2^{x-1}+1}{1-2^{x+1}}=\frac{9}{4} \quad \Rightarrow \quad x=?$$

A) -3 B) -2 C) -1 D) 0 E) 2

5.

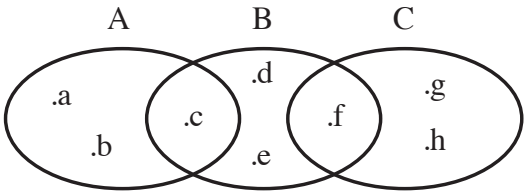
$0<x<y$

$$\sqrt{(x-y)^2}-\sqrt[4]{x^4}-\sqrt[3]{y^3}+\sqrt{x^4}=0$$

$x=?$

A) 1 B) 2 C) 3 D) 4 E) 5

6.



$n((B-C)\cap(B-A))=?$

A) 1 B) 2 C) 3 D) 4 E) 5

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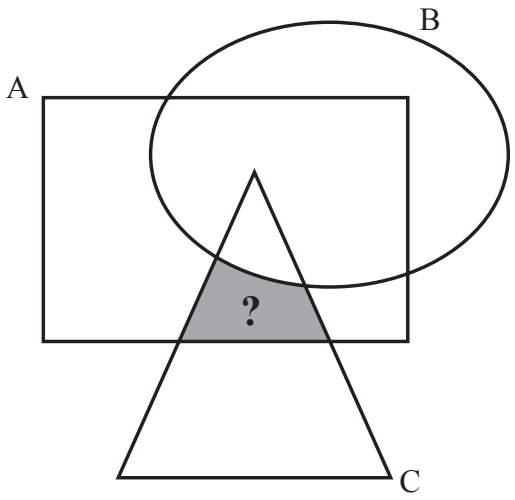
7.



A) $(A \cup B) \setminus C$ B) $(A \cap B) \setminus C$

C) $(A \cap B) \cup C$ D) $C \setminus (A \cap B)$

E) $(A \cap C) \setminus B$

8.

$$\left.\begin{array}{l} \dfrac{x-y}{3} = \dfrac{x+y}{5} \\ 3x - 8y = 8 \end{array}\right\} \Rightarrow \quad y = ?$$

A) 2 B) 3 C) 4 D) 6 E) 8

9.

$$\left(\frac{x^3+y^3}{x^3-y^3} : \frac{x^2-xy+y^2}{x-y}\right)\left(x^2+xy+y^2\right) = ?$$

A) x B) x^2 C) $x-y$

D) $x+y$ E) x^2y^2

10.

$$x \neq y \quad \Rightarrow \quad \frac{1}{\dfrac{x}{y^2} - \dfrac{1}{y}} + \frac{1}{\dfrac{y}{x^2} - \dfrac{1}{x}} = ?$$

A) $x-y$ B) $-x+y$ C) $-x-y$

D) $x+y$ E) $\dfrac{1}{x-y}$

11.

$$\frac{y}{3} = \frac{x}{5}$$
$$6x + 7y = 34$$
$$x - y = ?$$

A) $\dfrac{1}{3}$ B) $\dfrac{2}{3}$ C) $\dfrac{4}{3}$

D) $\dfrac{8}{3}$ E) $\dfrac{10}{3}$

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12.

$a>0,\ \ b>0,\ \ a*b=\dfrac{ab}{a+b}$

$\dfrac{1}{3}*\dfrac{2}{5}=\dfrac{1}{2}*m \quad \Rightarrow \quad m=?$

A) $\dfrac{2}{13}$ B) $\dfrac{1}{5}$ C) $\dfrac{2}{7}$ D) $\dfrac{7}{2}$ E) $\dfrac{13}{2}$

13.

$$\left.\begin{array}{l} f(x)=5x-7 \\ g(x)=\begin{cases} x^3+1\ ;\ x\geq 0 \\ 3x+5\ ;\ x<0 \end{cases} \end{array}\right\} \Rightarrow (g\circ f\circ g)(-1)=?$$

A) 2 B) 9 C) 13 D) 18 E) 28

14.

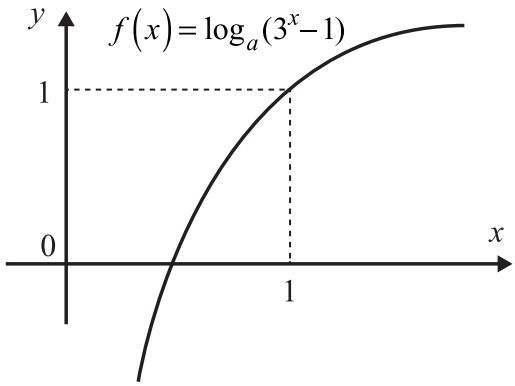
$P(x)=2x^7-3x^3+4x^2+mx$

$P(-1)=0$

$m=?$

A) -5 B) -3 C) 0 D) 3 E) 5

15.



$\log_a\left(4^a\right)=?$

A) 8 B) 4 C) 2 D) $\dfrac{1}{2}$ E) $\dfrac{1}{4}$

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16.

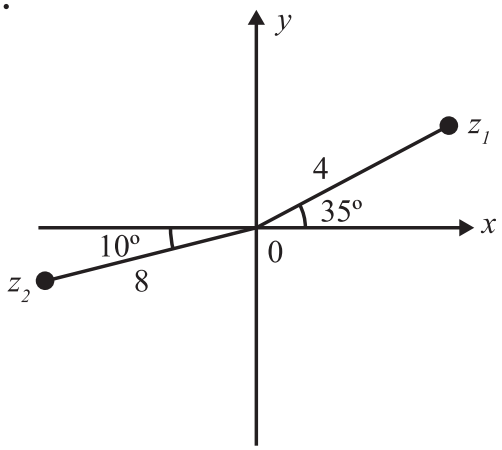
$x,\ y \in \mathbb{R}$

$(3-2i)(x+iy)-i(y+ix)=26+8i \quad \Rightarrow \quad x.y=?$

A) -15 B) -12 C) 18

D) 20 E) 21

17.



$\dfrac{z_1^2}{z_2}=?$

A) $-1-i\sqrt{3}$ B) $-\sqrt{3}+i$ C) $-\sqrt{3}-i$

D) $\sqrt{3}-i$ E) $1-i\sqrt{3}$

18.

$$A+B=\begin{bmatrix} 1 & 3 \\ 2 & 1 \end{bmatrix}$$

$$A-2B=\begin{bmatrix} 3 & 1 \\ -1 & 2 \end{bmatrix}$$

$A=?$

A) $\begin{bmatrix} \frac{5}{3} & \frac{7}{3} \\ 1 & \frac{4}{3} \end{bmatrix}$ B) $\begin{bmatrix} \frac{5}{3} & \frac{7}{3} \\ -1 & \frac{4}{3} \end{bmatrix}$

C) $\begin{bmatrix} \frac{4}{3} & \frac{7}{3} \\ -\frac{1}{3} & \frac{5}{3} \end{bmatrix}$ D) $\begin{bmatrix} \frac{4}{3} & \frac{7}{3} \\ -\frac{1}{3} & -\frac{5}{3} \end{bmatrix}$

E) $\begin{bmatrix} \frac{5}{3} & -\frac{7}{3} \\ -1 & -\frac{4}{3} \end{bmatrix}$

19.

$$\begin{vmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ -7 & -8 & -9 \end{vmatrix} + \begin{vmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{vmatrix} = ?$$

A) 0 B) 1 C) 7

D) 10 E) 12

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20.

$$\left(\frac{\sin 2x}{2}+\frac{\sin^2 x}{\frac{1}{\tan x}+\operatorname{cosec} x}\right):\cos x=?$$

A) $\sin x$ B) $\cos x$ C) $\tan x$

D) $\cot x$ E) 1

21.

$$\lim_{x\to 0^+}\sqrt[x]{1-2x}=?$$

A) e^{-2} B) e^{-1} C) e D) e^2 E) e^3

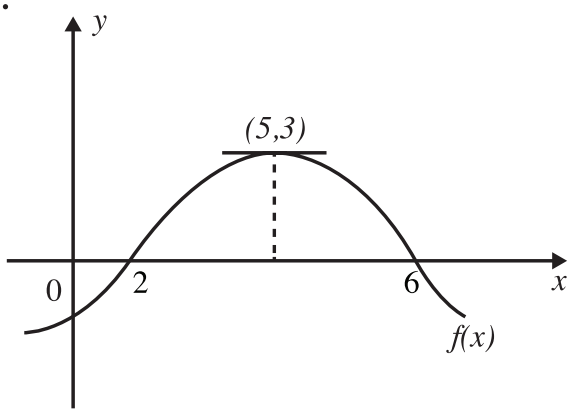
22.

$$\lim_{x\to 2}\frac{x^3-8}{x^2-4}=?$$

A) $-\infty$ B) -1 C) 0

D) 3 E) $+\infty$

23.

