Please check the examination details below before entering your candidate information

Candidate surname	Other names

Centre Number | Candidate Number

Pearson Edexcel International Advanced Level

Tuesday 10 June 2025

Afternoon (Time: 2 hours)

Paper reference **WPS04/01**

Psychology

International Advanced Level

UNIT 4: Clinical Psychology and Psychological Skills

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 96.
- 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.
- Calculators may be used.

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.

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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.

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SECTION A

Clinical Psychology

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

1 In your studies of clinical psychology, you will have conducted a practical investigation.

(a) Describe the procedure you used in your clinical psychology practical investigation.

(4)

(b) Describe the results of your clinical psychology practical investigation.

(2)

(Total for Question 1 = 6 marks)

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2 In your studies of clinical psychology, you will have learned about cultural issues in the diagnosis of mental health disorders.

(a) Explain **one** reason why culture may have an influence on the diagnosis of mental health disorders.

(2)

(b) Explain **one** reason why culture may not have an influence on the diagnosis of mental health disorders.

(2)

(Total for Question 2 = 4 marks)

3 In your studies of unipolar depression **or** anorexia nervosa, you will have learned about one of the following contemporary studies in detail:

- Hans and Hiller (2013)
- Ma, Quan and Liu (2014)
- Becker et al. (2002)
- Reichel et al. (2014)

(a) Describe the procedure for your chosen contemporary study.

(4)

Chosen contemporary study

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(b) Explain **two** strengths of your chosen contemporary study.

(4)

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(Total for Question 3 = 8 marks)

4 Varsha has been experiencing hallucinations and delusions. She also struggled to leave the house. Varsha was admitted to hospital where she was diagnosed with schizophrenia. Varsha was given drug therapy by the doctors to help reduce her symptoms.

Varsha's symptoms are now controlled, and she is being discharged from hospital. The doctors have prescribed Varsha the same drug therapy which she has to take once a day.

(a) Explain **two** strengths of Varsha using drug therapy for her schizophrenia.

(4)

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(b) Explain **two** weaknesses of Varsha using drug therapy for her schizophrenia.

(4)

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(Total for Question 4 = 8 marks)

5 In your studies of clinical psychology, you will have learned about one of the following mental health disorders in detail:

- Unipolar depression
- Anorexia nervosa

Analyse **one** non-biological explanation for your chosen mental health disorder.

(6)

Chosen mental health disorder

(Total for Question 5 = 6 marks)

TOTAL FOR SECTION A = 32 MARKS

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SECTION B

Clinical Psychology

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

6 Evaluate whether the function of neurotransmitters is a complete explanation of schizophrenia.

(16)

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(Total for Question 6 = 16 marks)

TOTAL FOR SECTION B = 16 MARKS

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SECTION C

Psychological Skills

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

7 Leena is researching aggression. She has decided to use an fMRI brain scanning technique to research the functions of the brain (brain activity) when processing emotional information. Leena gathered a sample of eight adults and asked them to complete a questionnaire to rate their aggressiveness.

Leena then planned to show them aggressive and non-aggressive stimuli during an fMRI brain scan and record the responsiveness of their amygdala.

(a) Describe how Leena could have used an fMRI brain scan for her research.

(3)

(b) Explain **one** strength of Leena using an fMRI brain scan for her research.

(2)

Leena wanted to see if there was a relationship between amygdala responsiveness and the self-rated aggression scores. She totalled the scores from the questionnaires, with a score of 0 being no aggression and 10 being high levels of aggression. Amygdala responsiveness was scored from 0, very little activity, to 10, high activity.

(c) Calculate the Spearman's rank correlation coefficient for the data gathered by Leena by completing **Table 1**.

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

You must show your working out and give your answer to three decimal places.

(4)

Self-rated aggression scores	**Rank 1**	**Amygdala responsiveness**	**Rank 2**	***d***	***d*²**
2	1	7	7		
5	3	4	4		
6	4.5	4	4		
8	7.5	2	1		
3	2	8	8		
7	6	3	2		
6	4.5	4	4		
8	7.5	5	6		
				Total for *d*²	

Table 1

Space for calculations

Spearman's rank correlation coefficient .....

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(d) Determine, with reference to the data, whether Leena's results are significant at $P \leqslant 0.05$ for a two-tailed (non-directional) test.

The critical values table can be found at the front of this paper.

(1)

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(Total for Question 7 = 10 marks)

8 Explain **one** strength and **one** weakness of using an independent groups experimental/research design.

Strength

Weakness

(Total for Question 8 = 4 marks)

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9 Shardul is investigating whether people feel happier on sunny days compared to rainy days. He decides to use a semi-structured interview to gather his data.

(a) Describe how Shardul can use a semi-structured interview to gather quantitative and qualitative data for his investigation.

(4)

(b) Explain **one** reason why Shardul chose to gather primary data for his investigation.

(2)

(Total for Question 9 = 6 marks)

TOTAL FOR SECTION C = 20 MARKS

SECTION D

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

10 One key question for society is whether children should learn a second language in the early years of their development.

Scovel (1988) explained that the 'critical period hypothesis' is the idea that language is best learned during a child's early years, and that after about 12 years old, there are difficulties in the ability to acquire a new language.

However, others have suggested that language is acquired through a process of rewards and the use of imitation, which encourage the correct use of language. This applies to the first and second languages people learn throughout their lives. Individuals can learn a second language through the use of online programs and apps.

Discuss the key question of whether children should learn a second language in the early years of their development. You should use concepts, theories and/or research studied in your psychology course.

You **must** make reference to the context in your answer.

(8)

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(Total for Question 10 = 8 marks)

TOTAL FOR SECTION D = 8 MARKS

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SECTION E

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

11 Assess whether nature is more influential on human behaviour than nurture.

(20)

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(Total for Question 11 = 20 marks)

TOTAL FOR SECTION E = 20 MARKS
TOTAL FOR PAPER = 96 MARKS

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