Sistec Science Olympiad

TCS Mock Test

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Started on	Thursday, 23 August 2018, 8:19 AM
State	Finished
Completed on	Thursday, 23 August 2018, 8:49 AM
Time taken	30 mins 1 sec
Grade	**9.00** out of 23.00 (**39**%)

Question 1

Correct

Mark 1.00 out of 1.00

⚑ Flag question

A^B means A raised to the power B. If $f(x) = ax^4 - bx^2 + x + 5$ and $f(-3) = 2$, then $f(3) = ?$

Select one:

○ a. 3

◉ b. 8 ✓

○ c. -2

○ d. 1

Your answer is correct.

The correct answer is: 8

Question 2

Correct

Mark 1.00 out of 1.00

⚑ Flag question

1/4 of the tank contains fuel. When 11 liters of the fuel is poured into the tank, the indicator rests at the 1/2 mark. Find the capacity of the tank in liters.

Select one:

○ a. 34

○ b. 10

◉ c. 44 ✓

○ d. 22

Your answer is correct.

The correct answer is: 44

Question 3

Correct

Mark 1.00 out of 1.00

⚑ Flag question

You have been given a physical balance and 7 weights of 47, 46, 43, 48, 49, 42, and 77 kgs. Keeping weights on one pan and object on the other, what is the maximum you can weigh less than 178 kgs.

Select one:

- ⦿ a. 174 ✓
- ◯ b. 175
- ◯ c. 172
- ◯ d. 170

Your answer is correct.

The correct answer is: 174

Question 4

Correct

Mark 1.00 out of 1.00

⚑ Flag question

How many 6-digit even numbers can be formed from the digits 1, 2, 3, 4, 5, 6 and 7 so that the digits should not repeat and the second last digit is even?

Select one:

- ◯ a. 320
- ⦿ b. 720 ✓
- ◯ c. 740
- ◯ d. 1720

Your answer is correct.

The correct answer is: 720

Question 5

Correct

Mark 1.00 out of 1.00

⚑ Flag question

Out of a group of swans, 7/2 times the square root of the total number are playing on the shore of the pond. The remaining 2 are inside the pond. Find the total number of swans.

Select one:

- ◯ a. 20
- ⦿ b. 16 ✓
- ◯ c. 15
- ◯ d. 40

Your answer is correct.

The correct answer is: 16

Question 6

Correct

Mark 1.00 out of 1.00

⚑ Flag question

In a village, every weekend, three-eighth of the men and one-third of the women participate in a social activity. If the total number of participants is 54, and out of them 18 are men then the total number of men and women in the village is:

Select one:

○ a. 186

○ b. 176

⦿ c. 156 ✔

○ d. 166

Your answer is correct.

The correct answer is: 156

Question 7

Correct

Mark 1.00 out of 1.00

⚑ Flag question

If M is 30% of Q, Q is 20% of P, and N is 50% of P, then M/N = ?

Select one:

○ a. 6/5

○ b. 3/250

⦿ c. 3/25 ✔

○ d. 3/285

Your answer is correct.

The correct answer is: 3/25

Question 8

Incorrect

Mark 0.00 out of 1.00

⚑ Flag question

There are 20 persons among whom two are sisters. Find the number of ways in which we can arrange them around a circle so that there is exactly one person between two sisters? Please note that the exact position on the circle does not matter (no seat numbers are marked on the circle), and only the relative positions of the people matter.

Select one:

○ a. 2 * 18!

○ b. 18!

⦿ c. 2! * 19! ✘

○ d. 19!

Your answer is incorrect.

The correct answer is: 18!

Question 9

Incorrect

Mark 0.00 out of 1.00

⚑ Flag question

Find the length of the longest pole that can be placed in an indoor stadium 24m long, 18m wide and 16m high.

Select one:

○ a. 34m

◉ b. 30m ✗

○ c. 25m

○ d. 36m

Your answer is incorrect.

The correct answer is: 34m

Question 10

Incorrect

Mark 0.00 out of 1.00

⚑ Flag question

Of a set of 30 numbers, the average of first 10 numbers is equal to the average of last 20 numbers. Then the sum of the last 20 numbers is:

Select one:

○ a. 2 X sum of the first ten numbers

◉ b. Sum of first ten numbers ✗

○ c. Cannot be determined with the given data

○ d. 2 x sum of last ten numbers

Your answer is incorrect.

The correct answer is: 2 X sum of the first ten numbers

Question 11

Correct

Mark 1.00 out of 1.00

⚑ Flag question

Thomas takes 7 days to paint a house completely whereas Raj would require 9 days to paint the same house completely. How many days will it take to paint the house if both of them work together (give answers to the nearest integer)?

Select one:

○ a. 5days

○ b. 2days

○ c. 3 days

◉ d. 4 days ✓

Your answer is correct.