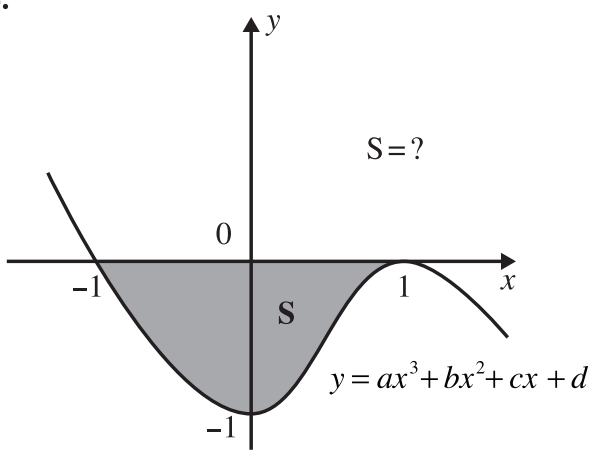


$$g(x)=\frac{f(x)}{x} \quad \Rightarrow \quad g'(5)=?$$

A) $\frac{-3}{25}$ B) $\frac{-3}{5}$ C) 0

D) $\frac{3}{5}$ E) $\frac{3}{25}$

24.



A) $\frac{2}{3}$ B) 1 C) $\frac{4}{3}$

D) $\frac{5}{3}$ E) 2

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25.

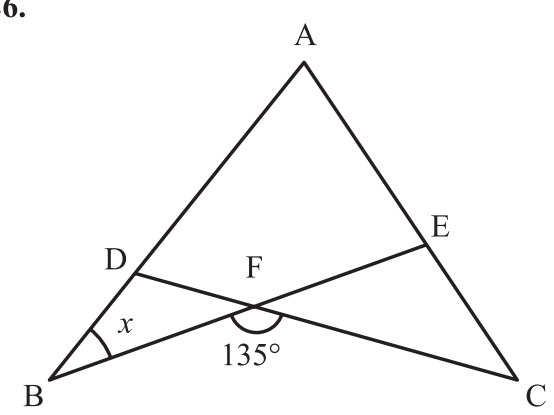
$$f(x)=\begin{cases} x^{-1}, & x<e \\ x, & x\geq e \end{cases}$$

$$\int_1^3 f(x)\,dx = ?$$

A) $\ln 3$ B) $\ln 3+\frac{9}{2}$ C) $\frac{1}{2}-e$

D) $\frac{11-e^2}{2}$ E) $\frac{e^2-3}{2}$

26.



$m(BFC)=135^\circ$

$|AB|=|BE|$

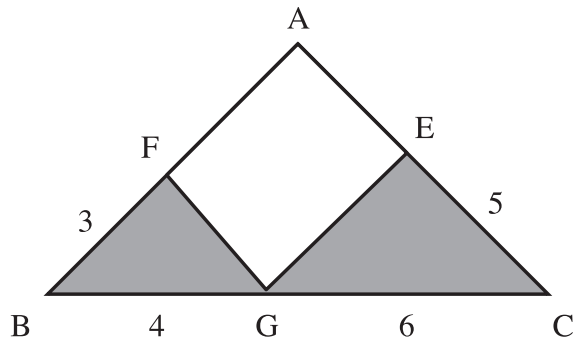
$|AC|=|CD|$

$x=m(ABE)=?$

A) 28 B) 30 C) 32

D) 42 E) 48

27.



$|AB|=|AC|$

$$\frac{A(\overset{\triangle}{EGC})}{A(\overset{\triangle}{BFG})}=?$$

A) $\frac{2}{5}$ B) $\frac{3}{5}$ C) 1 D) $\frac{5}{3}$ E) $\frac{5}{2}$

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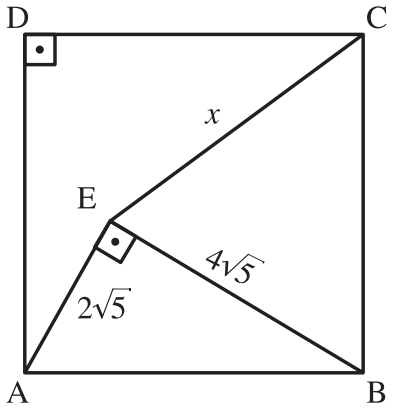
28.



$[CD] \perp [AD]$

$|CD| = |CB| = |AD| = |AB|$

$|AE| = 2\sqrt{5}\ cm$

$|BE| = 4\sqrt{5}\ cm$

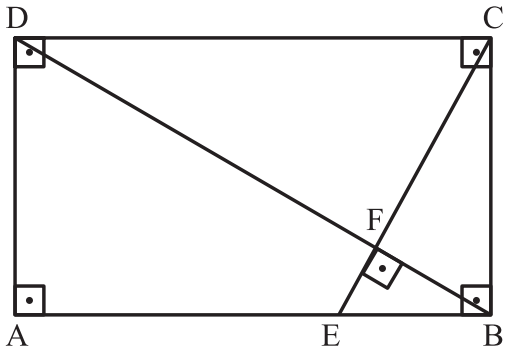
$[BE] \perp [AE]$

$|EC| = x \quad \Rightarrow \quad x = ?\ cm$

A) $4\sqrt{5}$ B) 10 C) 12

D) 15 E) 18

29.



$[CE] \perp [DB]$

$|EF| = 2\ cm$

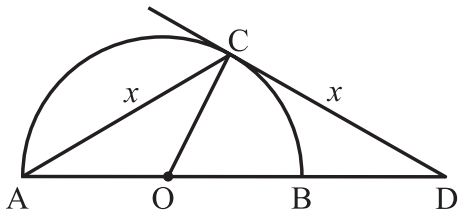
$|DF| = 4|FB|$

$A(ABCD) = ?$

A) 16 B) 64 C) 80

D) 160 E) 200

30.



$|AO| = |OB| = |OC| = 2$

$|AC| = |CD| = x$

$x = ?$

A) 2 B) $2\sqrt{2}$ C) 3

D) $2\sqrt{3}$ E) 4

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31.

Aşağıda verilen sayılar belirli bir kurala göre yazılmıştır. Buna göre "x" kaçtır?

The numbers given below are written according to a rule. Accordingly, what is the value of "x" ?

تمت كتابة الأعداد التالية طبقاً لقاعدة محددة ؛ فما هو العدد المناسب إحلاله بدلاً من رمز "x" ؟

0, 5, 8, 17, 24, 37, x

A) 54 B) 52 C) 50 D) 48 E) 46

32.

Aşağıda verilen sayılar belirli bir kurala göre yazılmıştır. Buna göre "x" kaçtır?

The numbers given below are written according to a rule. Accordingly, what is the value of "x" ?

تمت كتابة الأعداد التالية طبقاً لقاعدة محددة ؛ فما هو العدد المناسب إحلاله بدلاً من رمز "x" ؟

3, 6, 12, 15, 21, 24, x, 33, 39

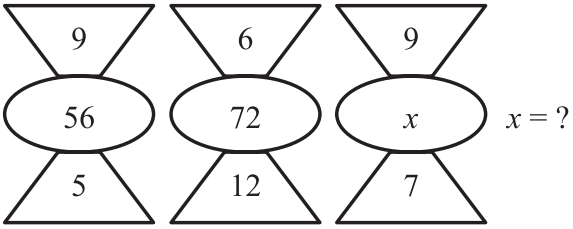
A) 26 B) 27 C) 28 D) 30 E) 32

33.

