Please check the examination details below before entering your candidate information

Candidate surname | Other names

Centre Number | Candidate Number

Pearson Edexcel International Advanced Level

Thursday 11 May 2023

Afternoon (Time: 1 hour 30 minutes) | **Paper reference** **WPS01/01**

Psychology
International Advanced Subsidiary
UNIT 1: Social and Cognitive Psychology

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 64.
- 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 statistical 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 ▶

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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

	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				
N	0.10	0.05	0.025	0.01	0.005
5	0.900	1.000	1.000	1.000	1.000
6	0.829	0.886	0.943	1.000	1.000
7	0.714	0.786	0.893	0.929	0.964
8	0.643	0.738	0.833	0.881	0.905
9	0.600	0.700	0.783	0.833	0.867
10	0.564	0.648	0.745	0.794	0.830
11	0.536	0.618	0.709	0.755	0.800
12	0.503	0.587	0.678	0.727	0.769
13	0.484	0.560	0.648	0.703	0.747
14	0.464	0.538	0.626	0.679	0.723
15	0.446	0.521	0.604	0.654	0.700
16	0.429	0.503	0.582	0.635	0.679
17	0.414	0.485	0.566	0.615	0.662
18	0.401	0.472	0.550	0.600	0.643
19	0.391	0.460	0.535	0.584	0.628
20	0.380	0.447	0.520	0.570	0.612
21	0.370	0.435	0.508	0.556	0.599
22	0.361	0.425	0.496	0.544	0.586
23	0.353	0.415	0.486	0.532	0.573
24	0.344	0.406	0.476	0.521	0.562
25	0.337	0.398	0.466	0.511	0.551
26	0.331	0.390	0.457	0.501	0.541
27	0.324	0.382	0.448	0.491	0.531
28	0.317	0.375	0.440	0.483	0.522
29	0.312	0.368	0.433	0.475	0.513
30	0.306	0.362	0.425	0.467	0.504

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

Chi-squared distribution formula

$$X^2 = \sum \frac{(O-E)^2}{E} \qquad df = (r-1)(c-1)$$

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.

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

	Level of significance for a one-tailed test		
	0.05	0.025	0.01
	Level of significance for a two-tailed test		
n	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. Write your answers in the spaces provided.

1   In your studies of social psychology, you will have learned about sample selection and sampling techniques.

(a) State, using an example, what is meant by an opportunity sampling technique.

(2)

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(b) Describe what is meant by a stratified sampling technique.

(2)

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(Total for Question 1 = 4 marks)

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2 In your studies of social psychology, you will have learned about explanations of obedience, including social power theory and agency theory.

(a) Explain **one** strength of social power theory as an explanation of obedience.

(2)

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(b) Explain **one** strength and **one** weakness of agency theory as an explanation of obedience.

(4)

Strength

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Weakness

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(Total for Question 2 = 6 marks)

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3 In your studies of social psychology, you will have conducted a practical investigation.

(a) State the aim of your social psychology practical investigation.

(1)

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(b) Describe how you constructed the questionnaire for your social psychology practical investigation.

(3)

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(c) Explain **one** improvement you could make to how you gathered the qualitative data in your social psychology practical investigation.

(2)

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(d) Explain **one** improvement you could make to how you analysed the qualitative data in your social psychology practical investigation.

(2)

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(Total for Question 3 = 8 marks)

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4 Assess how factors such as individual differences, situation and culture can affect conformity.

(8)

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(Total for Question 4 = 8 marks)

TOTAL FOR SECTION A = 26 MARKS

SECTION B

Cognitive Psychology

Answer ALL questions. Write your answers in the spaces provided.

5 In your studies of cognitive psychology, you will have learned about features of working memory, including the episodic buffer.

(a) State **two** features of the episodic buffer.

(2)

1 ....

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2 ....

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(b) Explain **two** weaknesses of the working memory model proposed by Baddeley and Hitch (1974).

(4)

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(Total for Question 5 = 6 marks)

P 7 1 8 3 6 A 0 1 3 2 4

6 Max wanted to test whether the accuracy of recall of an original stimulus would decrease after additional information was provided.

Max gathered eight participants and gave each participant a photograph of a busy city street.

- Condition A: after looking at the photograph for 15 minutes, each participant was asked to write down as much as they could recall about the photograph.

- Condition B: the same participants were then shown a 5-minute video clip of the same city street. Each participant was then asked to write down as much as they could recall about the original photograph.

Max recorded the number of details that were recalled correctly.

The results are shown in **Table 1**.

Participant	Condition A Number of details that were recalled correctly	Condition B Number of details that were recalled correctly
A	26	20
B	14	15
C	28	21
D	19	9
E	21	21
F	26	13
G	20	14
H	24	25

Table 1

(a) Calculate the mode for the number of details that were recalled correctly in **Condition A**.

(1)

Space for calculations

Mode ....

(b) Calculate the range for the number of details that were recalled correctly in **Condition B**.

(1)

Space for calculations

Range ....

(c) Complete **Table 2** and calculate the Wilcoxon Signed Ranks test for Max's data.

The formulae and statistical tables can be found at the front of this paper.

You **must** show your calculations.

(4)

Participant	Condition A Number of details that were recalled correctly	Condition B Number of details that were recalled correctly	Difference	Ranked difference
A	26	20		
B	14	15		
C	28	21		
D	19	9		
E	21	21		
F	26	13		
G	20	14		
H	24	25		

Table 2

Space for calculations

T value ....

(Total for Question 6 = 6 marks)

7 Bashir wants to investigate the duration of short-term memory. He intends to use a field experiment for his investigation.

(a) Describe a task that Bashir could give his participants to test the duration of short-term memory.

(2)

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(b) Explain **two** weaknesses of Bashir using a field experiment to investigate the duration of short-term memory.

(4)

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(Total for Question 7 = 6 marks)

8 Smaragda has started a new job and needs to learn to use the new computer system. She is struggling to remember the correct icons to click to access different features of the computer system.

Smaragda had read the instruction manual on her first day of work but cannot remember all the instructions that were contained in it. She has taken the instruction manual home to read again. Smaragda has decided to access the work computer system from home while she has the instruction manual.

Discuss how the multi-store model of memory (Atkinson and Shiffrin, 1968) could be used to help Smaragda remember how to use the new computer system.

You must make reference to the context in your answer.

(8)

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(Total for Question 8 = 8 marks)

TOTAL FOR SECTION B = 26 MARKS

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SECTION C

Answer the question in this section. Write your answer in the space provided.

9 In your studies of social psychology, you will have learned about one of the following contemporary studies in detail:

- Yi Huang et al. (2014)

- Huan et al. (2014).

Evaluate your chosen contemporary study.

(12)

Chosen study

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(Total for Question 9 = 12 marks)

TOTAL FOR SECTION C = 12 MARKS
TOTAL FOR PAPER = 64 MARKS

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