

## **Pinnacle Talent Quest Exam**



Class 11th NM

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## P-STAR 2024

**Pinnacle Talent Quest Exam** 

STAGE - 1 & STAGE - 2





Tablet











Online Study Material



Medals & Certificates







## **Test Date**

Stage-1 5th Nov & 3th Dec, 2023

Stage-2 10<sup>th</sup> December, 2023

## **Registration Details**

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PinnacleTechno School Opp. Kidzee School, Dr. DP Singla Road,Guru Nanak Colony, Sangrur, Punjab.

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## What Makes Pinnacle Unique?

- Best Faculty Team
- 2 Hi-Tech Classrooms
- 3 Customized Study material
- 4 Personal Attention
- 5 Unlimited Doubt Sessions
- 6 Best Testing Methodology



Recording Lab



Performance and Analysis Report



Revision Classes & Self Study Zones



Rich Library & Researched Study Modules



Online Testing Lob (CBT)



Extro Support to weaker students



Smart & AC



Objective +



Biometric Attendance

## **Classroom Program**

## 1 Comprehensive Classroom Lectures

All classes at Pinnacle are conducted by highly qualified and experienced faculty members, mostly IlTians. Each chapter is started at the grass root level and is dealt to an extent which is the requirement of competitive examinations, with an aim of enabling the students to develop a comprehensive view of the whole chapter with a thorough understanding.



Doubt

Clearance

"If you ask a question, you may apprear fool for some time, but if you don't, you'll remain a fool for whole life." System at Pinnacle encourages all students to ask their doubts and questions.

## Regular Tests Online and Offline

As JEE Mains and Advanced have gone completely online and NEET is in the pipeline, we have launched a dedicated online testing platform where students can practise over CBT (Computer Based Tests). The combination of online and offline testing modes based on latest JEE/NEET patterns ensure that students are at par with the recent changes. Students and check their test reports and performance analysis via a unique online login ID. Their results are also communicated to parents via SMS.





Addressing the **Board Exam** 

Pinnacle has a very distinct methodology for preparing the students for competitive examinations while in full synchronization with Board Exams as well. Board level tests are conducted alongside the regular JEE/NEET tests and the copies are graded at very meticulous level by teachers. Students receive methodological tips so as to





perform excellent in the board Exams as well.





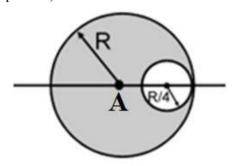


### Section - A Physics

This section contains **20 Multiple Choice Questions**. Each question has four options out of which **ONLY ONE** is correct.

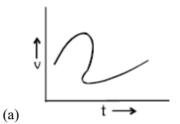
- 1. The centre of mass of a body:
  - (a) Lies always at the geometrical centre
  - (b) Lies always inside the body
  - (c) Lies always outside the body
  - (d) Lies within or outside the body
- 2. The centre of mass of the shaded portion of the disc is:

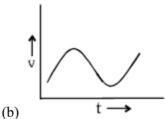
(The mass is uniformly distributed in the shaded portion)

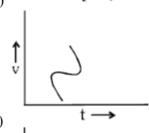


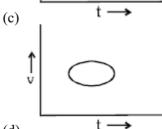
- $\frac{R}{20}$  to the left of A
- (a) R
- (b) 12 to the left of A
  - $\frac{R}{20}$  to the right of A
- (c)  $\frac{R}{12}$  to the right of A
- 3. A thin uniform wire is bent to form the two equal sides AB and AC of triangle ABC, where AB = AC = 5 cm. The third side BC, of length 6cm, is made from uniform wire of twice the density of the first. The distance of centre of mass from A is:
  - (a)  $\frac{34}{11}$  cm
  - (b) 34 cm
  - (c)  $\frac{34}{9}$  cm

- $\frac{11}{(d)} \frac{\pi}{45}$  cm
- 4. body starts from rest and is uniformlyaccelerated for 30 s. The distance travelled in the first 10 s is  $x_1$ , next 10 s is  $x_2$  and the last 10 s is  $x_3$ . Then  $x_1$ :  $x_2$ :  $x_3$  is the same as:
  - (a) 1:2:4
  - (b) 1:2:5
  - (c) 1:3:5
  - (d) 1:3:9
- 5. Which of the following velocity–time graphshows a realistic situation for a body in motion





