



Oxford Cambridge and RSA

A Level Psychology

H567/01 Research methods

Monday 4 June 2018 – Afternoon

Time allowed: 2 hours



You must have:

- a scientific or graphical calculator



First name										
Last name										
Centre number						Candidate number				

INSTRUCTIONS

- Use black ink.
- Complete the boxes above with your name, centre number and candidate number.
- Answer **all** the questions.
- Write your answer to each question in the space provided. If additional space is required, use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the barcodes.

INFORMATION

- The total mark for this paper is **90**.
- The marks for each question are shown in brackets [].
- Quality of extended responses will be assessed in questions marked with an asterisk (*).
- This document consists of **20** pages.

SECTION A: Multiple choice

Answer **all** the questions.

1 Which of these is a weakness of a quasi experiment?

- A control of the dependent variable
- B control of the independent variable
- C control of the measurement of the dependent variable
- D control of the measurement of the independent variable

Your answer

[1]

2 Which does not have both an IV and DV?

- A correlation
- B field experiment
- C laboratory experiment
- D quasi experiment

Your answer

[1]

3 What is it best to do with extraneous variables?

- A eliminate them
- B ignore them
- C monitor them
- D record them

Your answer

[1]

4 What best describes the target population?

- A the people you want to study and apply the findings to
- B the people you want to study and conduct research on in a follow-up study
- C the people you want to study and obtain data from
- D the people you want to study and use in the research

Your answer

[1]

5 What is the name given to data before any analysis is performed?

- A interval
- B ordinal
- C quantitative
- D raw

Your answer

[1]

6 What is the name for the type of reliability that involves dividing a test into two parts and comparing scores on both parts of the test?

- A semi-structured
- B split-half
- C test-retest
- D two-tailed

Your answer

[1]

7 Which of these inferential statistical tests does not require the data to be ranked as part of the calculation?

- A Chi-square
- B Mann-Whitney U test
- C Spearman's Rho
- D Wilcoxon Signed Ranks test

Your answer

[1]

8 Which of these is an advantage of secondary data?

- A already exists
- B easy to analyse
- C easy to interpret
- D ecologically valid

Your answer

[1]

9 What is meant by the term 'significant result'?

- A it is a figure that you compare the answer from an inferential statistical test with
- B it is an answer that exceeds a certain probability level
- C it is an answer that tells us something important
- D it is an approximate answer

Your answer

[1]

10 In research terms, what is meant by 'social desirability'?

- A responding in a way that is approved of by society
- B responding in a way to be perceived as more friendly
- C responding in a way to please the researcher
- D responding in a way to provide the researcher with what is expected

Your answer

[1]

11 In which section of a practical report write-up would you find details of standardised instructions given to participants?

- A abstract
- B appendices
- C discussion
- D introduction

Your answer

[1]

12 What is 'the Harvard system'?

- A a way of presenting results from an inferential statistical test in a practical report
- B a way of providing details of the materials used in a practical report
- C a way of summarising how participants were obtained in a practical report
- D a way of writing academic references in a practical report

Your answer

[1]

13 Which best describes what a semantic differential rating scale is?

- A selecting a point on a line to indicate your strength of opinion about something
- B selecting a point on a line to respond to how much you agree with something
- C selecting a point on a line with different numbers along it
- D selecting a point on a line with words that have opposite meanings at either end

Your answer

[1]

14 Who conducts a peer review?

- A a government minister
- B a statistician
- C fellow academics
- D lay persons

Your answer

[1]

15 Which of these different types of data would not include any information in the form of words?

- A interval
- B nominal
- C qualitative
- D secondary

Your answer

[1]

16 Which of these could not be the answer from a Spearman's Rho inferential statistical test?

- A -0.728
- B 0.3
- C 0.892
- D 1.52

Your answer

[1]

17 What is the mode in this set of data?

17, 19, 12, 23, 17, 25, 19, 17

A 17

B 17.5

C 18

D 19

Your answer

[1]

18 The variance of a set of scores is 14.44. What is the standard deviation?

A 1.4

B 3.8

C 14.0

D 208.51

Your answer

[1]

19 Which variable was negatively correlated with length of time as taxi driver in the Maguire et al. study?

A volume of grey matter in the anterior hippocampus

B volume of grey matter in the central hippocampus

C volume of grey matter in the hippocampus

D volume of grey matter in the posterior hippocampus

Your answer

[1]

20 What type of data was collected in the Piliavin et al. study for the dependent variable of length of time that it took for help to be offered?

