

Write your name here

Surname

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Pearson Edexcel
Level 3 GCE

Centre Number

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Psychology

Advanced Subsidiary

Paper 1: Social and Cognitive Psychology

Monday 16 May 2016 – Afternoon

Time: 1 hour 30 minutes

Paper Reference

8PS0/01

You do not need any other materials.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 70.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- The list of formulae and critical value tables are printed at the start of this paper.
- Candidates may use a calculator.

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

P49827A

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PEARSON

FORMULAE AND STATISTICAL TABLES

Standard deviation (sample estimate)

$$\sqrt{\left(\frac{\sum(x - \bar{x})^2}{n - 1}\right)}$$

Spearman's rank correlation coefficient

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

Critical values for Spearman's rank

| n | Level of significance for a one-tailed test | | | | |
|----|---|-------|-------|-------|--------|
| | 0.05 | 0.025 | 0.01 | 0.005 | 0.0025 |
| | Level of significance for a two-tailed test | | | | |
| | 0.10 | 0.05 | 0.025 | 0.01 | 0.005 |
| 4 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 5 | 0.700 | 0.900 | 0.900 | 1.000 | 1.000 |
| 6 | 0.657 | 0.771 | 0.829 | 0.943 | 0.943 |
| 7 | 0.571 | 0.679 | 0.786 | 0.857 | 0.893 |
| 8 | 0.548 | 0.643 | 0.738 | 0.810 | 0.857 |
| 9 | 0.483 | 0.600 | 0.683 | 0.767 | 0.817 |
| 10 | 0.442 | 0.564 | 0.649 | 0.733 | 0.782 |
| 11 | 0.418 | 0.527 | 0.609 | 0.700 | 0.755 |
| 12 | 0.399 | 0.504 | 0.587 | 0.671 | 0.727 |
| 13 | 0.379 | 0.478 | 0.560 | 0.648 | 0.698 |
| 14 | 0.367 | 0.459 | 0.539 | 0.622 | 0.675 |
| 15 | 0.350 | 0.443 | 0.518 | 0.600 | 0.654 |
| 16 | 0.338 | 0.427 | 0.503 | 0.582 | 0.632 |
| 17 | 0.327 | 0.412 | 0.482 | 0.558 | 0.606 |
| 18 | 0.317 | 0.400 | 0.468 | 0.543 | 0.590 |
| 19 | 0.308 | 0.389 | 0.456 | 0.529 | 0.575 |
| 20 | 0.299 | 0.378 | 0.444 | 0.516 | 0.561 |
| 21 | 0.291 | 0.369 | 0.433 | 0.503 | 0.549 |
| 22 | 0.284 | 0.360 | 0.423 | 0.492 | 0.537 |
| 23 | 0.277 | 0.352 | 0.413 | 0.482 | 0.526 |
| 24 | 0.271 | 0.344 | 0.404 | 0.472 | 0.515 |
| 25 | 0.265 | 0.337 | 0.396 | 0.462 | 0.505 |
| 26 | 0.260 | 0.330 | 0.388 | 0.453 | 0.496 |
| 27 | 0.255 | 0.323 | 0.381 | 0.445 | 0.487 |
| 28 | 0.250 | 0.317 | 0.374 | 0.437 | 0.479 |
| 29 | 0.245 | 0.312 | 0.367 | 0.430 | 0.471 |
| 30 | 0.241 | 0.306 | 0.361 | 0.423 | 0.463 |

The calculated value must be equal to or exceed the critical value in this table for significance to be shown.

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Chi-squared distribution formula

