

AS Level Psychology

H167/01 Research methods

Monday 14 May 2018 – Afternoon

Time allowed: 1 hour 30 minutes

| You | must | have: |
|-----|------|-------|
|-----|------|-------|

- · a scientific or graphical calculator
- a ruler (cm/mm)



| 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 **75**.
- The marks for each question are shown in brackets [].
- Quality of extended response will be assessed in questions marked with an asterisk (*).
- This document consists of 16 pages.

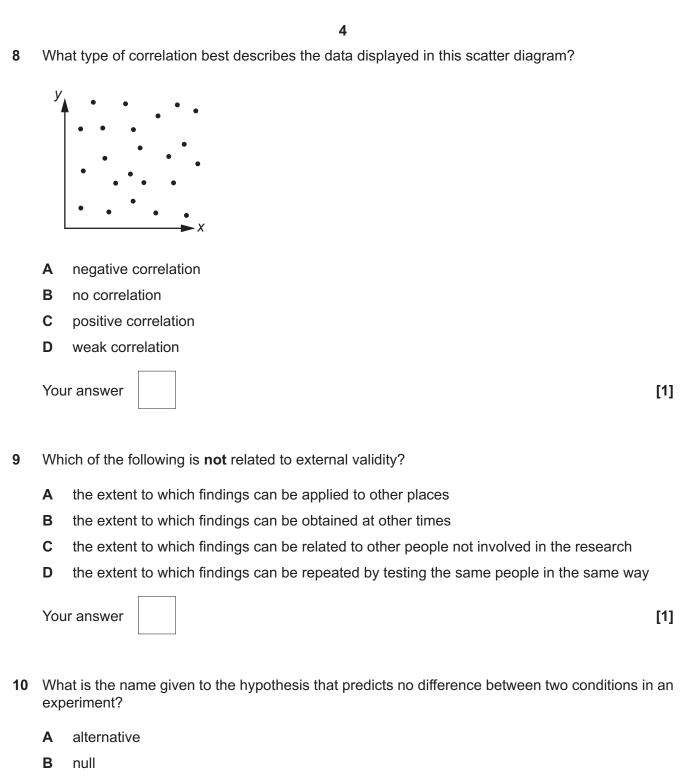
SECTION A – Multiple choice

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

| 1 | | What is the name given to the type of observation where one of the research team becomes a member of the group that is being observed? | | | |
|---|-----|--|----|--|--|
| | Α | covert | | | |
| | В | naturalistic | | | |
| | С | overt | | | |
| | D | participant | | | |
| | You | ır answer [1 |] | | |
| 2 | Wh | ich of these best describes an unstructured interview? | | | |
| | Α | one where there are no fixed number of questions | | | |
| | В | one where there are no open questions | | | |
| | С | one where there are no pre-planned questions | | | |
| | D | one where there are no time limits for respondents to answer | | | |
| | You | ır answer [1 |] | | |
| 3 | | ich experimental design was used in the Grant et al. study investigating context-depender mory? | ۱t | | |
| | Α | independent measures | | | |
| | В | laboratory experiment | | | |
| | С | matched participants | | | |
| | D | repeated measures | | | |
| | You | ır answer [1 |] | | |

| 4 | Which inferential statistical test requires at least ordinal level data to examine if there is a different between the data collected from different people in each condition of an experiment? | | | |
|---|---|--|--|--|
| | Α | Chi-square | | |
| | В | Mann-Whitney U | | |
| | С | Spearman's Rho | | |
| | D | Wilcoxon Signed Ranks | | |
| | You | r answer [1] | | |
| 5 | | at sampling technique was used to obtain high functioning adults with autism (HFA), or berger Syndrome (AS) in the Baron-Cohen et al. study? | | |
| | Α | opportunity | | |
| | В | self-selected | | |
| | С | random | | |
| | D | snowball | | |
| | You | r answer [1] | | |
| 6 | | at is the name of the sampling technique whereby each participant suggests another person to e part? | | |
| | Α | opportunity | | |
| | В | random | | |
| | С | self-selected | | |
| | D | snowball | | |
| | You | r answer [1] | | |
| 7 | | at is the name given to data that is collected directly by researchers themselves, rather than aining it from another person or source? | | |
| | Α | direct | | |
| | В | nominal | | |
| | С | primary | | |
| | D | secondary | | |
| | You | r answer [1] | | |

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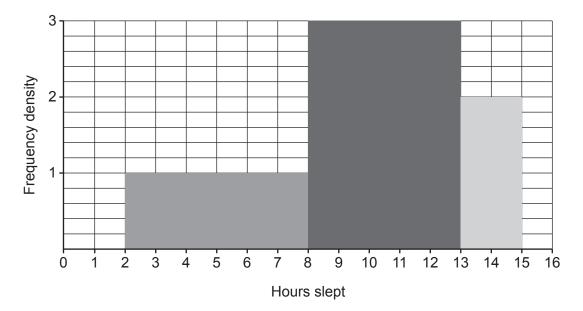
- C one-tailed
- D two-tailed

| Your answer | | | | | [| 1 |
|-------------|--|--|--|--|---|---|
|-------------|--|--|--|--|---|---|

| 11 | | ow is some data from three people in a study that recorded the reaction time in seconds ta olve a puzzle when background noise was being played: | aken |
|----|------|---|------|
| | 25.8 | 89, 16.21, 20.92 ~ 26, 16, 21 | |
| | Wh | at does the symbol (~) in between these sets of data mean? | |
| | Α | approximately equal to | |
| | В | equal to | |
| | С | proportional to | |
| | D | related to | |
| | You | ir answer | [1] |
| 12 | Wh | ich of the following is a feature of psychology as a science? | |
| | Α | augmentation | |
| | В | innovation | |
| | С | standardisation | |
| | D | titration | |
| | You | ır answer | [1] |

