

Surname	Centre Number	Candidate Number
Other Names		0



GCSE

4432/01

PSYCHOLOGY

**UNIT 2: Cognitive Psychology; Individual Differences;
and Ethics and Research Issues in Psychology**

A.M. TUESDAY, 10 June 2014

1 hour 30 minutes

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1.	5	
2.	12	
3.	16	
4.	13	
5.	19	
6.	15	
Total	80	

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INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided in this booklet.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.

You are reminded that assessment will take into account the quality of written communication used in answers that involve extended writing (question 5(e)).

Answer all questions.

1. (a) Describe the function of the following parts of the eye. [2]

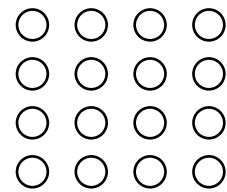
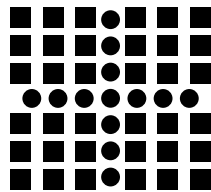
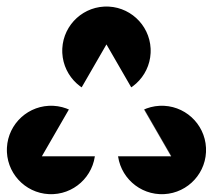
(i) Optic nerve

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(ii) Cornea

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(b) Identify the Gestalt principles seen in the following pictures. [3]



(i)

(ii)

(iii)

2. (a) Draw **three** lines to link Piaget's stages of cognitive development to the correct age range. [3]

Stages of cognitive development

Pre-operational

Sensori-motor

Concrete operational

Age ranges

Birth to 2 years

2 to 7 years

7 to 11 years

12 years onwards

(b) Explain how Piaget’s theory of cognitive development has been applied in education. [3]

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(c) Explain **one** difference between Piaget and Vygotsky’s theories of cognitive development. [2]

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(d) The participants in Piaget’s studies were children. Explain **two** ethical issues of using children in psychological research. [4]

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- (c) Jamie’s psychology class decided to investigate how often young people with hoodies are wrongly stopped by a security guard when leaving a shop. They conducted a series of observations in their local shopping centre. The results are shown in the table below.

	Number of times they were wrongly stopped.
Wearing a hoodie	27
Not wearing a hoodie	16

- (i) Explain what is meant by the term *observation*? [2]

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.....

- (ii) Write a suitable hypothesis for this observation by Jamie’s psychology class. [2]

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- (iii) Explain **one** advantage of using an observation in this study. [2]

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- (iv) Using the data in the table above, write an appropriate conclusion for this study. [2]

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4. Professor Jenkins is investigating gender differences in the use of mobile phones by university students. She has sent a questionnaire about mobile phone use to students at a local university.

The table below shows the results from one of the questions included in the questionnaire.

How many texts do you normally send in a day?

Males	
Participant	Number of texts
1	4
2	1
3	3
4	3
5	4

Females	
Participant	Number of texts
1	9
2	6
3	7
4	10
5	8

- (i) Write another suitable question that could have been included in her questionnaire. [1]

.....

.....

- (ii) Calculate the mean number of texts sent by males. Show your calculations. [2]

Mean number of texts:

- (iii) Calculate the mean number of texts sent by females. Show your calculations. [2]

Mean number of texts:

- (iv) Identify the independent variable in this research. [1]

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(v) 1. Identify the experimental design used in this research. [1]

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2. Why was it appropriate to use this experimental design in this research? [2]

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(vi) Explain **two** ethical issues in this research [4]

1.

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2.

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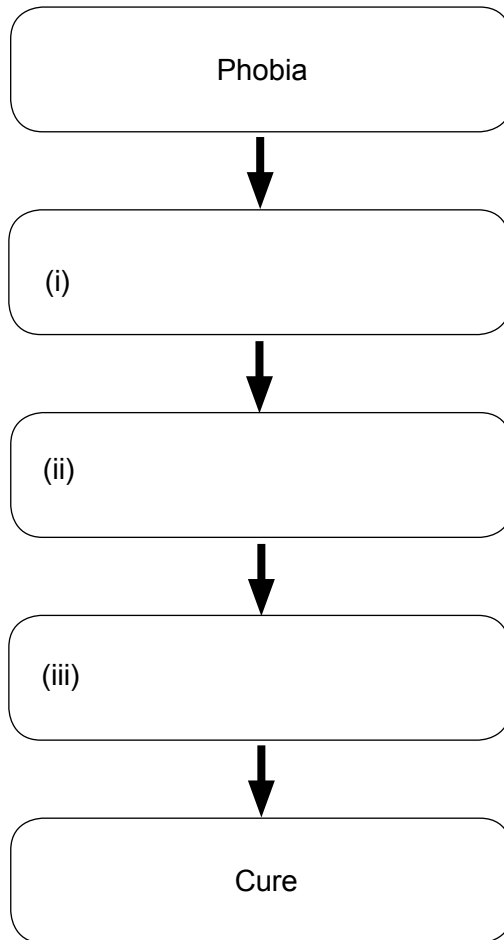
5. (a) Define what is meant by *deviation from social norms*. [2]

