

ISAT International Student Admissions Test Sample Questions





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Introduction

The following units are included to give candidates an idea of the style and type of ISAT questions.

These questions are similar to questions which may appear on your ISAT exam.

This document provides a "screenshot view" of the computer-based test to familiarise candidates with what they may expect to see on the computer screen when taking ISAT. (You may need to adjust the viewing zoom to better suit your computer screen).

This document is NOT interactive like the real test, so the "Previous" and "Next" buttons at the bottom of the screen do not work. Navigate the pages by using the page arrows on the top toolbar.

A real ISAT exam contains 100 questions and candidates have 3 hours in which to complete it. This document provides a sample of 22 questions only.

Test Taker Time Remaining: Question 1 of 100 International Student Admissions Test 02:57:34 UNIT 1 Questions 1 - 4 Our solar system is composed of nine* planets that travel around a star we call the Sun. The diagram indicates the relative size of the planets and their order from the Sun. The table provides further information about the planets **1.** Which one of the following statements is supported by (based on information known around the year 2000). the data? • An orbit is the path a planet takes as it travels completely around the Sun. • Day length increases as distance from the sun • The length of a year for a planet is the time it takes for the planet to travel decreases. once around the Sun. • The length of a day for a planet is the time it takes to spin around once on • Orbital speed increases as year length decreases. its axis. • Diameter increases as orbital speed increases. • Year length decreases as diameter increases. Mean distance Number Time to orbit Length Average Diameter from the Sun of orbital speed the Sun of day (×1,000,000 km) (Earth years) Planet (km) moons (km/s) (hours) 58 4,880 0 48.0 0.24 1416 Mercury Venus 108 12,100 0 35.0 0.62 5832 Earth 150 12,760 1 30.0 1.00 24 228 6,800 2 24.0 1.88 24.6 Mars 778 143,800 16 13.0 11.86 9.84 Jupiter 18 Saturn 1,427 120,000 10.0 29.4610.23 15 Uranus 2,870 52,300 6.8 84.01 17.24 8 5.4 18.4 Neptune 4,497 49,500 164.79 5,900 3,000 1 4.7 247.70 153.4 Pluto

*recently Pluto has been downgraded to a minor planet

PREVIOUS

Questio	n 2 of 100)	International Student Ac				t la nt Ac	ker dmissions Test	t	Time Remai 02:5	ning: 57:34
UNIT 1 (Questions 1	- 4									
 Our solar system is composed of nine* planets that travel around a star we call the Sun. The diagram indicates the relative size of the planets and their order from the Sun. The table provides further information about the planets (based on information known around the year 2000). An orbit is the path a planet takes as it travels completely around the Sun. The length of a year for a planet is the time it takes for the planet to travel once around the Sun. The length of a day for a planet is the time it takes to spin around once on its axis. 						ve eir nets un. vel on	 Which of the for the data? Planets further have shorter data? Planets closer shorter days. Planets with lo the sun. Day length is a distance from 	ollowing stateme r from the sun tra lays. to the sun travel onger days travel unrelated to avera the sun.	nts is best supporter vel faster and there faster and therefore slower and are clos age orbital speed an	d by fore have ser to	
Planet	Mean distance from the Sun (× 1,000,000 km)	Diameter (km)	Number of moons	Average orbital speed (km/s)	Time to orbit the Sun (Earth years)	Length of day (hours)					
Mercury	58	4,880	0	48.0	0.24	1416					
Venus	108	12,100	0	35.0	0.62	5832					
Earth	150	12,760	1	30.0	1.00	24					
Mars	228	6,800	2	24.0	1.88	24.6					
Jupiter	778	143,800	16	13.0	11.86	9.84					
Saturn	1,427	120,000	18	10.0	29.46	10.23					
Uranus	2,870	52,300	15	6.8	84.01	17.24					
Neptune	4,497	49,500	8	5.4	164.79	18.4					
Pluto	5,900	3,000	1	4.7	247.70	153.4					
*recently	Pluto has bee	n downg	raded to	a minor pla	inet						
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Question 3 of 100 International Student Action						ker Imissions Tes	t	Time Remai 02:5	ning: 57:34		
UNIT 1	Questions 1	- 4									
Our solar call the S order from (based on • An orbit • The leng once arc • The leng its axis.	 Our solar system is composed of nine* planets that travel around a star we call the Sun. The diagram indicates the relative size of the planets and their order from the Sun. The table provides further information about the planets (based on information known around the year 2000). An orbit is the path a planet takes as it travels completely around the Sun. The length of a year for a planet is the time it takes for the planet to travel once around the Sun. The length of a day for a planet is the time it takes to spin around once on its axis. 						 3. Which of the number of N 4 8 12 16 	following is the bes eptune days that eq	st estimate of the ual ten Earth day	s?	
Planet	Mean distance from the Sun (× 1,000,000 km)	Diameter (km)	Number of moons	Average orbital speed (km/s)	Time to orbit the Sun (Earth years)	Length of day (hours)					
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Piuto	5,900	3,000	1	4.7	247.70	153.4					
*recently	/ Pluto has bee	en downg	raded to	a minor pla	anet						
P	REVIOUS			REVI	EW			MARK		NEXT	