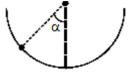




- 6. If a body loses half of its velocity on penetrating3 cm in a wooden block, then how much willit penetrate more before coming to rest?
  - (a) 1 cm
  - (b) 2 cm
  - (c) 3 cm
  - (d) 4 cm

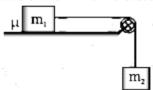
- 7. To cross the river in shortest distance, a swimmer should swim making angle θ with the upstream. What is the ratio of the time taken to swim across in the shortest time to that in swimming across over shortest distance? [Assume speed of swimmer in still water is greater than the speed of river flow]
  - (a)  $\cos \theta$
  - (b)  $\sin \theta$
  - (c)  $\tan \theta$
  - (d)  $\cot \theta$
- 8. A swimmer crosses the river along the line making an angle of 45° with the direction of flow. Velocity of the river water is 5 m/s. Swimmer takes 6 seconds to cross the river of width 60 m. The velocity of the swimmer with respect to water will be:
  - (a) 10 m/s
  - (b) 12 m/s
  - (c)  $5\sqrt{5}$  m/s
  - (d)  $10\sqrt{2} \text{ m/s}$
- 9. It is raining vertically downwards with a velocity of 3 km h<sup>-1</sup>. A man walks in the rain with a velocity of 4 kmh<sup>-1</sup>. The rain drops will fall on the man with a relative velocity of;
  - (a)  $1 \text{ km h}^{-1}$
  - (b)  $3 \text{ km h}^{-1}$
  - (c)  $4 \text{ km h}^{-1}$
  - (d)  $5 \text{ km h}^{-1}$
- 10. A cyclist is moving on a circular track of radius 80 m with a velocity of 72 km/hr. Minimum coefficient of friction between horizontal circular track and tyres of cycle is
  - (a) 0.5
  - (b) 0.4
  - (c) 0.6
  - (d) 0.2
- 11. A car of mass m is taking circular turn of radius r on a rough horizontal road with a speed v. In order that the car does not skid
  - $\frac{mv^2}{r}$  mg
  - (b)  $\frac{mv^2}{r}$  mg
  - (c)  $\frac{mv^2}{r}$  mg
  - (d)  $\frac{v}{r}$  mg

12. An insect crawls up hemispherical surface very slowly as shown in figure. The coefficient of friction between the insect and the surface is 1/3. If the line joining the centre of the hemispherical surface to the insect makes an angle with the vertical, the max. possible value of is given by



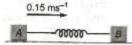
3

- (a) cot
- (b) sec 3
- (c) cosec 3
- (d) None
- 13. A block of mass  $m_1$  kg is resting on a rough horizontal plane, coefficient of kinetic friction between block and surface is  $\mu$ . If  $m_1$  is connected to another mass  $m_2$  with the help of string and pulley as shown in diagram, the common acceleration when released from rest will be:



- (a)  $\frac{m_2}{m_1 m_2}$  g
- (b)  $\frac{(m_1 \ m_2)}{m_1 \ m_2} g$
- (c)  $\frac{(m_1 \ m_2)}{m_1 \ m_2} g$
- (d)  $\frac{(m_2 m_1)}{m_1 m_2} g$
- 14. A body of mass 2 is projected at 20 / at an angle of  $60^{\circ}$  above the horizontal. Power on the block due to the gravitational force at its highest point is
  - (a) 200 W
  - (b)  $100\sqrt{3}$
  - (c) 50 W
  - (d) Zero
- 15. Two rectangular blocks and of masses 2kg and 3 kg respectively are connected by spring of spring constant 10.8 Nm<sup>-1</sup> and are placed on a frictionless horizontal surface. The block was given an initial velocity of 0.15 <sup>-1</sup> in the

direction shown in the figure. The maximum compression of the spring during the motion is



- (a) 0.01 m
- (b) 0.02 m
- (c) 0.05 m
- (d) 0.03 m
- 16. A uniform chain of length and mass is lying on a smooth table and one third of its length is hanging vertically down over the edge of the table. If is acceleration due to gravity, the work required to pull the hanging part on to the table is
  - (a)
  - (b) /3
  - (c) /9
  - (d) /18
- 17. Two springs have force constants  $_1$  and  $_2$ .