The correct answer is: 4 days

Question 12

Not answered

Marked out of 1.00

⚑ Flag question

The University of Vikramasila has enrolled nine Ph.D. candidates: Babu, Chitra, Dheeraj, Eesha, Farooq, Gowri, Hameed, Iqbal, Jacob.

- Farooq and Iqbal were enrolled on the same day as each other, and no one else was enrolled that day.
- Chitra and Gowri were enrolled on the same day as each other, and no one else was enrolled that day.
- On each of the other days of hiring, exactly one candidate was enrolled.
- Eesha was enrolled before Babu.
- Hameed was enrolled before Dheeraj.
- Dheeraj was enrolled after Iqbal but before Eesha.
- Gowri was enrolled after both Jacob and Babu.
- Babu was enrolled before Jacob.

Who were the last two candidates to be enrolled?

Select one:

○ a. Gowri and Chitra

○ b. Eesha and Jacob

○ c. Babu and Gowri

○ d. Babu and Chitra

Your answer is incorrect.

The correct answer is: Gowri and Chitra

Question 13

Correct

Mark 1.00 out of 1.00

⚑ Flag question

In a certain city, 60 percent of the registered voters are Party A supporters and the rest are Party B supporters. In an assembly election, if 75% of the registered Party A supporters and 20% of the registered Party B supporters are expected to vote for Candidate A, what percent of the registered voters are expected to vote for Candidate A?

Select one:

○ a. 33

○ b. 45

○ c. 20

⦿ d. 53 ✓

Your answer is correct.

The correct answer is: 53

Question 14

Not answered

Marked out of 1.00

⚑ Flag question

When 100 is to be successively divided by 6, 3, 4, first divide 100 by 6. Then divide the quotient 16 by 3. Then divide the quotient 5 by 4.

A number when successively divided by 5, 3, 2 gives the remainder of 0, 2 and 1 respectively in that order. What will be the remainders when the same number is divided successively by 2, 3 and 5 in that order?

Select one:

○ a. 1, 0, 4

○ b. 2, 1, 3

○ c. 4, 1, 2

○ d. 4, 3, 2

Your answer is incorrect.

The correct answer is: 1, 0, 4

Question 15

Not answered

Marked out of 1.00

⚑ Flag question

A greenhouse is a glass-covered structure (1) _____ (uses, using, used) to grow plants. It has transparent glass that allows sunlight to pass (2) _____ (out, through , inside), but does not allow the heat inside to escape. The same (3) _____ (effect, affect) occurs on the earth. The (4) _____ (sun's, suns, sun) radiation (5) _____ (passes, passing) through the atmosphere to heat the earth's surface. When heated, the earth's surface produces infrared radiation, which has a longer wavelength than that of sunlight. This infrared radiation rises into the atmosphere where gases, such as carbon dioxide, (6) _____ (prevents, prevent, prevented) the infrared radiation from escaping into space. The concentrations of these gases, (7) _____ (that, those, which) are called greenhouse gases, control how much-infrared radiation escapes.

Select one:

○ a. used

○ b. using

○ c. uses

Your answer is incorrect.

The correct answer is: used

Question 16

Not answered

Marked out of 1.00

A greenhouse is a glass-covered structure (1) _____ (uses, using, used) to grow plants. It has transparent glass that allows sunlight to pass (2) _____ (out, through , inside), but does not allow the heat inside to escape. The same (3) _____ (effect, affect) occurs on the earth. The (4) _____ (sun's, suns, sun) radiation (5)

_____ (passes, passing) through the atmosphere to heat the earth's surface. When heated, the earth's surface produces infrared radiation, which has a longer wavelength than that of sunlight. This infrared radiation rises into the atmosphere where gases, such as carbon dioxide, (6) _____ (prevents, prevent, prevented) the infrared radiation from escaping into space. The concentrations of these gases, (7) _____ (that, those, which) are called greenhouse gases, control how much-infrared radiation escapes.

Select one:

○ a. out,

○ b. through ,

○ c. inside

Your answer is incorrect.

The correct answer is: through ,

Question 17

Not answered

Marked out of 1.00

A greenhouse is a glass-covered structure (1) _____ (uses, using, used) to grow plants. It has transparent glass that allows sunlight to pass (2) _____ (out, through , inside), but does not allow the heat inside to escape. The same (3) _____ (effect, affect) occurs on the earth. The (4) _____ (sun's, suns, sun) radiation (5) _____ (passes, passing) through the atmosphere to heat the earth's surface. When heated, the earth's surface produces infrared radiation, which has a longer wavelength than that of sunlight. This infrared radiation rises into the atmosphere where gases, such as carbon dioxide, (6) _____ (prevents, prevent, prevented) the infrared radiation from escaping into space. The concentrations of these gases, (7) _____ (that, those, which) are called greenhouse gases, control how much-infrared radiation escapes.