Aşağıda verilen sayılar belirli bir kurala göre yazılmıştır. Buna göre "x" kaçtır?

The numbers given below are written according to a rule. Accordingly, what is the value of "x" ?

تمت كتابة الأعداد التالية طبقاً لقاعدة محددة ؛ فما هو العدد المناسب إحلاله بدلاً من رمز "x" ؟



A) 42 B) 45 C) 48 D) 56 E) 64

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34.

I. gruptaki harfler birer rakamla gösterilerek II. gruptaki sayılar elde edilmiştir. Soru işareti ile belirtilen kelime hangi sayı ile gösterilir?

The numbers in group II *are obtained by denoting the letters in group* I *with a digit. Which number corresponds to the word represented with the question mark?*

تم الحصول علي الأعداد الموجودة بالمجموعة الثانية وذلك بالإشارة إلي القيمة الحسابية للحروف الموجودة بالمجموعة الأولي؛ فما هو العدد المناسب إحلاله بدلاً من "الكلمة المُستفهم عنها" أدناه؟

I.	II.
KULE	5916
ASKI	7329
LORA	6728
SEKO	2453

SUAL = ?

A) 7465 B) 7231 C) 6548 D) 5732 E) 4725

35.

Aşağıdaki tabloda 1, 2, 3, 4, 5 sayıları her satırda ve sütunda tam birer kez olacak şekilde yerleştirildiğinde "*X*" yerine hangi sayı gelir?

In the following table, when the numbers 1, 2, 3, 4, 5 are written in each column and row only once, which number comes instead of "X" ?

ما هو العدد المناسب إحلاله بدلاً من رمز "*X*" إذا ما كانت الأعداد 1, 2, 3, 4, 5 تحل جميعها مرة واحدة في كل أعمدة وأسطر الجدول الحسابي الموجود أدناه ؟

1			3	4
		X		
2			5	1
	1			3
4			2	

A) 1 B) 2 C) 3 D) 4 E) 5

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36.

Aşağıdaki tabloda 1, 2, 3, 4, 5 sayıları her satırda ve sütunda tam birer kez olacak şekilde yerleştirildiğinde "*X*" yerine hangi sayı gelir?

In the following table, when the numbers 1, 2, 3, 4, 5 are written in each column and row only once, which number comes instead of "X" ?

ما هو العدد المناسب إحلاله بدلاً من رمز "*X*" إذا ما كانت الأعداد 5, 4, 3, 2, 1 تحل جميعها مرة واحدة في كل أعمدة وأسطر الجدول الحسابي الموجود أدناه ؟

5	1			
		4		3
			X	
	2	5		
1		3		2

A) 1 B) 2 C) 3 D) 4 E) 5

37.

+	*a*	*b*
a		
b	5	

×	*a*	*b*
a		3
b		

Yukarıdaki çarpma ve toplama tablolarında *a* ve *b* harfleri birer sayının yerine kullanılmıştır. Buna göre, $(a-b)^2$ kaçtır?

*In the multiplication and addition tables above, the letters **a** and **b** each stands for a number. Accordingly, what is the value of $(a-b)^2$?*

في جدولي الجمع والضرب الموجودين أعلاه تم إستبدال الأرقام الحسابية برموز حروف "*a, b*" ؛ فما هي القيمة الحسابية لـــــ $(a-b)^2$ ؟

A) 12 B) 13 C) 18 D) 21 E) 24

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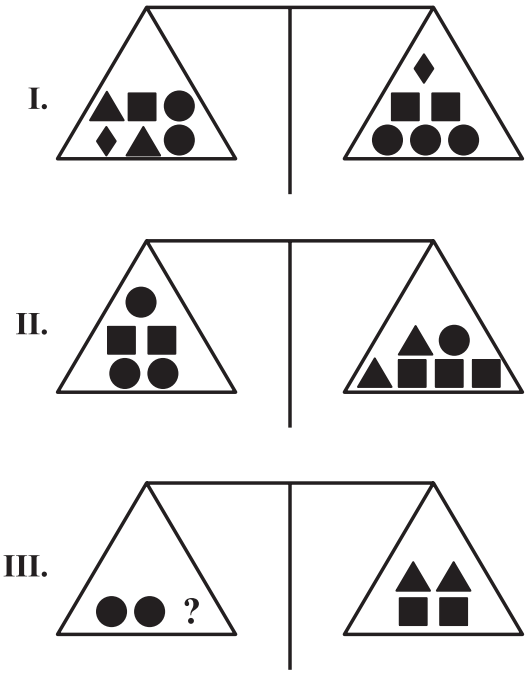
38.



Yukarıdaki terazilerin üçü de dengede olduğuna göre, III. terazide "?" aşağıdakilerden hangisini göstermektedir?

As three of the scales above are balanced, which of the following does "?" in the scale **III** *correspond to?*

ما هو الشكل الذي يعوض "أداة الإستفهام" الموجودة في الميزان الثالث ؛ إذا ما كانت الموازين الثلاثة الواردة أعلاه متساوية؟

A) ■

B) ▲●

C) ■●

D) ▲

E) ■▲●

39.

Aşağıdaki toplama tablosuna göre "?" yerine aşağıdakilerden hangisi gelir?

According to the addition table below, instead of "?" which shapes should come?

ما هو الشكل المناسب إحلاله بدلاً من "أداة الإستفهام" الواردة أدناه طبقاً لجدول الجمع التالي؟

+	● ●	▲
●		● ● ●
▲	■	

▲+▲+■ = ?

A) ■ ■ ▲

B) ■ ● ● ●

C) ● ● ▲ ▲

D) ● ● ● ●

E) ■ ▲ ● ●

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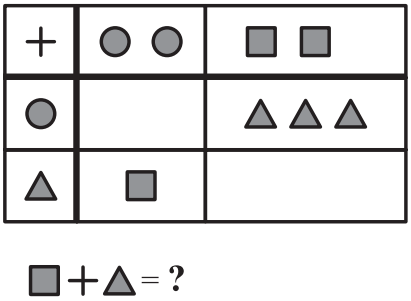
40.

Aşağıdaki toplama tablosuna göre "?" yerine aşağıdakilerden hangisi gelir?

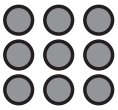
According to the addition table below, instead of "?" which shapes should come?

ما هو الشكل المناسب إحلاله بدلاً من "أداة الإستفهام" الواردة أدناه طبقاً لجدول الجمع التالي؟

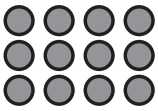


A)

B)

C) 

D)

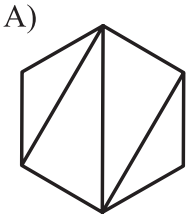
E) 

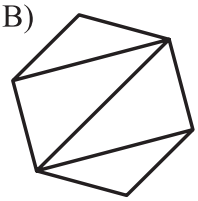
41.

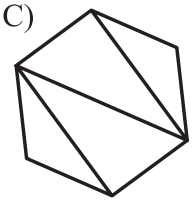
Aşağıdaki şekillerden hangisi farklıdır?

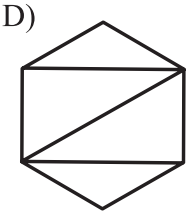
Which of the following shapes is different?

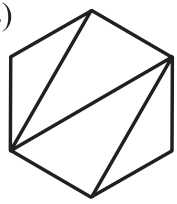
ماهو الشكل المختلف في الأشكال التالية؟

A) 

B) 

C) 

D) 

E) 

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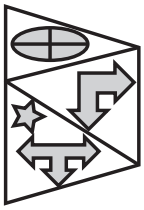
42.

Aşağıdaki şekillerden hangisi farklıdır?

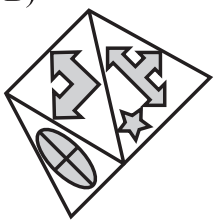
Which of the following shapes is different?