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(b) The diagram below shows the different stages of systematic desensitisation. Complete the diagram with the words from the box. [3]

learn relaxation technique	counter-conditioning	create anxiety hierarchy
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(c) (i) Identify **two** similarities between unipolar and bipolar depression. [2]

1.

2.

(ii) Identify **two** differences between unipolar and bipolar depression. [2]

1.

2.

(d) Describe how psychosurgery is used to treat mental illness.

[4]

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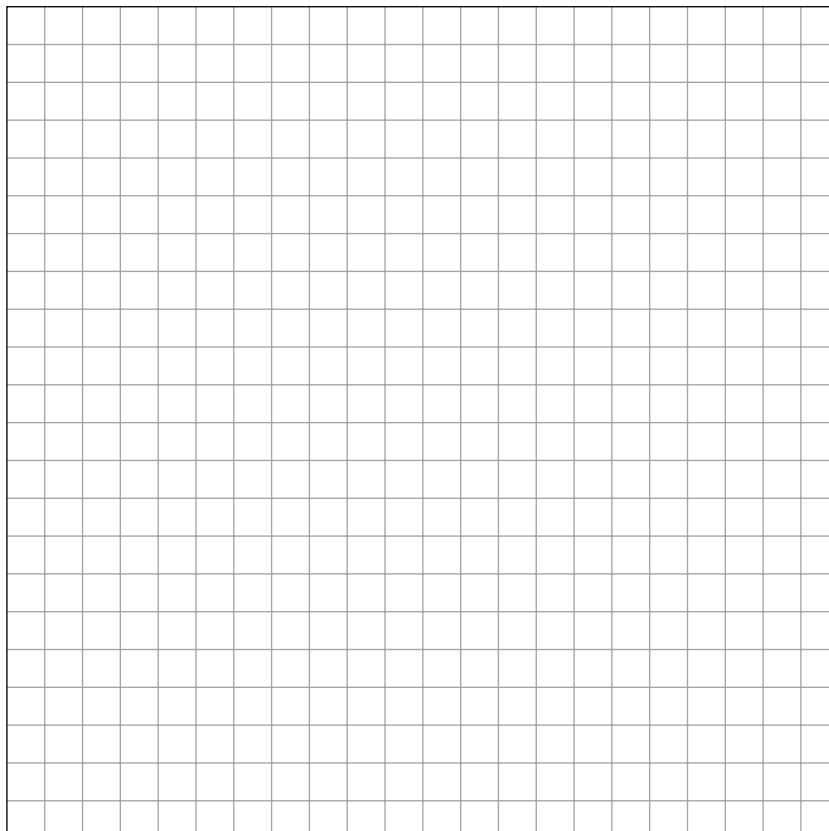
TURN OVER FOR QUESTION 6

6. Jack conducted a psychology project on happiness and gardening in his local area. He asked participants to record the number of hours they spend gardening during a normal week and he rated their happiness on a scale of 1 to 10 (1 being very unhappy and 10 being very happy). The data he collected is shown in the table below.

Participant Number	Happiness rating	Hours a week spent gardening
1	9	15
2	5	9
3	6	11
4	4	7
5	4	6
6	8	12
7	7	10
8	3	5

- (a) (i) Using the data in the table, draw an appropriately labelled graph.

[5]



(ii) Write an appropriate aim for this study. [2]

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(iii) Write an appropriate conclusion for your graph. [2]

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(b) (i) Explain **one** advantage of using a correlation. [2]

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(ii) Explain **one** disadvantage of using a correlation. [2]

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(c) Describe **one** way that Jack could have selected his participants using systematic sampling. [2]

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