Select one:

○ a. affect

○ b. effect,

Your answer is incorrect.

The correct answer is: effect,

Question 18

Not answered

Marked out of 1.00

A greenhouse is a glass-covered structure (1) _____ (uses, using, used) to grow plants. It has transparent glass that allows sunlight to pass (2) _____ (out, through , inside), but does not allow the heat inside to escape. The same (3) _____ (effect, affect) occurs on the earth. The (4) _____ (sun's, suns, sun) radiation (5) _____ (passes, passing) through the atmosphere to heat the earth's surface. When heated, the earth's surface produces infrared radiation, which has a longer wavelength than that of sunlight. This infrared radiation rises into the atmosphere where gases, such

as carbon dioxide, (6) _____ (prevents, prevent, prevented) the infrared radiation from escaping into space. The concentrations of these gases, (7) _____ (that, those, which) are called greenhouse gases, control how much-infrared radiation escapes.

Select one:

○ a. sun

○ b. suns,

○ c. sun's,

Your answer is incorrect.

The correct answer is: sun's,

Question 19

Not answered

Marked out of 1.00

⚑ Flag question

A greenhouse is a glass-covered structure (1) _____ (uses, using, used) to grow plants. It has transparent glass that allows sunlight to pass (2) _____ (out, through , inside), but does not allow the heat inside to escape. The same (3) _____ (effect, affect) occurs on the earth. The (4) _____ (sun's, suns, sun) radiation (5) _____ (passes, passing) through the atmosphere to heat the earth's surface. When heated, the earth's surface produces infrared radiation, which has a longer wavelength than that of sunlight. This infrared radiation rises into the atmosphere where gases, such as carbon dioxide, (6) _____ (prevents, prevent, prevented) the infrared radiation from escaping into space. The concentrations of these gases, (7) _____ (that, those, which) are called greenhouse gases, control how much-infrared radiation escapes.

Select one:

○ a. passes,

○ b. passing

Your answer is incorrect.

The correct answer is: passes,

Question 20

Not answered

Marked out of 1.00

⚑ Flag question

A greenhouse is a glass-covered structure (1) _____ (uses, using, used) to grow plants. It has transparent glass that allows sunlight to pass (2) _____ (out, through , inside), but does not allow the heat inside to escape. The same (3) _____ (effect, affect) occurs on the earth. The (4) _____ (sun's, suns, sun) radiation (5) _____ (passes, passing) through the atmosphere to heat the earth's surface. When heated, the earth's surface produces infrared radiation, which has a longer wavelength than that of sunlight. This infrared radiation rises into the atmosphere where gases, such as carbon dioxide, (6) _____ (prevents, prevent, prevented) the infrared

radiation from escaping into space. The concentrations of these gases, (7) _____ (that, those, which) are called greenhouse gases, control how much-infrared radiation escapes.

Select one:

○ a. prevented

○ b. prevent,

○ c. prevents,

Your answer is incorrect.

The correct answer is: prevent,

Question 21

Not answered

Marked out of 1.00

⚑ Flag question

A greenhouse is a glass-covered structure (1) _____ (uses, using, used) to grow plants. It has transparent glass that allows sunlight to pass (2) _____ (out, through , inside), but does not allow the heat inside to escape. The same (3) _____ (effect, affect) occurs on the earth. The (4) _____ (sun's, suns, sun) radiation (5) _____ (passes, passing) through the atmosphere to heat the earth's surface. When heated, the earth's surface produces infrared radiation, which has a longer wavelength than that of sunlight. This infrared radiation rises into the atmosphere where gases, such as carbon dioxide, (6) _____ (prevents, prevent, prevented) the infrared radiation from escaping into space. The concentrations of these gases, (7) _____ (that, those, which) are called greenhouse gases, control how much-infrared radiation escapes.

Select one:

○ a. that,

○ b. which

○ c. those,

Your answer is incorrect.

The correct answer is: which

Question 22

Not answered

Marked out of 1.00

⚑ Flag question

Read each sentence to find out whether there is any grammatical error in it. The error, if any will be in one part of the sentence. The letter of that part is the answer. If there is no error, the answer is 'D'. (Ignore the errors of punctuation, if any).

Select one:

○ a. because the boarding and lodging charges

○ b. I could not put up in a hotel

○ c. were exorbitant.

Your answer is incorrect.

The correct answer is: I could not put up in a hotel

Question 23

Not answered

Marked out of 1.00

⚑ Flag question

 Read each sentence to find out whether there is any grammatical error in it. The error, if any will be in one part of the sentence. The letter of that part is the answer. If there is no error, the answer is 'D'. (Ignore the errors of punctuation, if any).

Select one:

○ a. were exorbitant.

○ b. I could not put up in a hotel

○ c. because the boarding and lodging charges

○ d. No error.

Your answer is incorrect.

The correct answer is: I could not put up in a hotel

Finish review

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