

Please write clearly in block capitals.

Centre number

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I declare this is my own work.

INTERNATIONAL A-LEVEL PSYCHOLOGY

Unit 3 Advanced Topics and Research Methods 2

Wednesday 20 January 2021 07:00 GMT Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a calculator, which you are expected to use where appropriate.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top 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.
- All working must be shown.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- 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 90.

For Examiner's Use	
Section	Mark
A	
B	
C	
TOTAL	



Section A: Psychology of SleepAnswer **all** questions in the spaces provided.**0 1**

Anum is 20 years old and works as a flight attendant. She regularly works on two flights: a 12-hour international flight between France and Singapore and a one hour internal flight within the UK.

0 1 . 1

Use your knowledge of psychology to briefly explain why Anum is more likely to experience jet lag after working on the international flight rather than on the internal flight.

[2 marks]

0 1 . 2

Anum tends to experience worse jet lag than other flight attendants on the same international flight. Identify and briefly explain **one** possible reason for this.

[3 marks]

0 1 . 3

Use your knowledge of psychology to briefly explain **one** way that Anum might be able to reduce her jet lag.

[2 marks]



Section B: Schizophrenia

Answer **all** questions in the spaces provided.

0 5

Explain how gender bias might reduce the reliability in the diagnosis of schizophrenia. **[3 marks]**

0 6 . 1

Describe the dopamine hypothesis as an explanation for schizophrenia. **[4 marks]**



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box*

30




Section C: Research Methods 2


Answer **all** questions in the spaces provided.

Only **one** answer per question is allowed.

For each question completely fill in the circle alongside the appropriate answer.

CORRECT METHOD WRONG METHODS

If you want to change your answer you must cross out your original answer as shown. 

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown. 

A researcher wanted to investigate if there was a relationship between aggression and the time spent watching television. She asked 10 participants to keep a diary for one week. At the end of each day, each participant recorded:

- the total number of hours they had spent watching television that day
- their feelings of aggression for that day on a scale of 1 to 10, where the higher the score the greater the feelings of aggression.

0 8

Write a suitable hypothesis for this study.

[3 marks]

Turn over for the next question

Turn over ►



0	9
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Explain why a correlation is a more appropriate method than an experiment for the researcher to use in this case.

[3 marks]



1 0The results for participant 1 are shown in **Table 1** below.**Table 1**

Aggression scores and number of hours spent watching television each day for participant 1.

Day	Aggression score (out of 10)	Number of hours spent watching television
1	6	3
2	6	3
3	4	2
4	1	1
5	3	3
6	10	9
7	2	0

1 0 . 1Use the data in **Table 1** to calculate the median aggression score for participant 1. Show your workings.**[2 marks]**

1 0 . 2Use the data in **Table 1** to calculate the range of the number of hours watching television for participant 1. Show your workings.**[2 marks]**

Turn over for the next question**Turn over ►**

1	1
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Explain **one** reason why it is more appropriate to use the range rather than the standard deviation as a measure of dispersion for the number of hours spent watching television.

[3 marks]

1	2
---	---

The researcher calculated the median aggression score and the median number of hours spent watching television for each participant and plotted them onto a scattergram. The scattergram suggested a positive correlation.

Explain what having a positive correlation means in relation to this study.

[2 marks]



1 3

The researcher then used a statistical test on the results.

Explain the purpose of statistical testing.

[3 marks]

1 4

With reference to level of measurement, explain why using Spearman's rho test would be suitable to analyse the results of this study.

[2 marks]

1 5

When reporting the study, the researcher wrote an abstract. Which **one** of the following would **not** typically be found in an abstract?

Shade **one** box only.

[1 mark]**A** Aim**B** Conclusions**C** Evaluation**D** Findings**Turn over ►**

1 6

The researcher found a well-respected questionnaire that measured aggression. She decided to give this to the participants in her original study as an additional measure of aggression.

Explain how the researcher could use a correlation with both measures of aggression to assess the concurrent validity of the aggression scores from the participant's diaries.

[4 marks]

1 7

The researcher found that one participant had a very high median aggression score and a very low median number of hours spent watching television.

Explain how the researcher could use a case study to investigate this finding further.

[3 marks]



1 8

Briefly explain **one** limitation of the use of case studies in psychology.

[2 marks]

30

END OF QUESTIONS



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