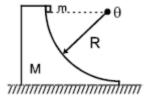
  There are extended through the same distance

  . If their elastic energies are  $_1$  and  $_2$ , then  $\frac{_1}{_2}$  is equal to
  - (a) <sub>1</sub>: <sub>2</sub>
  - (b) <sub>2</sub>: <sub>1</sub>
  - (c)  $\sqrt{\ }_1:\sqrt{\ }_2$
  - (d)  $\frac{2}{1}$ :  $\frac{2}{2}$
- 18. A particle is projected at  $60^{\circ}$  to the horizontal with a kinetic energy  $\,$ . The kinetic energy at the highest point is
  - (a) K
  - (b) Zero
  - (c)  $\frac{}{4}$
  - (d)  $\frac{1}{2}$
- 19. A stationary body explodes into two fragments of masses m<sub>1</sub> and m<sub>2</sub>. If momentum of one fragment is p, the energy of explosion is

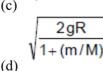
(a) 
$$\frac{p^2}{2(m_1 + m_2)}$$

(b) 
$$\frac{\frac{p^2}{2\sqrt{m_1m_2}}}{\frac{p^2(m_1+m_2)}{2m_1m_2}}$$
(c) 
$$\frac{p^2}{\frac{p^2}{2(m_1+m_2)}}$$

(d)
20. A small cube of mass 'm' slides down a circular path of radius 'R' cut into a large block of mass 'M'. 'M' rests on a table and both blocks move without friction. The blocks initially are at rest and 'm' starts from the top of the path. The velocity 'v' of the cube as it leaves the block is: (Initially the line joining m and the centre is horizontal)



(a) 
$$\sqrt{\frac{2gR}{M+m}}$$
(b) 
$$\sqrt{\frac{3gR}{1+(M/m)}}$$
(c) 
$$\sqrt{\frac{3gR}{1+(m/M)}}$$



#### Section - B Chemistry

This section contains 20 Multiple Choice Questions. Each question has four options out of which ONLY **ONE** is correct.

....(3)

21. NaBr, used to produce AgBr for use in photography can be self prepared as follows

Fe + Br<sub>2</sub> -> FeBr<sub>2</sub> ....(1)

....(2)

 $3FeBr_2 + Br_2 \rightarrow Fe_3Br_8$ 

Fe<sub>3</sub>Br<sub>8</sub>+4Na<sub>2</sub>CO<sub>3</sub>→8NaBr+4CO<sub>2</sub>+Fe<sub>3</sub>O<sub>4</sub>

If the yield of 2<sup>nd</sup> reactions 60% & 3<sup>rd</sup> reaction is 70% then mass of Fe required to produce  $2.06 \times$ 10<sup>3</sup> kg NaBr is

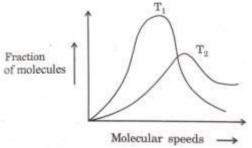
- (a)  $10^5 \text{ kg}$
- (b)  $10^7 \text{ kg}$
- (c)  $10^3 \text{ kg}$
- (d) None of these
- 22. The empirical formula of an organic compound containing carbon & hydrogen is CH<sub>2</sub>. The mass of 1 litre of this organic gas is exactly equal to that of 1 litre of N<sub>2</sub> at STP. So, molecular formula of this gas:-
  - (a)  $C_2H_4$
  - (b)  $C_3H_6$
  - (c)  $C_6H_{12}$
  - (d)  $C_4H_8$
- 23. 3 litre of mixture of propane (C<sub>3</sub>H<sub>8</sub>) & butane (C<sub>4</sub>H<sub>10</sub>) on complete combustion gives 10 litre CO<sub>2</sub> . Find the composition of mixture
  - (a) 2L propane, 1L butane
  - (b) 1L propane, 2L butane
  - (c) 1.5L propane, 1.5L butane
  - (d) 2.5L propane, 0.5L butan
- 24. Density of a 2.05M solution of acetic acid in water is 1.02 g/ml. The molality of the solution is:
  - (a)  $1.14 \text{ mol kg}^{-1}$
  - (b)  $3.28 \text{ mol kg}^{-1}$
  - (c)  $2.28 \text{ mol kg}^{-1}$
  - (d)  $0.44 \text{ mol kg}^{-1}$
- 25. 25.4 g of iodine and 14.2g of chlorine are made to react completely to yield a mixture of ICl and ICl<sub>3</sub>. Calculate the number of moles of ICl and ICl3 formed.
  - (a) 0.1 mole, 0.1 mole
  - (b) 0.1 mole, 0.2 mole
  - (c) 0.5 mole, 0.5 mole
  - (d) 0.2 mole, 0.2 mole

