## ✓ Congratulations! You passed!

TO PASS 80% or higher



grade 100%

## Quiz 3

LATEST SUBMISSION GRADE 100%			
1.	Which of the following statements describe functional connectivity?	1 / 1 point	
	The directed influence of one brain region on the physiological activity recorded in other brain regions.		
	Makes statements about the structure of relationships among brain regions.		
	✓ Correct		
	✓ Usually makes no assumptions about the underlying biology.		
	✓ Correct		
2.	Which of the following statements describe effective connectivity?	1 / 1 point	
	Usually makes anatomically motivated assumptions and restricts inference to networks comprising of a number of pre-selected regions of interest.		
	✓ Correct		
	☐ The undirected association between two or more fMRI time series.		
	Claims to make statements about causal effects among tasks and regions.		
	✓ Correct		
3.	Which approach attempts to find spatial modes in the data that account for most of the variance-covariance structure?	1 / 1 point	
	Principal components analysis		
	Seed analysis		
	Independent components analysis     Dynamic causal models		
	<u> </u>		
	✓ Correct		
4.	Which approach first fits a GLM to obtain separate parameter estimates for each individual trial, and thereafter computes the correlation between these estimates across voxels?	1 / 1 point	
	Seed analysis		
	Beta-series approach		
	Partial correlation  Dynamic causal models		
	by namic causal models		
	✓ Correct		
5.	Which of the following are assumptions of ICA?	1 / 1 point	
	✓ The components are statistically independent.		
	✓ Correct		
	✓ Linear mixing of sources.		

✓ Correct
All the components are Gaussian.
Which method attempts to model latent neuronal interactions using hemodynamic time series.
Principal Components Analysis
Dynamic causal models
Independent Components Analysis
Structural equation models
O Street in equation models
✓ Correct
Which approach involves extracting data from a certain region of interest, and thereafter computing its correlation with all
voxels in the brain?
Seed analysis
○ Independent components analysis
O Dynamic causal models
Structural equation models
✓ Correct
This method decomposes the data set into a set of spatially independent component maps with a set of corresponding
time-courses.
○ Seed analysis
O Dynamic causal models
Principal components analysis
Independent components analysis
✓ Correct
This approach seeks to minimize the difference between the observed covariance matrix and the one implied by the structure of the model.
○ Seed analysis
Oynamic causal models
Independent components analysis
Structural equation models
✓ Correct
Mediation is a test of whether the relationship between an initial variable and an outcome variable:
Is unrelated to confounding variables
Is explained by a third variable
Is caused by the initial variable
Depends on the level of a third variable
✓ Correct
Moderation is a test of whether the relationship between an initial variable and an outcome variable:
Is unrelated to confounding variables
Is explained by a third variable
Depends on the level of a third variable
S caused by the initial variable

✓ Correct

12.	2. Mediation is often tested with a test because the distribution of the a*b product of path coefficients normally distributed. This statistical power.	1 / 1 point
	O Bootstrap, is, reduces	
	Bootstrap, is not, increases	
	Permutation, is, reduces	
	Permutation, is not, reduces	
	✓ Correct	