SPECIMEN MATERIAL THIRD SET

A-level PSYCHOLOGY (7182/2) Paper 2 Psychology in Context

2017

Morning

Time allowed: 2 hours

Materials

For this paper you may have:

• a calculator.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the bottom of this page.
- Answer **all** questions. You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 96.
- You will be assessed on your ability to:
 - use good English
 - organise information clearly
 - use specialist vocabulary where appropriate.

| Please write clearly, in block capita | als, to allow character computer recognition. |
|---------------------------------------|---|
| Centre number | Candidate number |
| Surname | |
| Forename(s) | |
| Candidate signature | |

| 02 | Which Shade | of the following sentences best describes Wundt's method e one box only. | of introspection? |
|-----|-----------------------------|---|---|
| | Introsp | pection involves | |
| | А | performing mental calculations. | 0 |
| | В | reporting present experience. | 0 |
| | С | describing events from the past. | 0 |
| | D | outlining hopes for the future. | 0 |
| | | | [1 mark] |
| 0 3 | Tim us financi and is | sed to run a family business. About two years ago, the bus ial difficulties. Tim's bank demanded repayment of a loan. very angry. | iness got into Tim lost the business |
| | Two d | efence mechanisms are denial and displacement. | |
| | Outline involve | e what is meant by denial and displacement and suggest he ed in Tim coping with his situation. | ow each could be |
| | | | [4 marks] |
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| 0 4 | Briefly evaluate defence mechanisms as a way of explaining human behavio | ur and |
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| | experience. | [4 marks] |
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| 0 5 | Outline what is meant by cognitive neuroscience and describe one practical | |
| | application of cognitive neuroscience. | [6 marks] |
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| Outling Roylov's roy | oorch into alaasia | al conditioning on | l docoribo bow olocoio |
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| conditioning might e | explain a child's fe | ar of school. | |
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| | Section B |
|-----|---|
| | Biopsychology |
| | Answer all questions in this section |
| | |
| 0 7 | Identify the two components of the peripheral nervous system, and explain two differences in their organisation and/or functions. [4 marks] |
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| 08 | Josie is twelve. Last year she was involved in a serious road accident and suffered head injuries that caused problems with speech and understanding language. Now, a year later, Josie has recovered most of her language abilities. |
| | Using your knowledge of plasticity and functional recovery of the brain after trauma, explain Josie's recovery. [4 marks] |
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| 09 | Whic imagi | h of the following, A, B, C, or D, is a feature of functional magnering? Shade one box only. | tic resonance |
|----|---------------|---|-------------------------------------|
| | A | Directly measuring the electrical activity of neurons using electrodes implanted in the brain. | 0 |
| | В | Directly measuring the electrical activity of neurons using electrodes on the scalp. | 0 |
| | С | Indirectly measuring the electrical activity of neurons by recording changes in brain blood flow. | 0 |
| | D | Indirectly measuring the electrical activity of neurons by recording changes in neurotransmitter release. | 0 |
| | | | [1 mark] |
| 10 | Identify | two glands that form part of the endocrinal system and outline t | heir functions. [4 marks] |
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| 1 1 | Discuss what research has shown about localisation of function in the brain. | [8 marks] |
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| been prescribed a drug for a mental illness. He looks on the internet but the drug but he does not understand the phrase 'synaptic ation of synaptic transmission in the brain to help Raoul understand work. | 12 F ta tr V h |
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| [3 marks] | |
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| | Section C | |
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| | Research methods | |
| | Answer all questions in this section | |
| | Read the item and then answer the questions that follow. | |
| | Following previous research indicating the social benefits of green space in urban areas, two psychology students decided to observe social behaviour in public spaces. They focused on two neighbouring towns, Greensville where most public spaces were planted with flowers and vegetables, and Brownton where most public spaces were paved with concrete. | |
| | The students compared the instances of considerate behaviours in the two towns. Considerate behaviour categories included putting litter in the bin, having a dog on a lead and riding a bike with care. | |
| | The observations were carried out in four different areas of a similar size in each town on weekdays between the hours of 4.30pm and 6.00pm. The students worked together to ensure inter-observer reliability, recording each target behaviour whenever it occurred. | |
| 13 | Should the hypothesis for this research be directional or non-directional? Explain answer. | your arks] |
| | | |
| 14 | Before the observation could begin, the students needed to operationalise the behaviour category 'riding a bike with care'. | |
| | Explain what is meant by operationalisation and suggest two ways in which 'riding bike with care' could have been operationalised. [4 ma | a arks] |
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| 1 5 | The students thought that having a dog on a lead was a useful measure of considerate behaviour because it had face validity. Explain what is meant by face validity in this context. |
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| | [3 marks] |
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| 1 6 | Identify and briefly outline two other types of validity in psychological research. [4 marks] |
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| 7 | Identify the b A Time B Pair s C Even | behaviour sampling n sampling sampling | nethod used by the stu | udents. Shade one box or | nly. |
|---|--|--|--|--------------------------------------|------|
| | A Time B Pairs C Even | sampling sampling | | 0 | |
| | B Pairs C Even | sampling | | | |
| | C Even | | | 0 | |
| | | t sampling | | | |
| | D Targe | et sampling | | | |
| | | , camping | | [1] | ma |
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| 8 | Explain how | inter-observer reliabi | lity could be ensured | by working as a pair. | |
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| | The data for | considerate behavior | urs is shown in Table | 1. | |
| | The data for | considerate behavior | urs is shown in Table | 1. | |
| | The data for Table 1 | considerate behavior | urs is shown in Table derate behaviours | 1. | |
| | The data for Table 1 | considerate behavior | urs is shown in Table derate behaviours Dog on lead | 1. Riding bike with care | |
| | The data for Table 1 | considerate behavior | urs is shown in Table derate behaviours Dog on lead | 1. Riding bike with care 19 | |