ما هو الشكل المختلف في الأشكال التالية؟

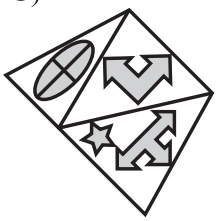
A)



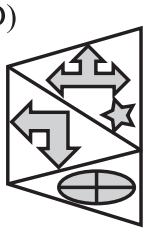
B)



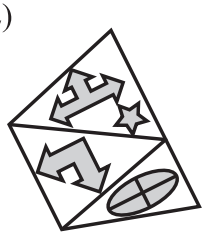
C)



D)



E)



43.

Aşağıdaki soruda her harf birbirinden farklı bir şekle karşılık gelmektedir. Buna göre aşağıdaki soru işaretlerini karşılayan değerler nedir?

In the following question, each letter corresponds to a shape different from each other. Accordingly, what are the values of question marks below?

في السؤال التالي يقابل كل حرف شكلاً مختلفاً ؛
فما هي القيمة المقابلة لـــ "أداتي الإستفهام" الواردتين أدناه؟

○	+	○	5	☆	+	5
☆	5	☆	+	5	☆	○
+	5	☆	+	5	○	+
+	α	α	○	☆	5	☆
5	α	+	5	α	○	5
α	○	5	5	α	5	5
α	☆	5	○	+	○	☆

I.

K	
K	
L	L

K = 5 L = α

II.

L	M
L	N

M = ? N = ?

	M	N
A)	+	☆
B)	☆	+
C)	○	☆
D)	☆	○
E)	○	+

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44.

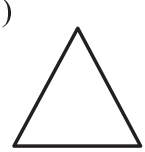
?

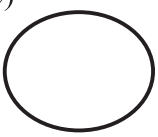
Yukarıdaki şekil dizisinde "?" yerine hangi şekil gelir?

In the sequence of shapes above, instead of "?" which shape should come?

ماهو الشكل المناسب إحلاله بدلاً من "أداة الإستفهام" الموجودة في سلسلة الأشكال الواردة أعلاه ؟

A)

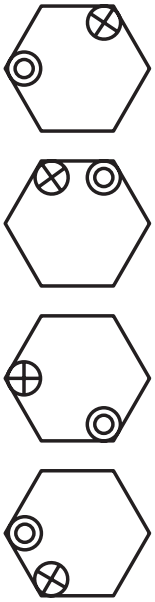
B) 

C) 

D)

E)

45.



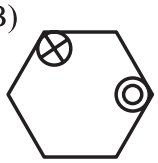
?

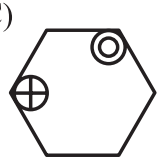
Yukarıdaki şekil dizisinde "?" yerine hangi şekil gelir?

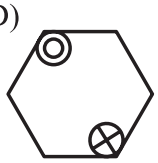
In the sequence of shapes above, instead of "?" which shape should come?

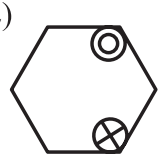
ماهو الشكل المناسب إحلاله بدلاً من "أداة الإستفهام" الموجودة في سلسلة الأشكال الواردة أعلاه ؟

A)

B) 

C) 

D) 

E) 

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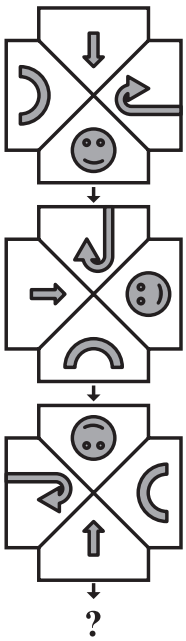
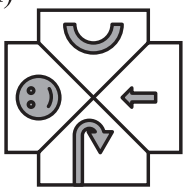
46.

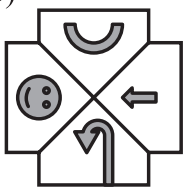
Aşağıdaki şekil dizisinde "?" yerine hangi şekil gelir?

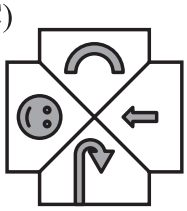
In the sequence of shapes below, instead of "?" which shape should come?

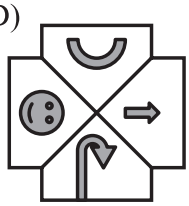
ما هو الشكل المناسب إحلاله بدلاً من "أداة الإستفهام" الواردة في سلسلة الأشكال التالية

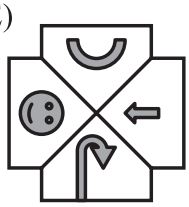


A)


B)


C)


D)


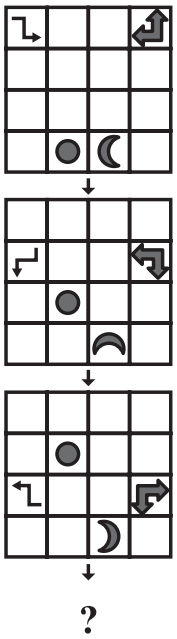
E)


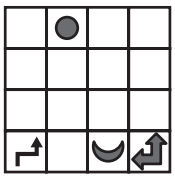
47.

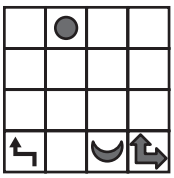
Aşağıdaki şekil dizisinde "?" yerine hangi şekil gelir?

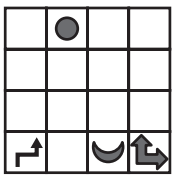
In the sequence of shapes below, instead of "?" which shape should come?

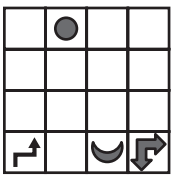
ما هو الشكل المناسب إحلاله بدلاً من "أداة الإستفهام" الواردة في سلسلة الأشكال التالية؟

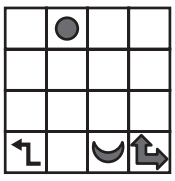


A)


B)


C)


D)


E)


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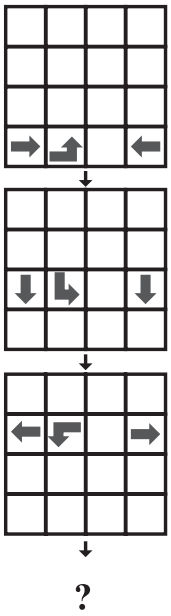
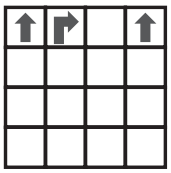
48.

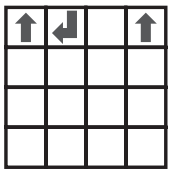
Aşağıdaki şekil dizisinde "?" yerine hangi şekil gelir?

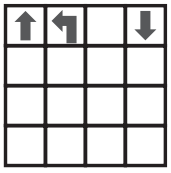
In the sequence of shapes below, instead of "?" which shape should come?

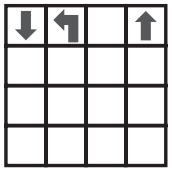
ما هو الشكل المناسب إحلاله بدلاً من "أداة الإستفهام" الواردة في سلسلة الأشكال التالية؟

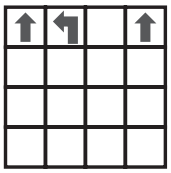


A)


B)


C)


D)


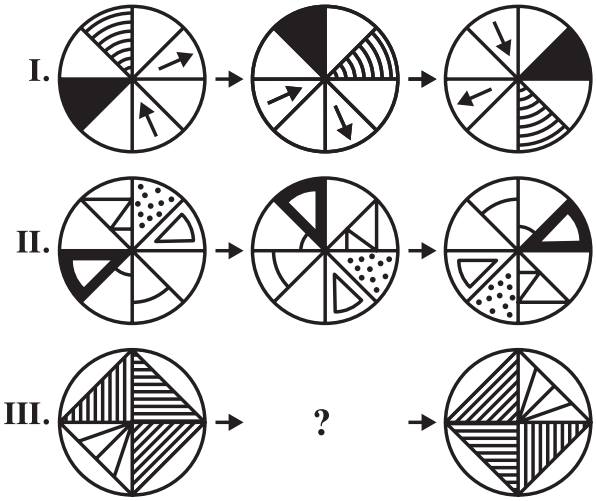
E)


49.