Question 4 of 100 International Student A							ker dmissions Test		Time Remai 02:5	ning: 57:34	
UNIT 1	Questions 1	- 4									
Our solar call the S order from (based on • An orbi • The leng once arc • The leng its axis.	 Our solar system is composed of nine* planets that travel around a star we call the Sun. The diagram indicates the relative size of the planets and their order from the Sun. The table provides further information about the planets (based on information known around the year 2000). An orbit is the path a planet takes as it travels completely around the Sun. The length of a year for a planet is the time it takes for the planet to travel once around the Sun. The length of a day for a planet is the time it takes to spin around once on its axis. 						 4. Which of the f number of Sat 1600 800 400 100 	ollowing is the bes turn days in an Ear	st estimate of the th year?		
Planet	Mean distance from the Sun (× 1,000,000 km)	Diameter (km)	Number of moons	Average orbital speed (km/s)	Time to orbit the Sun (Earth years)	Length of day (hours)					
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*recently	y Pluto has bee	en downg	raded to	a minor pla	anet			L.			
P	REVIOUS			REVI	EW			MARK		NEXT	

Question 5 of 100

Test Taker International Student Admissions Test

UNIT 2 Questions 5 - 7

When fighting bushfires, a major problem for firefighters is dealing with the heat. Heat enters, leaves or is produced in a firefighter's body by the following processes:

- radiation heat from the fire and the sun radiate to the firefighter's body.
- conduction/convection body heat is carried away by the surrounding air.
- metabolism heat is produced in the firefighter's body.
- evaporation of sweat heat is removed from the firefighter's body as sweat evaporates from skin and clothing.

In a study of heat balance in firefighters, two groups of firefighters built a firebreak - a hard physical task. One group did so next to a fire. The other group did exactly the same work under the same conditions except that no fire was burning nearby. The table gives the average results for the firefighters in the two groups.

Process	Amount of heat gained or lost per minute by the body				
1100055	fire nearby	no fire nearby			
Radiation	gain of 260 joule	gain of 51 joule			
Conduction / convection	loss of 60 joule	loss of 80 joule			
Metabolism	gain of 488 joule	gain of 561 joule			
Evaporation of sweat	loss of 688 joule	?			

The amount of sweat that evaporates is the amount that is required to keep the body's temperature constant (i.e. the sum of gains and losses will be zero). Note that no value is given for the evaporation of sweat when building a firebreak with no fire nearby.

- Although the table provides average results, assume that these apply to any individual firefighter.
- Although some of the processes can transfer heat to or from a firefighter, this unit and the table refer to net gains or losses of heat by each process. Use the figures given in the table when answering the questions.

- 5. When building a firebreak, the body of a firefighter
- loses heat by radiation and gains heat by conduction/convection.
- gains heat by radiation and loses heat by conduction/convection.
- loses heat both by radiation and conduction/ convection.
- gains heat both by radiation and conduction/ convection.



