Written Exam in Neuroscience				
	Excellent 10	Acceptable. 8.5	Unacceptable 7	
Hypothesis/Specific	Excellent	Acceptable	Unacceptable	
Aims				
20 %	Hypothesis and	Good grasp of	Hypothesis/aims and	
Identify the hypothesis	aims clearly	hypothesis/aims	significance not	
being tested or the	explained and fully	and significance	adequately explained	
specific aims and	understood.	except for minor		
scientific goals of the	Thorough	gaps		
paper. Describe the	description of			
scientific rationale or	impact and			
background of the	significance.			
hypothesis/goals. Assess				
the significance or				
scientific impact of the				
study (how it moves the				
field forward).				
Experimental Design	Excellent	Acceptable	Unacceptable	
20 %				
Describe the quality of	Provides detailed	Describes	Fails to describe how the	
the experimental	assessment of the	experimental design	experimental design supports	
design. Did the design	adequacy of the	but lacks full	the hypothesis.	
adequately address the	experimental	assessment of their	Strengths and weaknesses are	
hypothesis or proposed	design, methods	contribution to the	lacking or inadequate	
aims? Describe	and expected	hypothesis or missing		
strengths of weaknesses	outcomes. Identifies	elements of the		
of the design. Indicate	strengths and	approach.		
how the design might	weaknesses and	Strengths and		
be strengthened: for	gives alternatives.	weaknesses are		
instance, to address a		described, but lack		
more definitive		clarity or focus.		
outcome or improve				
the reliability of the				
data.				

Data and	Excellent	Acceptable	Unacceptable
Interpretation			
20 %	Evaluation of data	Evaluation of the data	The answer does not clearly
Describe the major	and the	and interpretation is	evaluate the adequacy of the
findings and the	interpretation are	addressed, but some	data interpretation; strengths
author's interpretation.	accurate and clearly	minor points are	and limitations are inaccurate
Discuss the strengths	presented; strengths	poorly presented,	or not adequately addressed.
and limitations of the	and limitations are	incomplete or	Explanation of controls
data presentation and	clearly and	unclear, or strengths	inadequate or not addressed.
whether or not the	accurately	and limitations are	
interpretation is	evaluated.	not fully evaluated.	
appropriate and based	Assessment of	Adequacy of controls	
on the data. Describe	controls is	is only partially	
the adequacy of	addressed.	discussed.	
experimental controls?			
Are there any concerns			
with human subjects or			
animal welfare?			
Conclusions	Excellent	Acceptable	Unacceptable
20 %			
Are the conclusions of	Describes how	Describes how the	Fails to adequately assess the
the authors justified	conclusions and	conclusions are	quality of the conclusions and
based on the findings?	implications are	reached but misses	implication stated by the
Do the authors describe	correctly or	some minor strengths	authors
the importance of this	incorrectly	or weaknesses in the	
study to the field and	explained in the	conclusions.	
does it fairly represent	paper and gives		
findings of the	examples of		
experiments?	how conclusions are		
	based on the data.		
Future Experiments	Excellent	Acceptable	Unacceptable
20 %			
What do you see as	Identifies a logical	Gives some	Future experiments suggested
the next scientific	next question and a	suggestions for the	are not logical extensions of the
question to emerge from	feasible experiment.	next experiments but	paper. The experiment is not
this study? Design an		have minor errors or	logical or feasible.
experiment to test it.		deficiencies in clarity	
		or logic. Proposed	
		experiment has	
		identifiable	
		weaknesses.	