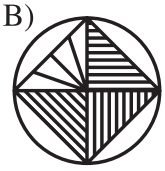
Aşağıdaki soruda, I. ve II. satırda belirlenen ilişkiye göre III. satırı hangi şeklin tamamladığını bulunuz.

In the following question, find the shape which completes row III in accordance with the relationship established in rows I and II.

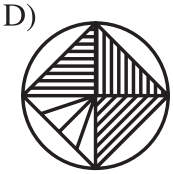
عيّن الشكل المتمم للسطر "الثالث" حسب العلاقة الموجودة بين الأشكال الواردة في السطرين الاول و الثانى في السؤال الوارد ادناه؟



A)

B)


C)

D)


E)

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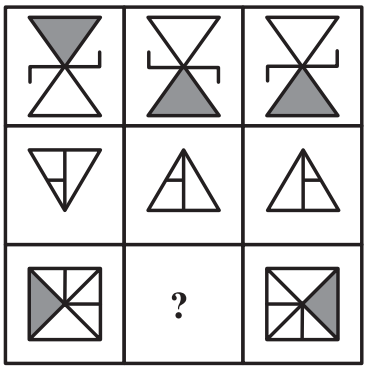
50.

Aşağıdaki soruda, verilen şekil matrisinde soru işareti yerine hangi şeklin getirilmesi gerektiğini bulunuz.

In the following question, find the shape which the question mark stands for in the given shape matrix.

ما هو الشكل المناسب إحلاله بدلا من "أداة الاستفهام" في قوالب الاشكال الواردة ادناه بالسؤال التالي؟



A)

B)

C)

D)

E)

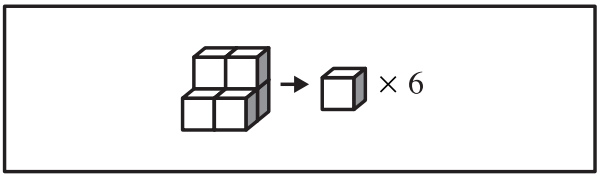
51.

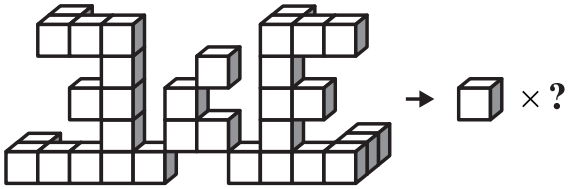
Aşağıdaki soruyu verilen örneğe göre cevaplayınız.

Answer the following question according to the example given below.

أجب عن السؤال التالي طبقاً للنموذج الوارد ادناه

Örnek – *Example* – نموذج





A) 30 B) 31 C) 32 D) 33 E) 34

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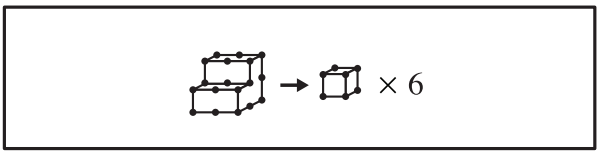
52.

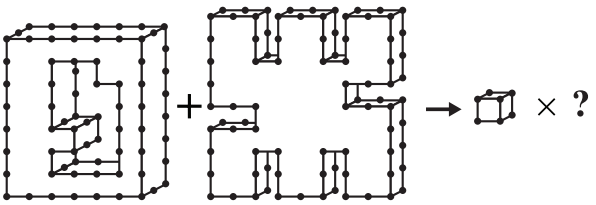
Aşağıdaki soruyu verilen örneğe göre cevaplayınız.

Answer the following question according to the example given below.

أجب عن السؤال التالي طبقاً للنموذج الوارد ادناه

Örnek – *Example* – نموذج

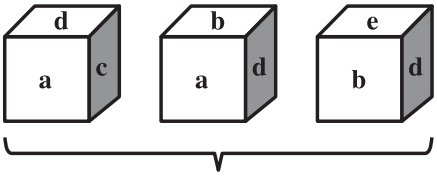


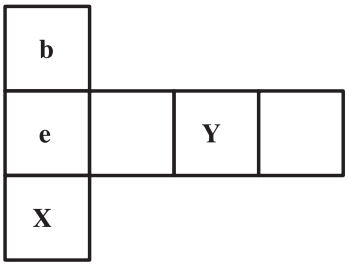


A) 104 B) 106 C) 108

D) 110 E) 112

53.





Yukarıdaki şekillerin tümü aynı kübü göstermektedir. Buna göre, "X" ve "Y" kübün hangi yüzlerini göstermektedir?

All of the shapes above show the same cube. Accordingly, which faces of the cube do "X" and "Y" show?

كل الأشكال الواردة أعلاه تشير إلي نفس المكعب ؛ فما هي أوجه المكعب التي يشير إليها رمزا "Y, X"؟

	X	Y
A)	c	d
B)	d	a
C)	a	d
D)	c	a
E)	d	c

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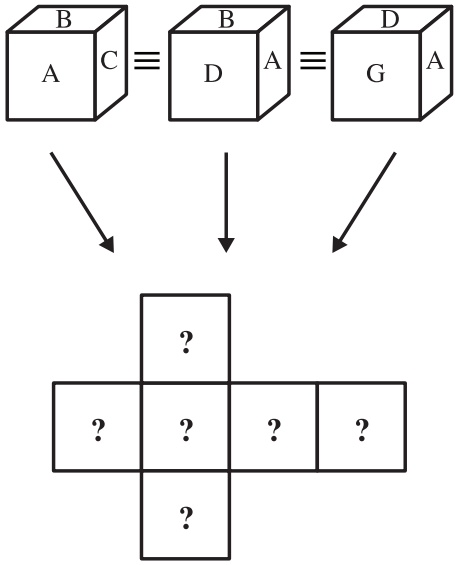
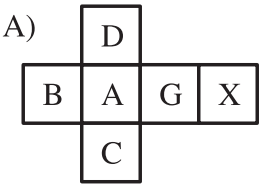
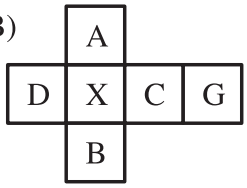
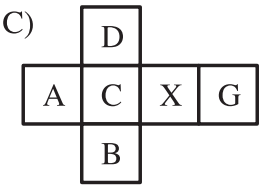
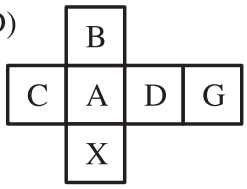
54.

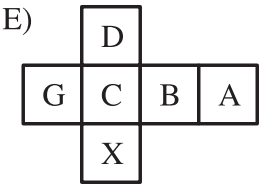


A)


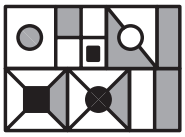
B)


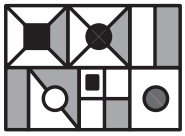
C)


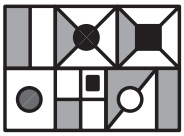
D)


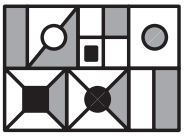
E)


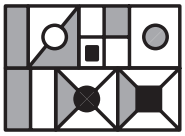
55.

A)


B)


C)


D)


E)


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56.

×	a	b	c
a		8	
b			12
c	6		

$a > 0, \quad b > 0, \quad c > 0$

$a = ?$

A) 2 B) 3 C) 4

D) 6 E) 8

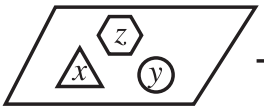
57.

$$\frac{2 \cdot \blacksquare - 3}{3 \cdot \blacksquare - 2} = \frac{4}{3} \Rightarrow \blacksquare = ?$$

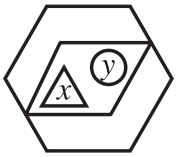
A) $-\frac{1}{3}$ B) $-\frac{1}{6}$ C) $-\frac{1}{9}$

C) 3 C) 6

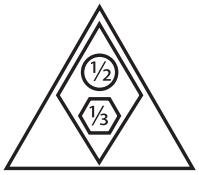
58.