$$X^2 = \sum \frac{(O-E)^2}{E}$$

$$df = (r - 1)(c - 1)$$

Critical values for chi-squared distribution

| Level of significance for a one-tailed test | | | | | | |
|---|-------|-------|-------|-------|--------|--------|
| | 0.10 | 0.05 | 0.025 | 0.01 | 0.005 | 0.0005 |
| Level of significance for a two-tailed test | | | | | | |
| df | 0.20 | 0.10 | 0.05 | 0.025 | 0.01 | 0.001 |
| 1 | 1.64 | 2.71 | 3.84 | 5.02 | 6.64 | 10.83 |
| 2 | 3.22 | 4.61 | 5.99 | 7.38 | 9.21 | 13.82 |
| 3 | 4.64 | 6.25 | 7.82 | 9.35 | 11.35 | 16.27 |
| 4 | 5.99 | 7.78 | 9.49 | 11.14 | 13.28 | 18.47 |
| 5 | 7.29 | 9.24 | 11.07 | 12.83 | 15.09 | 20.52 |
| 6 | 8.56 | 10.65 | 12.59 | 14.45 | 16.81 | 22.46 |
| 7 | 9.80 | 12.02 | 14.07 | 16.01 | 18.48 | 24.32 |
| 8 | 11.03 | 13.36 | 15.51 | 17.54 | 20.09 | 26.12 |
| 9 | 12.24 | 14.68 | 16.92 | 19.02 | 21.67 | 27.88 |
| 10 | 13.44 | 15.99 | 18.31 | 20.48 | 23.21 | 29.59 |
| 11 | 14.63 | 17.28 | 19.68 | 21.92 | 24.73 | 31.26 |
| 12 | 15.81 | 18.55 | 21.03 | 23.34 | 26.22 | 32.91 |
| 13 | 16.99 | 19.81 | 22.36 | 24.74 | 27.69 | 34.53 |
| 14 | 18.15 | 21.06 | 23.69 | 26.12 | 29.14 | 36.12 |
| 15 | 19.31 | 22.31 | 25.00 | 27.49 | 30.58 | 37.70 |
| 16 | 20.47 | 23.54 | 26.30 | 28.85 | 32.00 | 39.25 |
| 17 | 21.62 | 24.77 | 27.59 | 30.19 | 33.41 | 40.79 |
| 18 | 22.76 | 25.99 | 28.87 | 31.53 | 34.81 | 42.31 |
| 19 | 23.90 | 27.20 | 30.14 | 32.85 | 36.19 | 43.82 |
| 20 | 25.04 | 28.41 | 31.41 | 34.17 | 37.57 | 45.32 |
| 21 | 26.17 | 29.62 | 32.67 | 35.48 | 38.93 | 46.80 |
| 22 | 27.30 | 30.81 | 33.92 | 36.78 | 40.29 | 48.27 |
| 23 | 28.43 | 32.01 | 35.17 | 38.08 | 41.64 | 49.73 |
| 24 | 29.55 | 33.20 | 36.42 | 39.36 | 42.98 | 51.18 |
| 25 | 30.68 | 34.38 | 37.65 | 40.65 | 44.31 | 52.62 |
| 26 | 31.80 | 35.56 | 38.89 | 41.92 | 45.64 | 54.05 |
| 27 | 32.91 | 36.74 | 40.11 | 43.20 | 46.96 | 55.48 |
| 28 | 34.03 | 37.92 | 41.34 | 44.46 | 48.28 | 56.89 |
| 29 | 35.14 | 39.09 | 42.56 | 45.72 | 49.59 | 58.30 |
| 30 | 36.25 | 40.26 | 43.77 | 46.98 | 50.89 | 59.70 |
| 40 | 47.27 | 51.81 | 55.76 | 59.34 | 63.69 | 73.40 |
| 50 | 58.16 | 63.17 | 67.51 | 71.42 | 76.15 | 86.66 |
| 60 | 68.97 | 74.40 | 79.08 | 83.30 | 88.38 | 99.61 |
| 70 | 79.72 | 85.53 | 90.53 | 95.02 | 100.43 | 112.32 |

The calculated value must be equal to or exceed the critical value in this table for significance to be shown.



Mann-Whitney U test formulae

$$U_a = n_a n_b + \frac{n_a(n_a+1)}{2} - \sum R_a$$

$$U_b = n_a n_b + \frac{n_b(n_b+1)}{2} - \sum R_b$$

(U is the smaller of U_a and U_b)