- 26. Among the elements from atomic number 1 to 36 the number of elements which have an unpaired electron in the s-subshell is
  - (a) 4
  - (b) 7
  - (c) 6
  - (d) 9
- 27. The number of d-electrons in  $Fe^{2+}$  (Z=26) is not equal to the number of electrons in which one of the following?
  - (a) d-electrons in Fe (Z=26)
  - (b) p-electrons in Ne (Z=10)
  - (c) s-electrons in Mg(Z=12)
  - (d) p-electrons in Cl (Z=17)
- 28. Among the elements Ca, Mg, P and Cl, the order of increasing atomic radii is
  - (a) Mg<Ca<Cl<P
  - (b) Cl<P<Mg<Ca
  - (c) P<Cl<Ca<Mg
  - (d) Ca < Mg < P < C1
- 29. The correct sequence which shows decreasing order of the ionic radii of the element is
  - (a)  $O^{2-} > F^{-} > Na^{+} > Mg^{2+} > A1^{3+}$
  - (b)  $Al^{3+} > Mg^{2+} > Na^+ > F^- > O^{2-}$
  - (c)  $Na^+ > Mg^{2+} > A1^{3+} > O^{2-} > F^-$
  - (d)  $Na^+ > F^- > Mg^{2+} > O^{2-} > A1^{3+}$
- 30. A bonded molecule  $MX_3$  is T shaped. The number of non – bonding pairs of electrons is
  - (a) 0
  - (b) 2
  - (c) 1
  - (d) Can be predicted only if atomic number of M is known.
- 31. A molecule XY<sub>2</sub> contains two , two bonds and one lone pair of electron in the valence shell of X. The arrangement of lone pair as well as bond pairs is
  - (a) Square pyramidal
  - (b) Linear
  - (c) Trigonal planar
  - (d) Unpredictable
- 32. Both NH<sub>3</sub> and H<sub>2</sub>O molecules possess distorted tetrahedral geometries but the bond angle in water is less than that of ammonia. This is because

- (a) NH<sub>3</sub> contains only one lone pair on N atom to repel the bond pairs whereas in H<sub>2</sub>O, there are two lone pairs on O – atom to repel the bond pairs.
- (b) NH<sub>3</sub> contains there bond pairs whereas H<sub>2</sub>O contains only two bond pairs
- (c)  $NH_3$  is pyramidal whereas  $H_2O$  has V shape.
- (d) N in NH<sub>3</sub> is less electronegative than O in H<sub>2</sub>O
- 33. Which one of the following does not match with respect to the shape of the molecule?
  - (a) NH<sub>3</sub> Trigonal pyramidal
  - (b) SF<sub>4</sub> Tetrahedral
  - (c)  $H_2S Bent$
  - (d) XeF<sub>4</sub> Square planar
- 34. Which is the following is the correct order of bond
  - (a)  $N_2 > N_2^+ > N_2^- > N_2^{2-}$
  - (b)  $N_2 > N_2^+ = N_2^- > N_2^{2-}$
  - (c)  $N_2 > N_2^{2-} > N_2^{-} > N_2^{+}$
  - (d)  $N_2 > N_2^{2-} = N_2 > N_2$
- 35. For species H<sub>2</sub>, H<sub>2</sub>, He<sub>2</sub>, He<sub>2</sub>, which of the following statement is correct: -
  - (a)  $He_2^+$  is more stable than  $H_2^+$
  - (b) Bond dissociation energy of  $H_2^+$  is more than bond dissociation energy of He<sub>2</sub><sup>+</sup>
  - (c) Since bond orders of  $He_2^+$  and  $H_2^+$  are equal hence both will have equal bond dissociation energy
  - (d) Bond length of H<sub>2</sub> is less than bond length H<sub>2</sub>
- 36. When gases are heated from 20°C to 40°C at constant pressure, then the volume:
  - (a) Increase by the same magnitude
  - (b) Become double
  - (c) Increase in the ratio of their molecular masses
  - (d) Increase but to different extent
- 37. Oxygen gas is collected by downward displacement of water in a jar. The level of water inside the jar is adjusted to the height of water outside the jar. When the adjustment is made, the pressure exerted by the oxygen is:

- (a) Equal to the atmospheric pressure
- (b) Equal to the vapour pressure of oxygen at that temperature
- (c) Equal to atmospheric pressure plus aqueous tension at that temperature
- (d) Equal to atmospheric pressure minus aqueous tension at that temperature
- 38. An open vessel containing air is heated from 300 K to 400 K. The fraction of air originally present which goes out of it is:

  - (d)  $\frac{1}{8}$
- 39. 0.44 g of a colourless oxide of nitrogen occupies 224 mL, at STP. The compound is
  - (a)  $N_2O$
  - (b) NO
  - (c)  $N_2O_2$
  - (d) NO<sub>2</sub>
- 40. Following graph, also called the Maxwell Boltzmann distribution curve is given



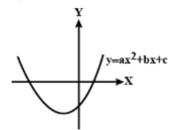
Then, which statement is/are correct wrt above graph

- (a)  $T_2 > T_1$
- (b) The fraction of molecules with very low or very high speeds is small.
- (c) At higher temperature, the most probable speed increases but the fraction of molecule having most probable speed decreases.
- (d) All are correct

#### Section - C **Mathematics**

This section contains 20 Multiple Choice Questions. Each question has four options out of which ONLY ONE is correct.

41. Let  $f(x) = ax^2 + bx + c$ . Consider the following diagram. Then the incorrect statement is: -



- (a) c < 0
- (b) b > 0
- (c) a+b-c>0
- (d) None
- 42. If the equation  $x^3+ax^2+bx-4=0$  has two roots equal to 2, then the ordered pair (a, b) is
  - (a) (-4.8)
  - (b) (5,-8)
  - (c) (1,1)
  - (d) (2,2)
- 43. If  $f(x) = ax^2 + bx + c$ ,  $g(x) = -ax^2 + bx + c$  where ac  $\neq 0$ , then f(x)g(x) = 0 has:
  - (a) at least three real roots
  - (b) no real solution
  - (c) at least two real roots
  - (d) two real roots and two imaginary roots
- 44. If the equation  $\frac{1}{2} + \frac{1}{2} = 1$  has roots equal in magnitude but opposite in sign, then the value of a +b is:
  - (a) -1
  - (b) 0
  - (c) 1
  - (d) None of these
- 45. If the expression  $x^2+2(a+b+c)x+3(bc+ab+ac)$ is a perfect square, then
  - (a) a=b=c
  - (b) a = -b = c
  - (c) a = -b = -c
  - (d) None of these
- 46. If I (r) = r (r<sup>2</sup> 1), then  $\sum_{r=2}^{\infty} \frac{1}{r^{2}}$  is equal to:

(a) 
$$\frac{1}{4} (1 - \frac{1}{(1+1)})$$

(b) 
$$\frac{1}{4} (2 - \frac{1}{(+1)})$$

(c) 
$$\frac{1}{4} (1 - \frac{2}{(1+1)})$$

- (d)  $\frac{1}{4} (2 + \frac{1}{(1+1)})$
- 47.  $\sum_{i=1}^{n} (-i)^{i}$  = 1 ( + 1) is equal to:

  - (a)  $\frac{(^{2}-1)}{6}$ (b)  $\frac{(+1)(+2)}{6}$ (c)  $\frac{(^{2}-1)}{2}$ (d)  $\frac{(+1)(+2)}{2}$
- 48. The sum of n terms of the series

$$1^2+2.2^2+3^2+2.4^2+5^2+2.6^2+...$$

Is  $\frac{n^2(n+1)}{2}$  when n is odd, when n is even, sum

of n terms will be

- (a)  $\frac{n(n+1)^2}{2}$
- (b)  $\frac{n(n^2+1)}{2}$
- (c)  $2(n \ 1)^2 \cdot (2n \ 1)$
- (d) None of these
- 49. If  $\frac{\tan}{1} = \frac{\tan}{2} = \frac{\tan}{3}$ : (\neq 0) and x + y  $+z = \pi$  then:
- (a) Maximum value of tanx + tany + tanz is 6
- (b) Maximum value of tanx+ tany + tanz is 8
- (c)  $tanx + tany + tanz = 0 \forall x, y, z \in R$
- (d) none of these
- 50. The ratio of greatest value of  $2 \cos x + \sin^2 x$  to its least value, is
  - (a) 13:4
  - (b) 1:4
  - (c) 9:4
  - (d) None of these
- 51. If  $< 2 < \frac{3}{2}$ , then  $\sqrt{2 + \sqrt{2 + 2\cos 4}}$  equals
  - to
  - (a)  $-2\cos$
  - (b)  $-2\sin$
  - (c) 2cos