I. 

$\rightarrow x^3 + \frac{1}{y} + 6z$

II. 

$\rightarrow 6\left(x^3 + \frac{1}{y}\right)$

III. 

$\rightarrow$?

A) 28 B) 32 C) 36

D) 48 E) 64

59.

▲	○	□	*	Σ	ℤ
○	□	*	Σ	ℤ	○
□	*	Σ	ℤ	○	□
*	Σ	ℤ	○	□	*
Σ	ℤ	○	□	*	Σ
ℤ	○	□	*	Σ	ℤ

[(ℤ▲□) ▲ (○▲Σ)]▲ (*▲?) ≡ ℤ

A)○ B) □ C) * D) Σ E)ℤ

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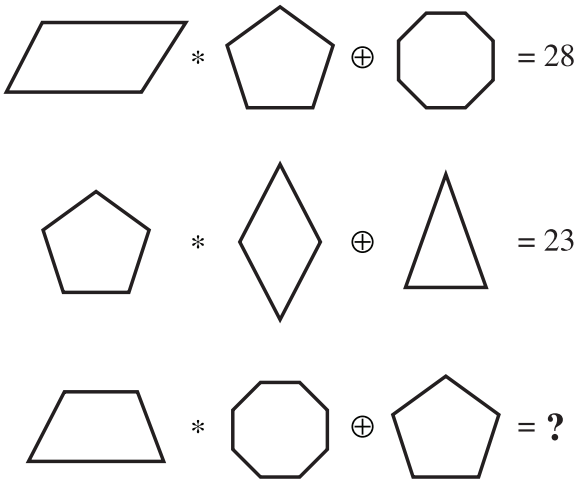
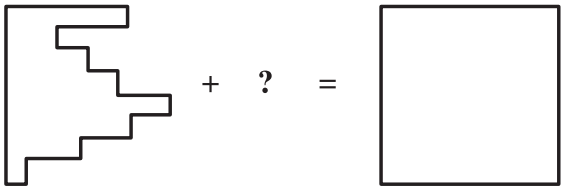
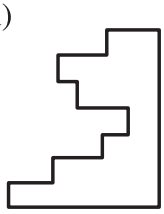
60.

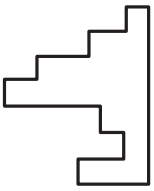


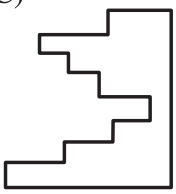
A) 29 B) 33 C) 35 D) 37 E) 38

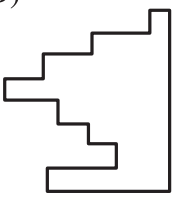
61.



A)


B)


C)


D)


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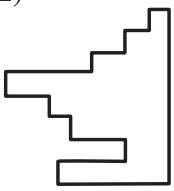

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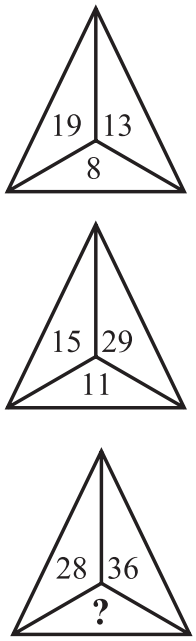
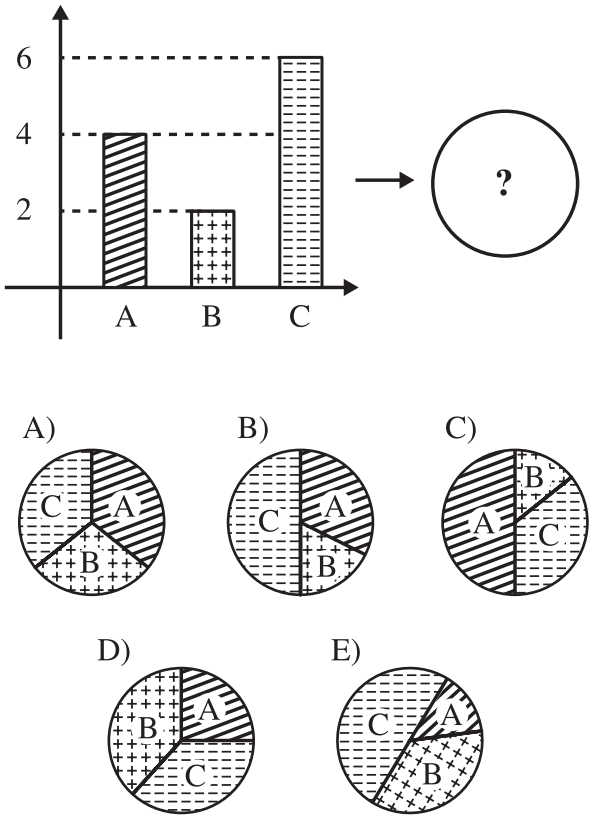
62.

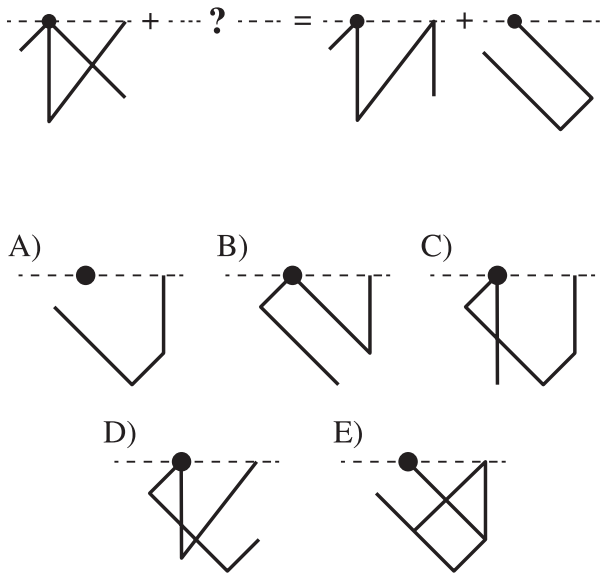


A) 13 B) 15 C) 16 D) 20 E) 24

63.



64.



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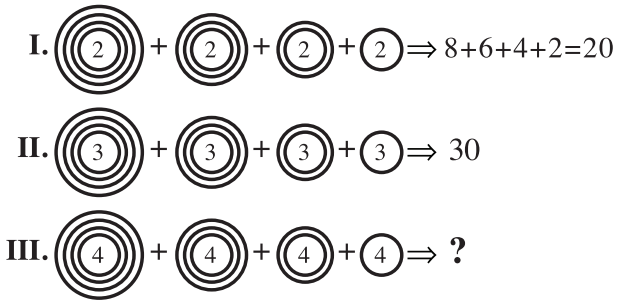
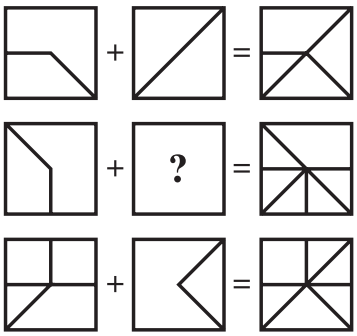
65.



A) 40 B) 44 C) 48 D) 52 E) 64

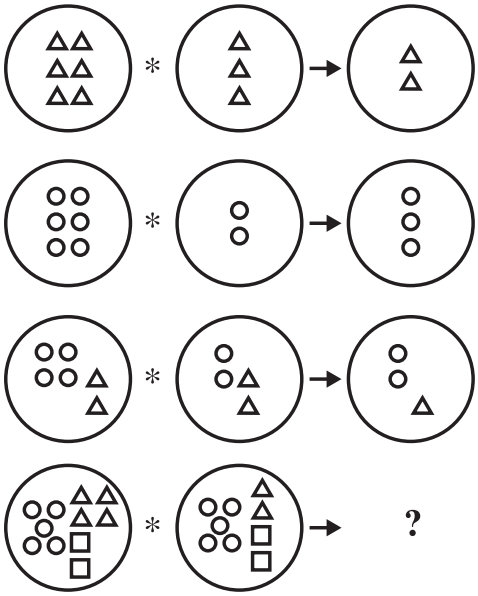
66.

