Modified Enlarged 18pt

OXFORD CAMBRIDGE AND RSA EXAMINATIONS

Monday 16 May 2022 – Afternoon

AS Level Psychology

H167/01 Research methods

Time allowed: 1 hour 30 minutes
plus your additional time allowance

YOU MUST HAVE:
a scientific or graphical calculator
a ruler (cm/mm)

Please write clearly in black ink.

Centre number | | | | | |

Candidate number | | | | |

First name(s) _____

Last name _____

READ INSTRUCTIONS OVERLEAF

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DC (EF/SW) 316788

1036608958

INSTRUCTIONS

Use black ink. You can use an HB pencil, but only for graphs and diagrams.

Write your answer to each question in the space provided. If you need extra space use the lined pages at the end of this booklet. The question numbers must be clearly shown.

Answer ALL the questions.

INFORMATION

The total mark for this paper is 75.

The marks for each question are shown in brackets [ ].

Quality of extended response will be assessed in questions marked with an asterisk (*).

ADVICE

Read each question carefully before you start your answer.

SECTION A – Multiple choice

Answer ALL the questions. You should put the letter of the correct answer in the box provided.

1 What sampling technique is used when placing an advert in a newspaper to recruit participants? [1]

A opportunity

B random

C self-selected

D snowball

Your answer ☐

2 Which of these research methods or experimental designs does not have an independent variable that is controlled and manipulated directly by the researcher? [1]

A field experiment

B lab experiment

C quasi experiment

D repeated measures design experiment

Your answer ☐

3 Which of these is not covered by the ethical issue of 'respect'? [1]

A confidentiality

B consent

C payment

D withdrawal

Your answer ☐

4 What type of correlation is shown in the scatter diagram below? [1]

A strong negative

B strong positive

C weak positive

D zero

Your answer ☐

5 What does the null hypothesis in an experiment state? [1]

A there will be an effect of the IV on the DV

B there will not be an effect of the IV on the DV

C there will be a relationship between the IV and the DV

D there will not be a relationship between the IV and the DV

Your answer ☐

6 Which of these indicates the research is significant at the 3% level of probability? [1]

A $p<3.0$

B $p<0.3$

C $p<0.03$

D $p<0.003$

Your answer ☐

7 In which of these sections of the write-up of a practical report would you find specific details of any apparatus used in the research? [1]

A abstract

B discussion

C method

D results

Your answer ☐

8 Which of these is not a type of validity? [1]

A construct

B criterion

C face

D visual

Your answer ☐

9 Which of these would not be included when citing an academic reference using the Harvard system? [1]

A first name initials of researchers

B probability level of the findings obtained in the research

C title of the publication of the research

D year of publication of the research

Your answer ☐

10 Which of these is the name of the process by which fellow academics scrutinise the work of others prior to publication? [1]

A peer reference

B peer reliability

C peer response

D peer review

Your answer ☐

11 Which of these was an independent variable in the Grant et al. (1998) study into context dependent memory? [1]

A type of learning material used

B type of participants used

C type of questions used

D type of testing condition used

Your answer ☐

12 Which of these is a reason that the 1997 study of autism by Baron-Cohen et al. is considered a quasi experiment? [1]

A location of the study

B measure of the dependent variable

C status of participants

D use of facial expressions

Your answer ☐

13 Which of these best describes the kind of data collected in Milgram's (1963) study of obedience? [1]

A both quantitative and qualitative

B neither quantitative or qualitative

C quantitative

D qualitative

Your answer ☐

14 Which of these could be the result of Spearman's rho inferential statistical test? [1]

A 0.05

B 1.05

C –1.05

D 11.05

Your answer ☐

15 Which of these is a type of rating scale? [1]

A analytical analog

B bimodal binary

C semantic differential

D sequential similarity

Your answer ☐

SECTION B – Research design and response

Answer ALL the questions in Section B.

Mind changing?

Attitudes towards mental health and how it is treated have changed a lot over the years. However, despite this there are still differences in how people with physical, compared to mental illnesses are thought of and cared for. Psychologists want to study this further using the self-report method to investigate peoples' attitudes towards mental health.

16* Explain how you would use the self-report method to investigate attitudes towards mental illness.
You must refer to:

the use of a semi-structured interview

one question that uses a Likert scale

one question that would produce quantifiable data

You should use your own experience of practical activities to inform your response. [12]

17 Write a research aim for this study.

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_____

_____ **[2]**

18 (a) Identify the difference between a population and sample when conducting research.

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_____ **[1]**

(b) Name and describe the sampling technique you would use to obtain the participants for this study.

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_____ **[3]**

19 (a) Outline ONE strength of the use of closed questions in this study.

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_____ **[3]**

(b) Outline ONE weakness of the use of closed questions in this study.

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_____ **[3]**

20 Outline TWO ways that you would try to reduce the influence of demand characteristics in this self-report study.

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_____ **[6]**

21 Outline ONE weakness of the use of an interview rather than a written questionnaire in this study.

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_____ **[3]**

22 Outline ONE thing that may lower the usefulness of the findings from this study.

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_____ **[2]**

SECTION C – Data analysis and interpretation

Answer ALL the questions in Section C.

Knowing me, knowing you

How well do we know each other and how much does this reflect what we think of our self? To investigate this a psychologist asked ten people to rate their own level of extroversion on a scale of 0 ('not very extrovert at all') to 100 ('extremely extrovert') and then asked a close friend of each person to rate them using the same scale. The results are presented in the table below.

Participant	Self-rating of extroversion (0 to 100)	Friend's rating (0 to 100)
a	100	90
b	80	25
c	90	10
d	40	70
e	15	95
f	70	45
g	35	85
h	50	60
i	60	45
j	25	100

23 Outline TWO conclusions that can be made from the data collected in this study.

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_____ **[6]**

24 Draw a fully labelled scatter diagram displaying the data from this study.

[4]

25 Outline ONE strength and ONE weakness of the use of quantifiable data in this study.

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_____ **[6]**

26 **Explain why the Spearman's rho would be the appropriate non-parametric inferential statistical test to use to analyse the data from this study.**

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_____ **[3]**

27 **Given that the value of $d^2 = 270.5$, use the formula for Spearman's rho provided here to calculate the value of r_s. Show your workings.**

$$r_s = 1 - \frac{6\,(\sum d^2)}{n\,(n^2 - 1)}$$

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_____ **[3]**

28 Explain what $p>0.05$ would mean in the significance statement for the result of the Spearman's rho test from this study.

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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).

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