

1 Identify **two** ways Maguire et al. (2000) matched the two groups of participants in their study of taxi drivers.

1 .....

.....

.....

2 .....

.....

.....

[2]



(b) Outline **one** weakness of collecting qualitative data in Sperry's (1968) study.

-----  
-----  
-----  
-----

[2]

(c) Outline **one** way in which Casey et al.'s (2011) study into neural correlates of delay of gratification can be said to lack ecological validity.

-----  
-----  
-----  
-----

[2]

4 Outline **three** different results from Blakemore and Cooper's (1970) study into the impact of early visual experience.

1

---

---

---

---

---

2

---

---

---

---

---

3

---

---

---

---

---

- 5 Describe how the type of data collected and the equipment used differed between Sperry's (1968) study on hemisphere disconnection and Casey et al.'s (2011) study on neural correlates of delay of gratification.

Type of data collected

-----

-----

-----

-----

-----

The equipment used

-----

-----

-----

-----

-----

[4]

- 6(a) Explain how Casey et al.'s (2011) study into delay of gratification relates to the theme of 'regions of the brain'.

-----

-----

-----

-----

-----

-----

-----

-----

[4]





(c) Identify the dependent variable in Maguire et al.'s (2000) study into the brains of taxi drivers.

-----

-----

[1]

10 Compare Blakemore and Cooper's (1970) study with Maguire *et al.*'s (2000) study suggesting one **difference** OR one **similarity** between them.

-----

-----

-----

-----

-----

-----

-----

-----

-----

**[4]**

11(a)

i. Give the sample used in Sperry's split-brain study.

----- **[1]**

ii. Outline **one** example of sampling bias in this study.

-----

-----

-----

-----

**[2]**





- (b) Casey et al.'s study examined behavioural and neural correlates of delay of gratification using functional magnetic resonance imaging (fMRI):

Outline how delay of gratification is linked to regions in the brain.

---

---

---

---

---

---

---

---

---

---

[3]

- 16 Outline **one** difference between Blakemore and Cooper's study on the impact of early visual experience and Maguire's taxi driver study.

-----

-----

-----

-----

-----

-----

-----

-----

-----

-----

[4]



(b) Casey et al.'s study was a longitudinal study.

Suggest **one** strength of conducting this study longitudinally.

-----

-----

-----

-----

[2]

19 Describe **one** similarity between Casey et al.'s study on delay of gratification and Sperry's study on the effects of hemisphere disconnection.

-----

-----

-----

-----

-----

-----

-----

-----

[4]

20 From Blakemore and Cooper's study into the impact of early visual experience:

Briefly describe how the visual environment in which the kittens were reared was manipulated.

-----

-----

-----

-----

[2]

END OF QUESTION PAPER