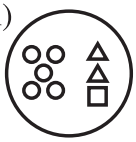
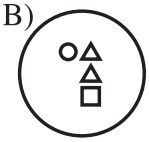
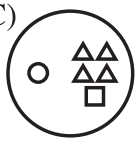


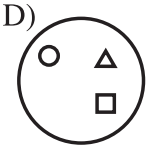
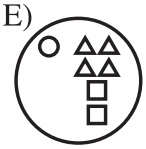
A) B) C)

D) E)

67.



A)  B)  C) 

D)  E) 

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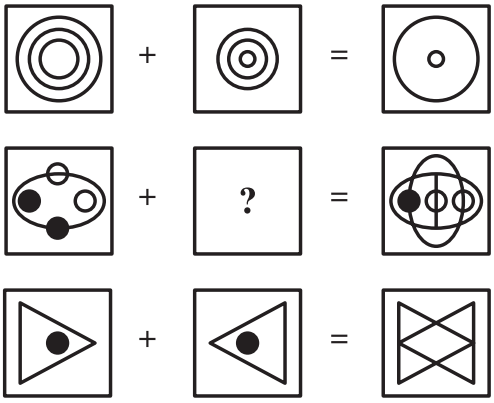
68.



A)

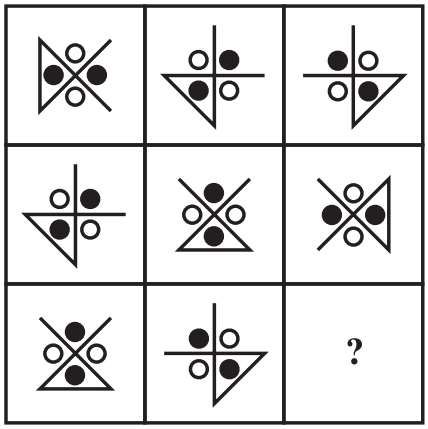
B)

C)

D)

E)

69.

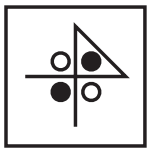


A)

B)

C)

D)

E)


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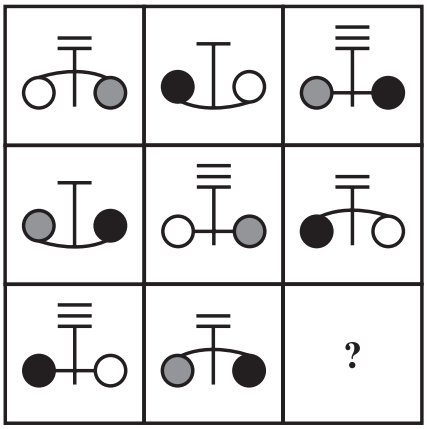
70.



A)

B)

C)

D)

E)

SINAV BİTTİ. CEVAPLARINIZI KONTROL EDİNİZ.
END OF THE EXAM. CHECK YOUR ANSWERS.
انتهى الامتحان. تأكدوا من إجاباتكم

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SINAVDA UYULACAK KURALLAR

1. Cep telefonu ile sınava 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 aygıt, hesap makinesi, hesap cetveli, pergel, açıölçer, cetvel vb. araçlarla da sınava girmek yasaktır. Bu araçlarla sınava girmiş adayların yabancı uyruk numaraları mutlaka Salon Sınav Tutanağına yazılacak, bu adayların sınavları geçersiz sayılacaktır.

2. Bu sınavda verilen cevaplama süresi 110 dakikadır.

3. Sınav evrakını teslim ederek salonu terk eden aday, her ne sebeple olursa olsun tekrar sınava alınmayacaktır.

4. Sınav sırasında herhangi bir nedenle dışarı çıkmak yasaktır. Sınavın başlamasını izleyen ilk 30 dakika ve sınav süresinin son 15 dakikası içinde, sınavlarını tamamlasalar bile hiçbir adayın salondan çıkmasına izin verilmeyecektir. Sınavın başlamasını izleyen ilk 30 dakikadan sonra hiçbir aday sınava alınmaz.

5. 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.

6. Sınav sırasında görevlilerin her türlü uyarılarına uymak zorundasınız. Gerektiğinde görevliler oturduğunuz yerleri de değiştirebilir. Sınavınızın geçerli sayılması, her şeyden önce sınav kurallarına uymanıza bağlıdır. Kurallara aykırı davranışta bulunur ve yapılacak uyarılara uymazsanız kimliğiniz tutanağa yazılacak ve sınavınız geçersiz sayılacaktır.

7. 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 kâğıdınızı başkaları tarafından görülmeyecek şekilde tutmanız sizin için son derece önemlidir.

8. Cevap kâğıdında ilgili alanları doldurmanız gerekmektedir. Cevap kâğıdına yazılacak her türlü yazıda ve yapılacak bütün işaretlemelerde kurşun kalem kullanılacaktır. Tükenmez kalem ve dolma kalem kesinlikle kullanılmayacaktır. Cevapların cevap kâğıdına işaretlenmiş olması gerekir. Soru kitapçığına işaretlenen cevaplar geçerli değildir.

9. Soru kitapçığınızı alır almaz, sayfaların eksik olup olmadığını, kitapçıkta basım hatalarının bulunup bulunmadığını kontrol ediniz. Soru kitapçığınızın sayfası eksik veya basımı hatalı ise değiştirilmesi için derhâl Salon Başkanına başvurunuz. Soru kitapçığında her sayfanın tepesinde basılı bulunan soru kitapçığı türünün, kitapçığın ön kapağında basılı soru kitapçığı türüyle aynı olup olmadığını kontrol ediniz. Farklı olması durumunda Salon Başkanından yeni bir soru kitapçığı isteyiniz. Soru kitapçığınızın türünün değişik olduğunu daha sonra fark ederseniz, size o zamana kadar cevaplama yaptığınız türden, hatasız bir soru kitapçığı verilmesi için Salon Başkanına başvurunuz. Cevap kâğıdınıza, size verilecek olan soru kitapçığının türünü işaretlemeyi unutmayınız. Bu işaret konmamışsa sınavınızın değerlendirilmesine olanak bulunmadığından sınavınız geçersiz sayılacaktır.

10. Cevaplamaya geçmeden önce size verilecek soru kitapçığının üzerinde ayrılan yere adınızı, soyadınızı, yabancı uyruklu numaranızı ve bu salonun Salon Numarasını yazınız. Sınav sonunda soru kitapçıkları toplanacak ve tek tek incelenecektir. Soru kitapçığının bir tek sayfası bile eksik çıkarsa sınavınız geçersiz sayılacaktır.

11. Soru kitapçığının sayfalarındaki boş yerleri müsvedde için kullanabilirsiniz.

12. Sınav sırasında, görevliler dahil, kimse sigara, pipo, puro vb. şeyleri içmeyecektir.

13. Soruları ve bu sorulara verdiğiniz cevapları ayrı bir kâğıda yazıp bu kâğıdı dışarı çıkarmanız kesinlikle yasaktır.

14. Sınav salonundan ayrılmadan önce, soru kitapçığınızı, cevap kâğıdınızı salon görevlilerine teslim etmeyi unutmayınız.

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RULES FOR THE CONDUCT OF THE EXAMINATION

1. No materials or electronic devices shall be brought into the room or used at an examination. Unauthorized materials include, but are not limited to: books, dictionaries, class notes, or aid sheets, weapons, explosive materials. Unauthorized electronic devices include, but are not limited to: cellular (mobile) telephones, laptop computers, calculators, MP3 players (such as an Ipod), Personal Digital Assistants ("PDA" such as a Palm Pilot or Blackberry), pagers, electronic dictionaries, Compact Disc Players, Mini Disc Players, Smart Watches and Smart Glasses. Anyone who violate these rules will be penalized by invalidating their exam results.

2. İÜYÖS Exam duration: 110 minutes.