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- 13 A survey was conducted asking a group of students how much they slept each night.
 - (a) What type of display is used to present the data in the image below?



| | 1 | 1 | |
|---------------|----|-------|------|
| Α | na | r_CI | harl |
| $\overline{}$ | υa | I -CI | ıaıı |

- **B** histogram
- C line graph
- **D** scatter diagram

| Your answer | | [1] |
|-------------|--|-----|
|-------------|--|-----|

- (b) How many students reported sleeping between 8 and 12 hours?
- **A** 3
- **B** 12
- **C** 15
- **D** 25

Your answer [1]

- (c) What was the overall total sample size in this survey?
- **A** 15
- **B** 20
- **C** 25
- **D** 30

| Your answer | | [1] |
|-------------|--|-----|
|-------------|--|-----|

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SECTION B – Research design and response

Answer all the questions in Section B.

TV treats. People often eat snack foods, such as crisps, nuts and chocolate whilst watching TV. It may be that the more TV that is watched, the more snack foods are eaten. To investigate this a psychologist wants to use the correlation technique to see if there is a relationship between the amount of TV watched and snack foods eaten.

| 14 | Write a one-tailed alternative hypothesis for this study. | | | | | | |
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| | [3] | | | | | | |
| 15* | Explain how you would conduct a study using the correlation technique to investigate if there is a relationship between the amount of TV watched and snack foods eaten. Justify your decisions as part of your explanation. You must refer to: | | | | | | |
| | how the participants would be obtained how data for each of the measured variables would be obtained the control of at least one extraneous variable. | | | | | | |
| | You should use your own experience of practical activities to inform your response. | | | | | | |
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| [1] | |
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| | |
| of using the correlation technique in this study. | (a) |
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| | (b) Describe one weakness of using the correlation technique in this study. | |
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| | | [•] |
| 17 | Name the type of graph that would be used to display the data from a correlation analysis. | |
| | | [1] |
| | | |
| 18 | Explain what the term 'positive correlation' refers to. | |
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| | | |
| | | |
| | | [2] |
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| 19 | Explain how you could reduce the possibility of social desirability in this study. | |
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| | | [4] |

| 20 | Exp | lain what the term 'criterion validity' refers to in this study. |
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| | | [3] |
| 21 | | each of the following, identify the section (or sub-section) they would appear in when writing-up practical report for this study. |
| | (a) | Raw data |
| | | [1] |
| | (b) | Replicable details of how the study was conducted |
| | | [1] |
| | (c) | Names, dates and place of publication of work by other researchers |
| | | [1] |
| | (d) | An evaluation of the way the study was conducted |
| | | [1] |

SECTION C – Data analysis and interpretation

Answer all the questions in Section C.

Looks tasty? A psychologist wanted to investigate how expectations influence our perception of food. To do this she conducted an experiment where she presented one group of participants a bag of crisps labelled as 'premium range' in a bright and colourful packet. A different group of participants were presented with the same crisps but labelled as 'budget range' in a plain packet. After eating some of the crisps participants were asked to rate how tasty they were on a scale of 1 ('yuk') to 20 ('yummy').

| Ratings of how tas | sty crisps were (1–20) |
|---------------------------|--------------------------|
| Premium labelled brand | Budget labelled brand |
| 14 | 8 |
| 18 | 3 |
| 20 | 10 |
| 8 | 6 |
| 18 | 18 |
| 12 | 14 |
| 10 | 8 |
| 19 | 4 |
| 15 | 7 |
| 16 | 8 |
| 18 | 8 |
| 12 | 2 |

| 22 | (a) | Explain what quantitative data is. |
|----|-----|------------------------------------|
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| | | [2] |

| | (b) | Outline one advantage of having quantitative data rather than qualitative data in this study. |
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| | | [3] |
| 23 | (a) | Name the appropriate inferential statistical test to analyse the data in this study. Give reasons for your answer. |
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| | (b) | Explain how you would find the critical value to compare the calculated value to after conducting this test. |
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| | | [2] |

| | (c) | Outline one conclusion that could be made about this study if p<0.05 appeared in the significance statement after conducting this test. |
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| | | [4] |
| 24 | (a) | The range and standard deviation are both measures of dispersion. Outline one way that they are different. |
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| | | [2] |
| | (b) | Outline two conclusions that can be made about this experiment from the calculation of the range. |
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| | | [4] |

| 25 | Explain how the use of the independent measures design in this study could have affected the validity of the data collected. |
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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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