Critical values for the Mann-Whitney U test

| | | N_b | | | | | | | | | | | | | | | |
|---|----|-------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|----|
| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| N_a | | | | | | | | | | | | | | | | | |
| $p \leq 0.05$ (one-tailed), $p \leq 0.10$ (two-tailed) | | | | | | | | | | | | | | | | | |
| 5 | 4 | 5 | 6 | 8 | 9 | 11 | 12 | 13 | 15 | 16 | 18 | 19 | 20 | 22 | 23 | 25 | |
| 6 | 5 | 7 | 8 | 10 | 12 | 14 | 16 | 17 | 19 | 21 | 23 | 25 | 26 | 28 | 30 | 32 | |
| 7 | 6 | 8 | 11 | 13 | 15 | 17 | 19 | 21 | 24 | 26 | 28 | 30 | 33 | 35 | 37 | 39 | |
| 8 | 8 | 10 | 13 | 15 | 18 | 20 | 23 | 26 | 28 | 31 | 33 | 36 | 39 | 41 | 44 | 47 | |
| 9 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 | 51 | 54 | |
| 10 | 11 | 14 | 17 | 20 | 24 | 27 | 31 | 34 | 37 | 41 | 44 | 48 | 51 | 55 | 58 | 62 | |
| 11 | 12 | 16 | 19 | 23 | 27 | 31 | 34 | 38 | 42 | 46 | 50 | 54 | 57 | 61 | 65 | 69 | |
| 12 | 13 | 17 | 21 | 26 | 30 | 34 | 38 | 42 | 47 | 51 | 55 | 60 | 64 | 68 | 72 | 77 | |
| 13 | 15 | 19 | 24 | 28 | 33 | 37 | 42 | 47 | 51 | 56 | 61 | 65 | 70 | 75 | 82 | 84 | |
| 14 | 16 | 21 | 26 | 31 | 36 | 41 | 46 | 51 | 56 | 61 | 66 | 71 | 77 | 82 | 87 | 92 | |
| 15 | 18 | 23 | 28 | 33 | 39 | 44 | 50 | 55 | 61 | 66 | 72 | 77 | 83 | 88 | 94 | 100 | |
| 16 | 19 | 25 | 30 | 36 | 42 | 48 | 54 | 60 | 65 | 71 | 77 | 83 | 89 | 95 | 101 | 107 | |
| 17 | 20 | 26 | 33 | 39 | 45 | 51 | 57 | 64 | 70 | 77 | 83 | 89 | 96 | 102 | 109 | 115 | |
| 18 | 22 | 28 | 35 | 41 | 48 | 55 | 61 | 68 | 75 | 82 | 88 | 95 | 102 | 109 | 116 | 123 | |
| 19 | 23 | 30 | 37 | 44 | 51 | 58 | 65 | 72 | 80 | 87 | 94 | 101 | 109 | 116 | 123 | 130 | |
| 20 | 25 | 32 | 39 | 47 | 54 | 62 | 69 | 77 | 84 | 92 | 100 | 107 | 115 | 123 | 130 | 138 | |

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| N_a | N_b | | | | | | | | | | | | | | | |
|---|-------|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| $p \leq 0.01$ (one-tailed), $p \leq 0.02$ (two-tailed) | | | | | | | | | | | | | | | | |
| 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 6 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 11 | 12 | 13 | 15 | 16 | 18 | 19 | 20 | 22 |
| 7 | 3 | 4 | 6 | 7 | 9 | 11 | 12 | 14 | 16 | 17 | 19 | 21 | 23 | 24 | 26 | 28 |
| 8 | 4 | 6 | 7 | 9 | 11 | 13 | 15 | 17 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 |
| 9 | 5 | 7 | 9 | 11 | 14 | 16 | 18 | 21 | 23 | 26 | 28 | 31 | 33 | 36 | 38 | 40 |
| 10 | 6 | 8 | 11 | 13 | 16 | 19 | 22 | 24 | 27 | 30 | 33 | 36 | 38 | 41 | 44 | 47 |
| 11 | 7 | 9 | 12 | 15 | 18 | 22 | 25 | 28 | 31 | 34 | 37 | 41 | 44 | 47 | 50 | 53 |
| 12 | 8 | 11 | 14 | 17 | 21 | 24 | 28 | 31 | 35 | 38 | 42 | 46 | 49 | 53 | 56 | 60 |
| 13 | 9 | 12 | 16 | 20 | 23 | 27 | 31 | 35 | 39 | 43 | 47 | 51 | 55 | 59 | 63 | 67 |
| 14 | 10 | 13 | 17 | 22 | 26 | 30 | 34 | 38 | 43 | 47 | 51 | 56 | 60 | 65 | 69 | 73 |
| 15 | 11 | 15 | 19 | 24 | 28 | 33 | 37 | 42 | 47 | 51 | 56 | 61 | 66 | 70 | 75 | 80 |
| 16 | 12 | 16 | 21 | 26 | 31 | 36 | 41 | 46 | 51 | 56 | 61 | 66 | 71 | 76 | 82 | 87 |
| 17 | 13 | 18 | 23 | 28 | 33 | 38 | 44 | 49 | 55 | 60 | 66 | 71 | 77 | 82 | 88 | 93 |
| 18 | 14 | 19 | 24 | 30 | 36 | 41 | 47 | 53 | 59 | 65 | 70 | 76 | 82 | 88 | 94 | 100 |
| 19 | 15 | 20 | 26 | 32 | 38 | 44 | 50 | 56 | 63 | 69 | 75 | 82 | 88 | 94 | 101 | 107 |
| 20 | 16 | 22 | 28 | 34 | 40 | 47 | 53 | 60 | 67 | 73 | 80 | 87 | 93 | 100 | 107 | 114 |