Question 6 of 100	I	ssions Test	Time Remaining 02:57:34	
UNIT 2 Questions 5 - ' When fighting bushfires, a m Heat enters, leaves or is prod radiation — heat from the fi conduction/convection — b metabolism — heat is produ- evaporation of sweat — hea evaporates from skin and cl	7 ajor problem for firefiguced in a firefighter's ire and the sun radiate ody heat is carried awa uced in the firefighter's at is removed from the lothing.	ghters is dealing with the heat. body by the following processes: to the firefighter's body. ay by the surrounding air. s body. firefighter's body as sweat	 6. The heat lost by evbody of a firefight building a firebrea 532 joule. 	vaporation of sweat from the ter in one minute while ak without a fire nearby is
a hard physical task. One gro	up did so next to a fire	e. The other group did exactly the	o 590 joule.	
a hard physical task. One gro ame work under the same co able gives the average result	up did so next to a fire onditions except that no s for the firefighters in Amount of heat gat	e. The other group did exactly the o fire was burning nearby. The n the two groups. ined or lost per minute by the body	 6 590 joule. 6 612 joule. 6 688 joule. 	
h a study of heat balance in f a hard physical task. One gro same work under the same co able gives the average result Process	up did so next to a fire onditions except that no s for the firefighters in Amount of heat gai fire nearby	e. The other group did exactly the o fire was burning nearby. The n the two groups. ined or lost per minute by the body no fire nearby	 6 590 joule. 6 612 joule. 6 688 joule. 	
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Question 7 of 100

Test Taker International Student Admissions Test

UNIT 2 Questions 5 - 7

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- Although some of the processes can transfer heat to or from a firefighter, this unit and the table refer to net gains or losses of heat by each process. Use the figures given in the table when answering the questions.

- **7.** Which one of the following increases when a firefighter moves from an area where there is no fire nearby to an area where there is a fire nearby?
- the amount of heat produced per minute by metabolism
- the amount of heat lost per minute by conduction/convection
- the amount of heat lost per minute by the evaporation of sweat
- o none of the above



Question 8 of 100

Test Taker International Student Admissions Test

UNIT 3 Questions 8 - 11

Figures 1 and 2 provide some information about a model of the relationship between leg length (L), stride length (S) and speed (v) of various animals. For any individual, stride length and speed can vary, but leg length is fixed.

Figure 2 relates *Relative Stride Length* $\left(\frac{s}{L}\right)$ to a parameter known as the *Froude Number* $\left(v/\sqrt{gL}\right)$.

The line of best fit shown was obtained from individuals, travelling at various speeds, of a number of four-legged and two-legged animal species. Also shown are three points based on values obtained from individuals of three species.

- L and S are in metres (m)
- v is in metres per second (m s⁻¹)
- $\,{}^{\circ}\,g$ is acceleration due to gravity on Earth and is approximately equal to 10 m s^-2



- **8.** If an animal has a Relative Stride Length of more than 2, it is considered to be running. Which of the individual animals shown in Figure 2 was running?
- o the elephant only

• the rhinoceros only

o the camel and the rhinoceros

• the elephant and the rhinoceros



Question 9 of 100

Test Taker International Student Admissions Test

UNIT 3 Questions 8 - 11

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- L and S are in metres (m)
- v is in metres per second (m s⁻¹)
- \cdot g is acceleration due to gravity on Earth and is approximately equal to 10 m s⁻²



9. For the line of best fit, the ratio of Relative Stride Length to Froude Number is approximately

- o 1:1. o 1:2.
- 2:1.

o 4:1.



Question 10 of 100

Test Taker International Student Admissions Test

UNIT 3 Questions 8 - 11

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The line of best fit shown was obtained from individuals, travelling at various speeds, of a number of four-legged and two-legged animal species. Also shown are three points based on values obtained from individuals of three species.

- L and S are in metres (m)
- v is in metres per second (m s⁻¹)
- $\,{}^{\circ}\,g$ is acceleration due to gravity on Earth and is approximately equal to 10 m s^-2



10. Based just on Figure 2, which of the individual animals shown had the greatest leg length?

o elephant

o camel

o rhinoceros

[•] There is insufficient information provided to answer this question.