- (d) 2sin
- 52. If  $\cos 6\theta + \cos 4\theta + \cos 2\theta + 1 = 0$  for  $0 \le \theta \le \pi$ then  $\theta =$ 
  - (a)  $\frac{5}{7}$ ,  $\frac{5}{7}$ ,

  - (b)  $\frac{7}{2}$ ,  $\frac{7}{4}$ ,  $\frac{3}{4}$ ,  $\frac{5}{6}$ ,  $\frac{5}{6}$ (c)  $\frac{3}{8}$ ,  $\frac{3}{8}$ ,  $\frac{5}{8}$ ,  $\frac{7}{8}$ ,  $\frac{2}{3}$
  - (d)  $\frac{}{6}$ ,  $\frac{}{4}$ ,  $\frac{}{3}$ ,  $\frac{}{2}$
- 53. The coefficient of  $x^4$  in the expansion of (1 + x + $x^2 + x^3$ )11 is
  - (a) 900
  - (b) 909
  - (c) 990
  - (d) 999
- 54. The coefficient of  $x_n$  in the polynomial

$$x ^{n} C_{0} x 3.^{n} C_{1} x 5.^{n} C_{2} x 7.^{n} C_{3} .... (x (2n 1)^{n} C_{n})$$

is

- (a)  $n.2^{n-1}$
- (b)  $n.2^n$
- (c)  $n.2^{n+1}$
- (d)  $(n+1)2^n$
- 55. If a = 16, b = 24 and c = 20, then the value of  $\cos$

$$\frac{B}{2}$$
 is

- (a)  $\frac{3}{4}$
- (b)  $\frac{1}{4}$
- (c)  $\frac{1}{2}$
- (d)  $\frac{1}{2}$
- 56. If  $\frac{a}{\cos A} = \frac{b}{\cos B} = \frac{c}{\cos C}$ , then  $\triangle ABC$  is
  - (a) Isosceles

- (b) Equilateral
- (c) Right angled
- (d) Scalene
- 57. If the point (a, a) falls between the lines |x + y| = 2then
  - (a) |a| = 2
  - (b) |a| = 1
  - (c) |a| < 1
  - (d)  $|a| \frac{1}{2}$
- 58. The point P(2, 1) is shifted by  $3\sqrt{2}$  parallel to the line x + y = 1, in the direction of increasing ordinate, to reach Q. The image of Q by the line x + y = 1 is
  - (a) (5, -2)
  - (b) (-1, 4)
  - (c) (3, -4)
  - (d) (-3, 2)
- 59.  $C_1$  is a circle of radius 1 touching the x axis and the y - axis.  $C_2$  is another circle of radius > 1 and touching the axes as well as the circle C<sub>1</sub>. Then the radius of C2 is
  - (a)  $3 2\sqrt{2}$
  - (b)  $3 + 2\sqrt{2}$
  - (c)  $3 + 2\sqrt{3}$
  - (d) None of these
- 60. A ray of light coming from the point (1, 2) is reflected at point A on the x – axis and then passes through the point (5, 3). The coordinates of the point A are
  - (a)  $\frac{13}{5}$ , 0
  - (b)  $\frac{5}{13}$ , 0
  - (c) (-7,0)
  - (d) None of these

#### SPACE FOR ROUGH WORK

Answer Key					
1	d	21	С	41	С
2	a	22	a	42	а
3	a	23	a	43	d
4	С	24	С	44	b
5	b	25	a	45	a
6	a	26	С	46	С
7	b	27	d	47	b
8	С	28	b	48	а
9	d	29	а	49	а
10	a	30	b	50	а
11	b	31	С	51	d
12	a	32	a	52	b
13	d	33	b	53	С
14	d	34	b	54	d
15	С	35	b	55	a
16	d	36	b	56	b
17	а	37	d	57	С
18	С	38	b	58	d
19	С	39	а	59	b
20	d	40	d	60	a