A interval

B non-parametric

C qualitative

D secondary

Your answer

[1]

7
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PLEASE DO NOT WRITE ON THIS PAGE
Turn over for the next question.

SECTION C: Data analysis and interpretation

Answer **all** the questions.

Love is in the (question) air. We can fall 'in to it' and 'out of it', it can make us feel both happy and sad or even angry and mad, but what is love? Psychologists decided to investigate this further by using the self-report method in which they posted out a questionnaire to members of the public to complete. Some of the data from the first twenty males and first twenty females to respond are presented in the tables below.

Table 1: Ratings of the importance of physical appearance for being in love given by male and female participants

(1= 'not very important' to 10 = 'extremely important')

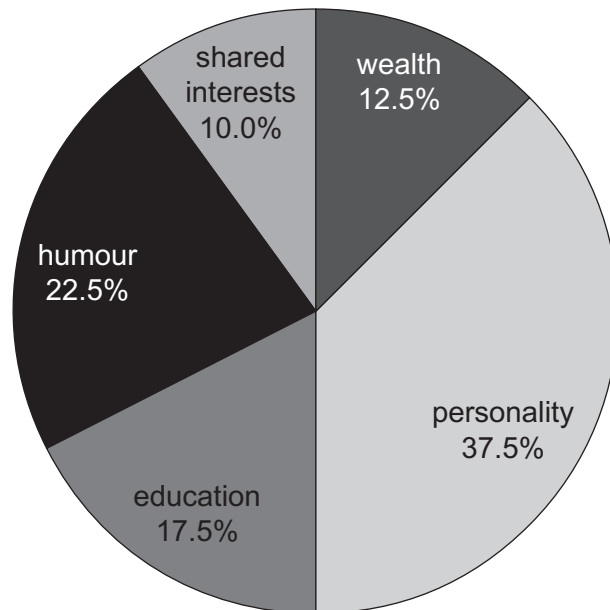
males	females
7	3
5	7
9	1
10	6
8	4
7	9
7	6
9	3
8	5
10	3
9	5
10	3
9	5
9	5
7	3
6	7
5	5
6	1
7	3
9	2

Table 2: Responses to the question ...
'do you believe in love at first sight?'

	yes	no
males	5	15
females	12	8

Figure 1

Pie chart showing the percentage of people who thought which attributes were the most important for being in love with someone



26 A partly completed table of measures of central tendency for the data collected in Table 1 is presented below.

Measures of central tendency for the ratings of the importance of physical appearance for being in love given by male and female participants		
	males	females
mean		4.3
median	8.0	
mode	9.0	

Answer the following questions so that the rest of the table can be completed. Show all your workings.

(a) Calculate the mean rating of the importance of physical appearance for being in love given by males. Write your answer to two significant figures.

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.....

..... [3]

(b) Calculate the median rating of the importance of physical appearance for being in love given by females.

.....

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.....

..... [2]

(c) What is the mode for the importance of physical appearance for being in love given by females?

.....

..... [1]

(b) Using the extract of the tables of critical values for the Chi-square test presented below, what is the critical value at the 5% probability level for data collected in this study?

Degrees of freedom (df)	Probability level		
	0.5	0.05	0.01
1	0.455	3.841	6.635
2	1.386	5.991	9.210
3	2.366	7.815	11.345
4	3.357	9.488	13.277
5	4.351	11.070	15.086

.....

 [2]

(c) Write the significance statement for the analysis performed on this data using the Chi-square test.

.....

 [2]

31 The discussion section of the write-up of a practical report includes a conclusion made from the analysis of the data collected. Outline **one** conclusion from the discussion section of any of your own practical activities.

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.....

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..... [3]

END OF QUESTION PAPER

ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

A large area of lined paper for writing. It features a vertical solid line on the left side, creating a margin. The rest of the page is filled with horizontal dotted lines, providing space for writing answers.

A large area of the page is reserved for writing, featuring a vertical solid line on the left side and horizontal dotted lines extending across the page.



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