≡

Question 2

Not yet answered

Marked out of 0.50

⚑ Flag question

The significance level of a hypothesis test is the probability of incorrectly rejecting the null hypothesis

Select one:

✓ ○ True

○ False

Question 3

Not yet answered

Marked out of 2.00

⚑ Flag question

Of 500 randomly selected football players at the university of Jordan 7th

Question 1

Not yet answered

Marked out of 1.00

⚑ Flag question

The power of a test can be increased by either increasing the sample size or decreasing t significance level or both.

Select one:
○ True
○ False

Question 2

Not yet answered

Marked out of 0.50

⚑ Flag question

The significance level of a hypothesis test is the ____

○ d. 31.12

Question 5

Not yet answered

Marked out of 1.00

⚑ Flag question

The p-value for a one-sided test (either direction) can be found based on a two sided p-value

Select one:

◉ True

○ False

Question 6

Not yet answered

Marked out of 0.50

⚑ Flag question

Of 500 randomly selected football players at the university of Jordan, 200 players ordered medium size shirt. The 99% two-sided confidence interval on the true proportion of players who would order medium size shirt is:

○ a. (0.3571, 0.4429)

○ b. (0.3436, 0.4564)

○ c. (0.3492, 0.4508)

○ d. (0.3988, 0.4012)

table?

	M	G	S
Women	10	14	10
Men	11	22	14

- ○ a. 11.32

- ○ b. 12.13

- ○ c. 13.12

- ○ d. 31.12

Question 5

Not yet answered

Marked out of 1.00

⚑ Flag question

The p-value for a one-sided test (either direction) can be

Question 4

Not yet answered
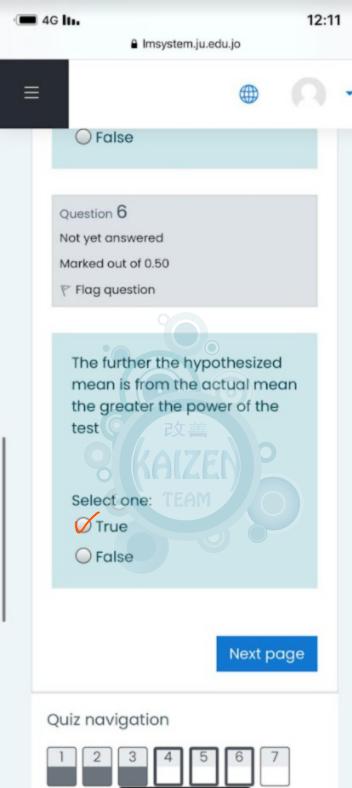
Marked out of 2.00

⚑ Flag question

A faculty is interested in whether there is a relationship between gender and subject at his college. He tabulated some men and women on campus and asked them if their subject was Mathematics (M), Geography (G), and Science (S). What would be the expected frequency of women in Geography based on this table?

	M	G	S
Women	10	14 *	10
Men	11	22	14

$E_{12} = 15.11$

○ a. 11.32

○ b. 12.13

☰ 🌐 👤

○ False

Question 6

Not yet answered

Marked out of 0.50

⚑ Flag question

The further the hypothesized mean is from the actual mean the greater the power of the test

Select one:

✓ ○ True

○ False

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Quiz navigation

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Question 8

Not yet answered

Marked out of 1.00

⚑ Flag question

Will p-value be lower if n = 36 or n = 3,600?

○ a. same

○ b. 36

○ c. 3600

Question 9

Not yet answered

Marked out of 1.50

⚑ Flag question

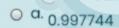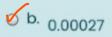A random sample of 300 employees was chosen to

A random sample of 300 employees was chosen to take COVID-19 test. Results indicated that 180 employees have positive results. Use a 0.05 significant level. There is a claim that most employees at the company have COVID-19.

The smallest level of significance at which you would be willing to reject the null hypothesis. (where the claim that most employees at the company have COVID-19)

a. 0.997744

b. 0.00027

c. 0.00057

d. 0.002256

Question 7

Not yet answered

Marked out of 1.00

⚑ Flag question

The t value for a 99% confidence interval estimation with 20 degrees of freedom is

- a. 2.845
- b. 2.528
- c. 2.861
- d. 2.539

Question 8

Not yet answered

Marked out of 1.00

Of 500 randomly selected football players at the university of Jordan, 200 players ordered medium size shirt. How large a sample is required to be if you want to be 95% confident that the error in estimating the true value of population proportion is less than 0.09?

○ a. 197

○ b. 175

○ c. 157

○ d. 114

The melting point of a binder used in manufacturing a rocket propellant is approximately normally distributed. the mean is thought to be 100, and the standard deviation is 4. you wish to test

HO: $\mu = 100$

versus

HI: $\mu \neq 100$

with a sample of n = 16 specimens. suppose that the true mean melting point is 102. What is the probability of type II error (β) for the two-tail test with a=0.05?

○ a. 0.121999

0.34454l

○ b. 0.0615

○ c. 0.4879