

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
A LEVEL**

H567/01

PSYCHOLOGY

Research methods

MONDAY 4 JUNE 2018: Afternoon

**TIME ALLOWED: 2 hours
plus your additional time allowance**

MODIFIED ENLARGED

First name		Last name	
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Centre number						Candidate number				
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YOU MUST HAVE:

**a scientific or graphical calculator
Loose Sheet for Section C**

READ INSTRUCTIONS OVERLEAF



INSTRUCTIONS

Use black ink.

Complete the boxes on the front page 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.

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 (*).

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SECTION A: Multiple choice

Answer ALL the questions.

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

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

2 Which does not have both an IV and DV? [1]

A correlation

B field experiment

C laboratory experiment

D quasi experiment

Your answer

3 What is it best to do with extraneous variables? [1]

A eliminate them

B ignore them

C monitor them

D record them

Your answer

4 What best describes the target population? [1]

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

5 What is the name given to data before any analysis is performed? [1]

A interval

B ordinal

C quantitative

D raw

Your answer

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? [1]

A semi-structured

B split-half

C test-retest

D two-tailed

Your answer

7 Which of these inferential statistical tests does not require the data to be ranked as part of the calculation? [1]

A Chi-square

B Mann-Whitney U test

C Spearman's Rho

D Wilcoxon Signed Ranks test

Your answer

8 Which of these is an advantage of secondary data? [1]

A already exists

B easy to analyse

C easy to interpret

D ecologically valid

Your answer

9 What is meant by the term ‘significant result’? [1]

- 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

10 In research terms, what is meant by ‘social desirability’? [1]

- 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

11 In which section of a practical report write-up would you find details of standardised instructions given to participants? [1]

A abstract

B appendices

C discussion

D introduction

Your answer

12 What is ‘the Harvard system’? [1]

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

13 Which best describes what a semantic differential rating scale is? [1]

- 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

14 Who conducts a peer review? [1]

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

Your answer

15 Which of these different types of data would not include any information in the form of words? [1]

A interval

B nominal

C qualitative

D secondary

Your answer

16 Which of these could not be the answer from a Spearman's Rho inferential statistical test? [1]

A -0.728

B 0.3

C 0.892

D 1.52

Your answer

17 What is the mode in this set of data? [1]

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

A 17

B 17.5

C 18

D 19

Your answer

18 The variance of a set of scores is 14.44. What is the standard deviation? [1]

A 1.4

B 3.8

C 14.0

D 208.51

Your answer

19 Which variable was negatively correlated with length of time as taxi driver in the Maguire et al. study? [1]

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

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? [1]

A interval

B non-parametric

C qualitative

D secondary

Your answer

SECTION B: Research design and response

Answer ALL the questions.

TRAVEL LOG. How do people pass the time on a long journey? Some people seem to cope better than others and manage to keep themselves occupied or simply don't mind (perhaps even enjoy) the rest. Others find it more difficult and can become bored and restless. Psychologists want to use the naturalistic observation method to investigate this and find out if some types of behaviour and actions are more common than others.

21 Write an appropriate research aim for the study.

[2]

SECTION C: Data analysis and interpretation

Answer ALL the questions.

- 26 A partly completed table of measures of central tendency for the data collected in Table 1 on the Loose Sheet 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.

[3]

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

[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?

	Probability level		
Degrees of freedom (df)	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.

[3]

END OF QUESTION PAPER



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