Question 11 of 100

Test Taker International Student Admissions Test

UNIT 3 Questions 8 - 11

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- L and S are in metres (m)
- v is in metres per second (m s⁻¹)
- $\,{}^{\circ}\,g$ is acceleration due to gravity on Earth and is approximately equal to 10 m s^-2



11. According to the line of best fit, two animals with the same Froude Number must have approximately the same value for

O S/L.

 \circ *v* only.

○ L only.

• both v and L.



UNIT 4 Questions 12 - 14

The following passage describes the experiences of a man who has had surgery that has given him vision after a lifetime of blindness.

One man when shown an orange a week after beginning to see, said that it was gold. When asked, 'What shape is it?' he said, 'Let me touch it and I will tell you!' After doing so, he said that it was an orange. Then he looked long at it and said, 'Yes, I can see that it is round.' Shown next a blue square, he said it was blue and round. A triangle he also described as round. When the angles were pointed out to him he said, 'Ah. Yes, I understand now, one can see how they feel.' For many weeks and months after beginning to see, the person can only with great difficulty distinguish between the simplest shapes, such as a triangle and a square. If you ask him how he does it, he may say, 'Of course if I look carefully I see that there are three sharp turns at the edge of one patch of light, and four on the other.' But he may add peevishly¹, 'What on earth do you mean by saying that it would be useful to know this? The difference is only very slight and it takes me a long time to work it out. I can do much better with my fingers.' And if you show him the two shapes the next day he will be quite unable to say which is a triangle and a square.

¹ *impatiently or irritably*

12. One week after beginning to see, the man

- related shapes directly to visual images.
- formed visual impressions of shapes indirectly.
- recognised shapes by associating them with colour.
- no longer relied on his sense of touch to recognise shapes.



5

UNIT 4 Questions 12 - 14

The following passage describes the experiences of a man who has had surgery that has given him vision after a lifetime of blindness.

One man when shown an orange a week after beginning to see, said that it was gold. When asked, 'What shape is it?' he said, 'Let me touch it and I will tell you!' After doing so, he said that it was an orange. Then he looked long at it and said, 'Yes, I can see that it is round.' Shown next a blue square, he said it was blue and round. A triangle he also described as round. When the angles were pointed out to him he said, 'Ah. Yes, I understand now, one can see how they feel.' For many weeks and months after beginning to see, the person can only with great difficulty distinguish between the simplest shapes, such as a triangle and a square. If you ask him how he does it, he may say, 'Of course if I look carefully I see that there are three sharp turns at the edge of one patch of light, and four on the other.' But he may add peevishly¹, 'What on earth do you mean by saying that it would be useful to know this? The difference is only very slight and it takes me a long time to work it out. I can do much better with my fingers.' And if you show him the two shapes the next day he will be quite unable to say which is a triangle and a square.

¹ *impatiently or irritably*

- 13. The man's mistake about the square (lines 6–7) suggests that
- his vision was still impaired.
- he could not make full use of visual cues.
- the idea of shape was meaningless for him.
- colour made shape perception more difficult.



5

UNIT 4 Questions 12 - 14

The following passage describes the experiences of a man who has had surgery that has given him vision after a lifetime of blindness.

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¹ *impatiently or irritably*

14. The passage suggests that shape perception is generally dependent on

• experience.

- clear vision.
- o natural ability.
- colour perception.



5

Question 15 of 100

Test Taker International Student Admissions Test Time Remaining: 02:57:34

UNIT 5 Question 15

Consider the following cartoon:



- **15.** The cartoon
- is a celebration of work.
- questions the purpose of work.
- \circ is a neutral explanation of work.
- suggests that work needs no justification.



Question 16 of 100

UNIT 6 Questions 16 and 17

In the 18th century it was discovered that Sanskrit, an ancient language once spoken in India, is related to a range of European languages. The discovery was made by a British scholar working in India, Sir William Jones. The passage below discusses Jones's discovery.