3. No candidate who has submitted their question paper to those supervising the examination and have left the test room, for any reason whatsoever, will be allowed to re-enter the room.

4. Candidates will NOT be permitted to enter an examination room later than first thirteen (30) minutes after the commencement of the examination, nor to leave until at least half an hour after the examination has commenced. Candidates shall remain seated at their desks during the final fifteen (15) minutes of the examination. Students who arrive following the first 30 minutes after the examination has started will NOT be allowed in the test rooms.

5. Candidates shall not communicate with one another in any manner whatsoever during the examination. During the test, it is forbidden to ask questions of or talk to those supervising the exam. It is also against the rules of the examination for supervisors to converse or whisper to any candidates. 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 the supervisors; they also have the authority to assign seats to candidates. You must follow all instructions given to you. Otherwise, your name and application number will be taken, and your examination will be invalidated.

7. If, during the test anyone is found cheating, trying to cheat, or helping someone else to cheat, his/her name and application number will be recorded, and his/her answer sheet will not be considered for evaluation. Supervisors do not have to warn candidate(s) about their act of cheating. This is the candidates' responsibility. During the examination, it is extremely important that you take utmost attention for not letting your answer sheet be seen by another candidate.

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 and other information or marking answers. No type of pen may be used. Mark your answers only on the answer sheet. For each question mark one letter (A, B, C, D, or E) on your answer sheet. Answers marked only in the question books will be ignored.

9. Do not open the question book until you are told to do so. After required you should check throughout your question book and make sure that no pages are missing and all pages are readable. You should inform the supervisors immediately in such an event so that your test booklet can be changed. Check whether the letter printed at the top of each page in the question book is the same as the letter printed on the cover. If you realize such a disparity later in the exam, you should ask those supervisors in charge for a new question book that matches with the type you have been working on up to that time.
Remember to mark the type of the question book on your answer sheet; otherwise, your exam will be invalid, since it will not be possible to evaluate it.

10. Before you begin to answer the questions, you must write your name, surname, candidate number, and examination hall number on the cover of your question book. Following the examination, all question books are collected and inspected. If even one page of a question book is missing, the answer sheet will not be considered for evaluation.

11. You may use the blank spaces on the pages of the question book as scrap paper for writing or calculating purposes.

12. No one, including supervisors in charge, is allowed to smoke a cigarette, or any other tobacco products during the examination.

13. It is strictly forbidden to make a record of your answers on any paper and take it out.

14. At the end of the examination, hand in both the question book and the answer sheet. Question books and other material issued for the examination shall not be removed from the examination room.

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القواعد التي يجب إتباعها في الامتحان

1 **يمنع إدخال الهاتف الجوال إلى الامتحان منعا باتا**
يمنع اصطحاب الاجهزة التالية إلى الامتحان ؛ أجهزة اللاسلكي والتخابر والاتصالات وما شابهها والحاسوب الصغير و الساعات المخالفة للساعات العادية وكافة أنواع الأجهزة التي تحمل مواصفات الحواسيب والأسلحة والمعدات وأوراق المسودات والدفاتر والكتب والقواميس والقواميس الالكترونية والألة الحاسبة والمساطر الحسابية والفرجال والمنقلة والمسطرة وما شابهها. والطلاب المرشحون الذين يدخلون الإمتحان مصطحبين هذه الاجهزة ستكتب أرقامهم الأجنبية في مسودة ضبط القاعة الامتحانية وسيعتبر امتحانهم لاغيا

2 **مدة الاجابة عن الأسئلة في هذا الأمتحان هي 110 دقيقة**

3 الطالب المرشح الذي يسلم أوراقه ويغادر قاعة الامتحان لايمكن إعادته مرة أخرى إلى القاعة مهما كانت الأسباب

4 ممنوع الخروج من القاعة لأي سبب كان أثناء الامتحان. ولن يسمح لأي مرشح بالخروج في أول 30 دقيقة من الامتحان حتى ولو أتمه ،كما يُمنع الخروج آخر 15 دقيقة من الامتحان. ولن يتم ادخال أي طالب إلى القاعة بعد مرور 30 دقيقة على بدء الامتحان

5 ممنوع الكلام مع المراقبين أو سؤالهم طوال مدة الامتحان.ويُمنع كلام المراقبين مع الطلاب بصوت منخفض أو عن قرب. كما يُمنع الطلاب منعاً باتاً من طلب قلم أو ممحاة وما شابهها من الأشياء من بعضهم البعض

6 يجب الالتزام بكل توجيهات وتحذيرات المراقبين اثناء الامتحان. ويمكن للمراقبين تغيير أماكن الطلاب عند الضرورة. واعتبار امتحانكم مقبولاً يرتبط بإلتزامكم بقوانين الامتحان قبل كل شيء. وفي حال تصرفكم بشكل مخالف للتعليمات أو عدم الالتزام بالتوجيهات والتحذيرات سيتم كتابة رقم هويتكم في مسودة الضبط ويعتبر امتحانكم لاغياً

7 ستكتب في مسودة ضبط القاعة الامتحانية أرقام هويات الطلاب الذين يقومون بالغش أو يحاولون الغش أو الذين يغششون أو يساعدون على الغش، وسيتم اعتبار امتحان هؤلاء الطلاب لاغيًا. والمراقبون ليسوا ملزمين بتحذير الطلاب الذين يغشون أو يساعدون على الغش؛ فالمسؤولية في هذا تقع على عاتقكم. ومن المهم للطالب إمساكهُ بورقة الإجابة بشكلٍ لايراه الطلاب الاخرون

8 يجب عليكم ملء الفرغات الموجودة في ورقة الاجابة. ويجب أن يستخدم القلم الرصاص في كتابة أي شيء في ورقة الإجابة وفي جميع الاشارات.ويمنع استخدام القلم الجاف وقلم الحبر منعًا باتًا. ويجب تظليل الأجوبة في ورقة الإجابة؛ فالإجابات التي تُظلل على كتيب الاسئلة غير مقبولة

9 تأكدوا فور أخذكم كتيب الاسئلة من أن صفحاته كاملة ولا يوجد فيها خطأ طباعي. وإذا كانت صفحات كتيب الاسئلة ناقصة أو بها خطأ طباعي راجعوا فورا رئيس القاعة ، كما يجب عليكم التأكد من تطابق نوع كتيب الأسئلة الموجودة في قمة كل صفحة من صفحات كتيب الأسئلة مع نوع كتيب الأسئلة الموضح على الغلاف الأمامي للكتيب. وفي حال اختلافهما اطلبوا من رئيس القاعة كتيب أسئلة جديد. وإذا لاحظتم لاحقاً أن نوع الكتيب مختلف راجعوا رئيس القاعة؛ لإعطائكم كتيب أسئلة ليست فيه أخطاء من نفس النوع الذي أجبتم عليه فيما مضى، ولا تنسوا الإشارة على ورقة الإجابة إلى نوع كتيب الأسئلة الذي سيعطى لكم. وإذا لم توضع الاشارة هذه لن يتم تقييم امتحانكم وسيعتبر لاغياً

10 أكتبوا قبل البدء في الاجابة عن الأسئلة اسمكم وكنيتكم ورقمكم الأجنبي ورقم قاعة الامتحان في المكان المخصص لها في كتيب الأسئلة الذي سيعطى لكم. وسيم تجيمع كتيبات الأسئلة في نهاية الامتحان وتدقيقها واحداً فواحداً. واذا وجد نقص ولو صفحة واحدة من الكتيب سيعتبر امتحانكم لاغياً

11 يمكنكم استخدام الأماكن الفارغة في صفحات كتيب الأسئلة كمسودة

12 ممنوع تدخين السجائر أو السيجار أو الغليون وما شابهه أثناء الامتحان لكل الأشخاص بما فيهم مراقبوا الامتحان

13 يُمنع منعاً باتاً كتابة الأسئلة وأجوبتها هذه على ورقةٍ مستقلةٍ وإخراجها من قاعة الامتحان

14 لا تنسوا تسليم كتيب الأسئلة وورقة الإجابة إلى موظفي القاعة قبل مغادرتها

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