| N_a | N_b | | | | | | | | | | | | | | | |
|--|-------|---|---|----|----|----|----|----|----|----|----|----|----|----|-----|-----|
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| $p \leq 0.025$ (one-tailed), $p \leq 0.05$ (two-tailed) | | | | | | | | | | | | | | | | |
| 5 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 11 | 12 | 13 | 14 | 15 | 17 | 18 | 19 | 20 |
| 6 | | 5 | 6 | 8 | 10 | 11 | 13 | 14 | 16 | 17 | 19 | 21 | 22 | 24 | 25 | 27 |
| 7 | | | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 |
| 8 | | | | 13 | 15 | 17 | 19 | 22 | 24 | 26 | 29 | 31 | 34 | 36 | 38 | 41 |
| 9 | | | | | 17 | 20 | 23 | 26 | 28 | 31 | 34 | 37 | 39 | 42 | 45 | 48 |
| 10 | | | | | | 23 | 26 | 29 | 33 | 36 | 39 | 42 | 45 | 48 | 52 | 55 |
| 11 | | | | | | | 30 | 33 | 37 | 40 | 44 | 47 | 51 | 55 | 58 | 62 |
| 12 | | | | | | | | 37 | 41 | 45 | 49 | 53 | 57 | 61 | 65 | 69 |
| 13 | | | | | | | | | 45 | 50 | 54 | 59 | 63 | 67 | 72 | 76 |
| 14 | | | | | | | | | | 55 | 59 | 64 | 67 | 74 | 78 | 83 |
| 15 | | | | | | | | | | | 64 | 70 | 75 | 80 | 85 | 90 |
| 16 | | | | | | | | | | | | 75 | 81 | 86 | 92 | 98 |
| 17 | | | | | | | | | | | | | 87 | 93 | 99 | 105 |
| 18 | | | | | | | | | | | | | | 99 | 106 | 112 |
| 19 | | | | | | | | | | | | | | | 113 | 119 |
| 20 | | | | | | | | | | | | | | | | 127 |



P 4 9 8 2 7 A 0 5 2 4

| N_a | N_b | | | | | | | | | | | | | | | |
|--|-------|---|---|---|----|----|----|----|----|----|----|----|----|----|----|-----|
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| $p \leq 0.005$ (one-tailed), $p \leq 0.01$ (two-tailed) | | | | | | | | | | | | | | | | |
| 5 | 0 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 6 | | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 10 | 11 | 12 | 13 | 15 | 16 | 17 | 18 |
| 7 | | | 4 | 6 | 7 | 9 | 10 | 12 | 13 | 15 | 16 | 18 | 19 | 21 | 22 | 24 |
| 8 | | | | 7 | 9 | 11 | 13 | 15 | 17 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| 9 | | | | | 11 | 13 | 16 | 18 | 20 | 22 | 24 | 27 | 29 | 31 | 33 | 36 |
| 10 | | | | | | 16 | 18 | 21 | 24 | 26 | 29 | 31 | 34 | 37 | 39 | 42 |
| 11 | | | | | | | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 |
| 12 | | | | | | | | 27 | 31 | 34 | 37 | 41 | 44 | 47 | 51 | 54 |
| 13 | | | | | | | | | 34 | 38 | 42 | 45 | 49 | 53 | 57 | 60 |
| 14 | | | | | | | | | | 42 | 46 | 50 | 54 | 48 | 63 | 67 |
| 15 | | | | | | | | | | | 51 | 55 | 60 | 64 | 69 | 73 |
| 16 | | | | | | | | | | | | 60 | 65 | 70 | 74 | 79 |
| 17 | | | | | | | | | | | | | 70 | 75 | 81 | 86 |
| 18 | | | | | | | | | | | | | | 81 | 87 | 92 |
| 19 | | | | | | | | | | | | | | | 93 | 99 |
| 20 | | | | | | | | | | | | | | | | 105 |

The calculated value must be equal to or less than the critical value in this table for significance to be shown.