Jones noticed many striking similarities between Sanskrit and European languages — the Sanskrit word for birch, for instance, was *bhurja*. The Sanskrit for king, *raja*, is close to the Latin *rex*. The Sanskrit for ten, *dasa*, is reminiscent of the Latin *decem*. And so on. All of these clearly suggested a common historical parentage. Jones looked at other languages and discovered further similarities. In a landmark speech to the Asiatic Society in Calcutta he proposed that many of the classical languages — among them Sanskrit, Greek, Latin, Gothic, Celtic, and Persian — must spring from the same source. This was a bold assertion since nothing in recorded history would encourage such a conclusion, and it excited great interest among scholars all over Europe. The next century saw a feverish effort to track down the parent language, Indo-European, as it was soon called.

- **16.** The passage implies that
- Latin developed from Sanskrit.
- Sanskrit developed from Latin.
- Latin and Sanskrit both developed from a third language.
- the resemblances between Latin and Sanskrit are superficial.



5

Question 17 of 100

UNIT 6 Questions 16 and 17

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17. Jones's fellow scholars regarded his discovery as

- a lucky guess.
- original and highly important.
- interesting but of little real importance.
- dangerous, since it challenged contemporary beliefs.



5

Question 18 of 100

Test Taker International Student Admissions Test

UNIT 7 Question 18



- **18.** The image suggests that we
- o cannot escape conformity.
- can effectively disguise ourselves.
- appear to be anonymous but are unique.
- appear to be unique but are anonymous.





UNIT 8 Questions 19 - 22

The following statements are from a debate for and against the topic that

animals should not be killed for sport.

For each statement, choose the alternative that most appropriately describes the relationship of the statement to the topic of the debate.

19. Consider the statement: 'Animals feel pain just like humans do'.

- The statement is most probably part of the debate for the topic.
- The statement is most probably part of the debate against the topic.
- The statement could be part of the debate for or against the topic.
- The statement is not relevant to either the debate for or against the topic.



UNIT 8 Questions 19 - 22

The following statements are from a debate for and against the topic that

animals should not be killed for sport.

For each statement, choose the alternative that most appropriately describes the relationship of the statement to the topic of the debate.

20. Consider the statement: 'Hunting is a natural process in humans'.

- The statement is most probably part of the debate for the topic.
- The statement is most probably part of the debate against the topic.
- The statement could be part of the debate for or against the topic.
- The statement is not relevant to either the debate for or against the topic.



UNIT 8 Questions 19 - 22

The following statements are from a debate for and against the topic that

animals should not be killed for sport.

For each statement, choose the alternative that most appropriately describes the relationship of the statement to the topic of the debate.

21. Consider the statement: 'The real issue is whether there is any difference between humans and animals'.

- The statement is most probably part of the debate for the topic.
- The statement is most probably part of the debate against the topic.
- The statement could be part of the debate for or against the topic.
- The statement is not relevant to either the debate for or against the topic.



UNIT 8 Questions 19 - 22

The following statements are from a debate for and against the topic that

animals should not be killed for sport.

For each statement, choose the alternative that most appropriately describes the relationship of the statement to the topic of the debate.

22. Consider the statement: 'Some animals are killed to develop medicine for humans'.

- The statement is most probably part of the debate for the topic.
- The statement is most probably part of the debate against the topic.
- The statement could be part of the debate for or against the topic.
- The statement is not relevant to either the debate for or against the topic.



Answers to sample items

Unit 1

- 1. Orbital speed increases as year length decreases.
- 2. Day length is unrelated to average orbital speed and distance from the sun.
- **3.** 12
- **4.** 800

Unit 2

- 5. gains heat by radiation and loses heat by conduction/convection
- **6.** 532 joule
- 7. the amount of heat lost per minute by the evaporation of sweat

Unit 3

- 8. the elephant and the rhinoceros
- **9.** 2:1
- 10. There is insufficient information provided to answer this question.

11. S/L

Unit 4

- 12. formed visual impressions of shapes indirectly
- 13. he could not make full use of visual cues
- 14. experience

Unit 5

15. questions the purpose of work

Unit 6

16. Latin and Sanskrit both developed from a third language.

17. original and highly important

Unit 7

18. appear to be anonymous but are unique

Unit 8

- **19.** The statement is most probably part of the debate for the topic.
- **20.** The statement is most probably part of the debate against the topic.
- 21. The statement could be part of the debate for or against the topic.
- 22. The statement is not relevant to either the debate for or against the topic.

Acknowledgements

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