



Course Homepage Quiz Review Test Submission: PLS

Review Test Submission: PLS

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Course	(MERGED) ACN 7310.002 - HCS 7310.002 - F18
Test	PLS
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Attempt Score	73.66667 out of 100 points
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	d All Answers, Submitted Answers, Correct Answer

Question 1 7 out of 10 points

> Partial least square (PLS) methods and canonical correlation analysis (CCA) are used to analyze the relationship between [a]. The two basic types of PLS are PLS [b] and PLS [c]; the first one conducts a(an) [d] projection, and the second one a(an) [e] projection. In PLSC and CCA, a [f] matrix of the two data tables is analyzed with an SVD. From the SVD, we can project observations from the two tables onto the components to create [g]. PLSC finds a pair of latent variables with maximum [h]. Having different [i] than PLSC, CCA finds the pair of latent variables with maximum

Specified Answer for: a 🚫 two data tables

Specified Answer for: b Correlation

Specified Answer for: c 🚫 Regression

Specified Answer for: d (3) orthogonal

Specified Answer for: e (3) orthogonal

Specified Answer for: f 🚫 correlation

Specified Answer for: g 🚫 latent variables

Specified Answer for: h 🚫 covariance

Specified Answer for: i 👩 goal

Specified Answer for: j 🚫 correlation

Correct Answers for: a		
Evaluation Method	Correct Answer	Case Sensitivity
Exact Match	two data tables	
Exact Match	two matrices	
Correct Answers for: b		
Evaluation Method	Correct Answer	Case Sensitivity

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🤣 Exact Match	correlation	
🤡 Exact Match	regression	
Correct Answers for: c		
Evaluation Method	Correct Answer	Case Sensitivity
🤡 Exact Match	regression	
Exact Match	correlation	
Correct Answers for: d		
Evaluation Method	Correct Answer	Case Sensitivity
C Exact Match	symmetric	
C Exact Match	asymmetric	
Correct Answers for: e		
Evaluation Method	Correct Answer	Case Sensitivity
Exact Match	asymmetric	
C Exact Match	symmetric	
Correct Answers for: f		
Evaluation Method	Correct Answer	Case Sensitivity
C Exact Match	cross-product	
C Exact Match	correlation	
Correct Answers for: g		
Evaluation Method	Correct Answer	Case Sensitivity
C Exact Match	latent variables	
Correct Answers for: h		
Evaluation Method	Correct Answer	Case Sensitivity
C Exact Match	covariance	
Correct Answers for: i		
Evaluation Method	Correct Answer	Case Sensitivity
Exact Match	constraints	
Correct Answers for: j		
Evaluation Method	Correct Answer	Case Sensitivity
Sexact Match	correlation	

Question 2 10 out of 10 points

What are factor scores in PCA equivalent to in PLS?

Selected Answer: 👩 a. Latent variables

Answers: 👩 a. Latent variables

b. Saliances

c. Bootstrap ratios

d. Loadings

e. Contributions

Question 3

10 out of 10 points

There are many types of PLS, including:

Selected Answers: 🕜 c. PLS-PM

🕜 d. PLS-R

🕜 h. PLS-C

Answers:

a. PLS-P b. PLS-READ

🕜 c. PLS-PM

🕜 d. PLS-R

e. PLS-AM

f. PLS-G

g. PLS-DO

n. PLS-C

Question 4 10 out of 10 points

Please match the descriptions to the methods

Question Correct Match

PLS-C

finds components that maximize the covariance between 2 latent variables computed on 2 quantitative matrices

PLS-R



finds components that maximize the prediction of one quantitative table from another

PLS-

🕜 a.

CA

finds components that maximize the covariance between 2 latent variables computed on 2 contingency tables

CCA



finds components that maximize the correlation between 2 latent variables computed on 2 quantitative matrices

Selected Match



finds components that maximize the covariance between 2 latent variables computed on 2 quantitative matrices

finds components that maximize the prediction of one quantitative table from another

🕜 a.

finds components that maximize the covariance between 2 latent variables computed on 2 contingency tables

finds components that maximize the correlation between 2 latent variables computed on 2 quantitative matrices

All Answer Choices

finds components that maximize the covariance between 2 latent variables computed on 2 contingency tables

finds components that maximize the covariance between 2 latent variables computed on 2 quantitative matrices

finds components that maximize the correlation between 2 latent variables computed on 2 quantitative matrices

finds components that maximize the prediction of one quantitative table from another

Question 5 10 out of 10 points

> If two data tables, X and Y, are centered and normalized, what will their inner product $(\mathbf{R} = \mathbf{Y}^{\mathsf{T}}\mathbf{X})$ be?

Selected Answers: 🙆 a. A Burt matrix

e. A rectangular correlation matrix

Answers: a. A Burt matrix

> b. A group matrix c. A square matrix d. A contingency table

e. A rectangular correlation matrix f. A rectangular covariance matrix

g. A diagonal matrix

Question 6 10 out of 10 points

> If the columns of two data tables, **X** and **Y**, are centered (and not normalized), what will their inner product ($\mathbf{R} = \mathbf{Y}^{\mathsf{T}}\mathbf{X}$) be?

Selected Answers: 🙆 a. A group matrix

ob. A rectangular covariance matrix

Answers: a. A group matrix

o b. A rectangular covariance matrix

c. A Burt matrix d. A square matrix e. A diagonal matrix

f. A rectangular correlation matrix

g. A contingency table

Question 7 10 out of 10 points

> When would PLS-C on matrices X and Y become equivalent to PCA? Select the combination that must be true.

Selected Answers: 👩 c. X and Y are the same

g. X and Y are data tables with quantitative data

👩 i. X is centered

k. Y is centered

Answers: a. X and Y are Burt matrices

b. X is not centered

🖔 c. X and Y are the same

d. X and Y are contingency tables

e. X and Y are design matrices

f. Y is not centered

👩 g. X and Y are data tables with quantitative data

h. X and Y are data tables with 1s and 0s

i. X is centered

j. You can't make PCA and PLS equivalent

k. Y is centered

I. The SVD constraints have to change

Question 8 0 out of 10 points

From Question 7, why?

Selected Answer: [None Given]

Correct Answer: [None]

Question 9 6.66667 out of 10 points

> When would PLS-C on matrices X and Y become equivalent to CA? Select the combination that must be true.

Selected Answers: 🙆 b. X and Y are data tables with quantitative data

c. X and Y are data tables with 1s and 0s

d. Y is not centered

h. X and Y are contingency tables

k. X and Y are design matrices

I. X is not centered

Answers: a. X is centered

b. X and Y are data tables with quantitative data

c. X and Y are data tables with 1s and 0s

d. Y is not centered

e. X and Y are the same

f. Y is centered

g. The SVD constraints have to change

h. X and Y are contingency tables

i. You can't make CA and PLS equivalent

j. X and Y are Burt matrix

k. X and Y are design matrices

I. X is not centered

Question 10 0 out of 10 points

From Question 9, why?

Selected Answer: [None Given]

Correct Answer: [None]

Sunday, December 9, 2018 1:36:18 PM CST

← OK