| ne students carried out a Chi-square test on their data. (plain why the Chi-square test was an appropriate test to use in this case. [3 marks] |
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| |
| order to interpret the results of the Chi-square test the students first needed to ork out the degrees of freedom. They used the following formula. |
| r = number of rows and c = number of columns alculate the degrees of freedom for the data in Table 1 . Show your workings. [2 marks] |
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2 2

The calculated value of Chi-square was 6.20. Referring to **Table 2** below, state whether or not the result of the Chi-square test is significant at the 0.05 level of significance. Justify your answer.

Table 2

| df | Levels of significance for a one-tailed test | | | | |
|----|--|------|-------|-------|--|
| | 0.10 | 0.05 | 0.025 | 0.01 | |
| | Levels of significance for a two-tailed test | | | | |
| | 0.20 | 0.10 | 0.05 | 0.02 | |
| 1 | 1.64 | 2.71 | 3.84 | 5.41 | |
| 2 | 3.22 | 4.60 | 5.99 | 7.82 | |
| 3 | 4.64 | 6.25 | 7.82 | 9.84 | |
| 4 | 5.99 | 7.78 | 9.49 | 11.67 | |

To be significant at the level shown the calculated value of Chi Square must be equal to or greater than the critical/table value

[3 marks]

| 2 3 | In the discussion section of their report of the investigation the students wanted to further discuss their results in relation to levels of significance. |
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| | Write a short paragraph the students could use to do this. |
| | [4 marks] |
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| 2 4 | As a follow-up to their observation the students decided to interview some of their peers about inconsiderate behaviours in their 6 th Form Centre. The interviews were recorded. |
|-----|--|
| | analysis and why content analysis would be appropriate in this case. [3 marks] |
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| 2 5 | Suggest one inconsiderate behaviour that the students might focus on in their content |
| | analysis. [1 mark] |
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2 6

Design an experiment to investigate the effect of indoor plants on mood in office workers. For your measure of mood you should devise a measure that would give data suitable for testing at the ordinal level of measurement.

In your answer you should provide details of:

- Design include reference to the experimental design, variables and controls
- Materials/Apparatus describe any special materials required
- Data analysis that could be used include reference to descriptive and inferential analysis.

Justify your choices.

[12 marks]

You may use this space to plan your answer.

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| END OF QUESTIONS |
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