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Wilcoxon Signed Ranks test process

- Calculate the difference between two scores by taking one from the other
- Rank the differences giving the smallest difference Rank 1

Note: do not rank any differences of 0 and when adding the number of scores, do not count those with a difference of 0, and ignore the signs when calculating the difference

- Add up the ranks for positive differences
- Add up the ranks for negative differences
- T is the figure that is the smallest when the ranks are totalled (may be positive or negative)
- N is the number of scores left, ignore those with 0 difference

Critical values for the Wilcoxon Signed Ranks test

| <i>n</i> | Level of significance for a one-tailed test | | |
|----------|---|-------|------|
| | 0.05 | 0.025 | 0.01 |
| | Level of significance for a two-tailed test | | |
| | 0.1 | 0.05 | 0.02 |
| N=5 | 0 | - | - |
| 6 | 2 | 0 | - |
| 7 | 3 | 2 | 0 |
| 8 | 5 | 3 | 1 |
| 9 | 8 | 5 | 3 |
| 10 | 11 | 8 | 5 |
| 11 | 13 | 10 | 7 |
| 12 | 17 | 13 | 9 |

The calculated value must be equal to or less than the critical value in this table for significance to be shown.



SECTION A: SOCIAL PSYCHOLOGY

Answer ALL questions.

1 Define the concept of 'agentic state' as part of agency theory.

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(Total for Question 1 = 2 marks)

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2 David and Sarah were using their mobile telephones during a lesson. Their teacher asked them to put the mobile telephones away. David immediately put his in his bag, but Sarah refused.

(a) Using your knowledge of social impact theory, identify **two** reasons why David followed the teacher's instructions.

(2)

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(b) Using your knowledge of obedience, explain **one** factor that may account for Sarah's refusal to put her mobile telephone away.

(2)

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(Total for Question 2 = 4 marks)

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(Total for Question 3 = 8 marks)



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(Total for Question 5 = 8 marks)

TOTAL FOR SECTION A = 29 MARKS



SECTION B: COGNITIVE PSYCHOLOGY

Answer ALL questions.

6 Jared decided to investigate how many household objects could be recalled by participants when rehearsal was prevented. He conducted a laboratory experiment where he displayed 25 household objects to the participants for one minute. Jared then asked the participants to count backwards from 20 before they attempted to recall as many household objects as they could.

(a) State a fully operationalised directional (one-tailed) hypothesis for Jared's experiment.

(3)

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(b) Describe an appropriate participant design that Jared could use for this experiment.

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(c) **Table 1** shows the results of Jared's experiment.

| | Condition 1 | Condition 2 |
|--------------------|---|---|
| Participant | Number of items recalled when rehearsal is not prevented | Number of items recalled when rehearsal is prevented |
| A | 5 | 4 |
| B | 4 | 3 |
| C | 6 | 4 |
| D | 2 | 2 |
| E | 5 | 4 |
| F | 3 | 3 |
| G | 10 | 6 |
| H | 6 | 4 |
| I | 2 | 2 |
| J | 2 | 2 |
| K | 7 | 5 |
| L | 3 | 1 |
| TOTAL | 55 | 40 |

Table 1

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Calculate the measures of central tendency for the data Jared collected for participant recall in **Condition 1** and complete **Table 2** below with your answers.

(3)

| Mean number of items recalled when rehearsal is not prevented (to two decimal places) | Median number of items recalled when rehearsal is not prevented | Mode number of items recalled when rehearsal is not prevented |
|---|---|---|
| | | |

Table 2

SPACE FOR CALCULATIONS

(Total for Question 6 = 9 marks)



8 Baddeley and Hitch (1974) claimed that memory was composed of separate systems that each have a function in processing and storing cognitive information. They refer to this as the working memory model.

(a) Explain the function of the 'central executive' in this model.

(3)

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(b) Explain **one** strength and **one** weakness of the working memory model.

(4)

Strength

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Weakness

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(c) Baddeley (1966b) conducted a laboratory experiment to investigate the influence of acoustic and semantic similarity of words on long-term memory.

Evaluate Baddeley's (1966b) study.

(8)

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(Total for Question 8 = 15 marks)

TOTAL FOR SECTION B = 29 MARKS



SECTION C

- 9 Ed and Najeeb are researching the effects of individual tutorials on student wellbeing. Ed wants to carry out a laboratory experiment and collect quantitative data, whereas Najeeb feels they should use interviews to collect qualitative data.

Evaluate the use of quantitative and qualitative data when conducting research into psychological issues. You must make reference to the context in your answer.

(12)

Dotted lines for writing the answer.

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(Total for Question 9 = 12 marks)

**TOTAL FOR SECTION C = 12 MARKS
TOTAL FOR PAPER = 70 MARKS**

