Feteerna Allavoir:



PSYCHOLOGY ATAR – YEAR 12 2024 Unit 4 Task 7: Sleep Validation

Syllabus points

Applications of psychology to health

Ethical guidelines and practices for psychological research

Formulating research

Methodology

Data collection

Drawing conclusions

Evaluation of research

Conditions

Reading time: 5 minutes Working time: 40 minutes

Task Weighting

• 7%

Structure of this paper

Section	Number of questions available	Number of questions to be attempted	Suggested working time (minutes)	Marks	Score
Section One: Short Answer	5	5	40	41	
			Total	41	

Smodged instrud of

between steep and durice usage.

(41 marks)

Part B

Formulate an evidence-based conclusion that explains your findings using psychological theories and concepts.

313 minites (6 marks)

It can be seen that limitation of acrice usage prior to sleep overall incremes skep quality (hours and cognitive functions in adolerus. Individuals have improved cognitive functions are steep quality as well as steep now (how if they wer to reduce device usage prior to heir bed time as appoint to following their notinal steep schedule. Ownall, throwwood the 3 days of the innoting after being concluded, participants on aware had an increase on all the factors on the second neck when limiting device usage. This supported by the concept that sleep's interrupted by the presence of artifical lister, such as from our divices, this, phones etc. This is as the human body has an internal hight and day fining process called the circucum rythin. This process allows he brain to assess whether it is hight or day morgh the presence or absence of light and thus sands signals to the body to not accordingly to the time, so on as neity emissive Brshiping. The existence of artificial light most the sun, aismyts this cycle and the human body times, making me body keep itself more awake and aporpts the sleep scheape it has set as the brain vsed at night, thus keeply he body aware are working by more display the process of metabonia. production which aids in Sleg and Caling drowsiness.

4. The data was collected using a subjective quantitative measure.
 (a) With reference to your study, outline a strength of this method of data collection. (2 marks)
The data was subjective both which present unique to
the individual but quantitutive Molking it easily to
organise statistically in graphs and takes in order to be analysand find possion trends as reli as see the subjective date visually of hum (b) Suggest how qualitative data could be collected in a future study. (4 marks)
is away of collecting, go alitative data. Questions can
teloke to how they slept and overall talling about their stare a
a perit of dranges in their sleep schedule. The survey can
recours doing (c) Explain how qualitative data addresses a limitation of quantitative data. (2 marks)
or are unique to the
individual rather have some local man pressent 2000
important information, such as over feelings or
important information such as over feelings or state that caused be measured aside to the scales by (d) Assess the reliability and validity of the subjective quantitative measure you created. (4 marks)
Reliability: Using = pecific layor of the self assesment report
means it can be utilised by other experiments
and replicated individuals (same pasticipants) are more lit
Validity: The Subjective grantitume reaser is ofilised to
neware what the pripose of the experiment is. Participants while it to record their sheephous, quantry and cognitive functions, fitting to the aim of the experiment.
to bing in similar rends it the experiment was consucked

 Imagine we were going to run this study again but with the feature identified in 2 (b) (i) and a larger sample with the target population being high school students in Western Australia.
 (a) Assess which sampling technique would be most appropriate to get a representative sample of all students in Western Australia. (3 marks)
randonisasanjing would be most appropriate to get
a representative sample of all students in Australia, as
Kerith only towards year 12 ATAIR psychology streets
Many not represent other student who don't shape similar
includated characteristic sun as age, Tiving states etc. Random sampling is more represent and has an even chance of anyon being
(b) You have already written a standardised procedure in a report that could be used in the future study. Explain the purpose of having these in the study. (3 marks)
on to have a Astanderenised procedure allows for other yesculas
ox 10-be-consulted experiments to utilize the sure
proceeding in order to bring out similar results it
followed accoracy, and allows people to inspect here the
oxphinm was consucted consucted
(c) Suggest how you would minimise the effects of extraneous and confounding variables other than having a standardised procedure. (3 marks)
utilising near was learnt by similar previous experients
in order to priophy address buch variables in the
Correct experient just alvedy concreted inustigations
have oxiclosed but a change in
(he results and conain been commented.

(d) Explain how you would address two ethical considerations.

(6 marks)

One: deephin and participate consent:

Providing consent forms outhing an individual rish to winding consent forms outhing an individual rish to winding an area of the many more of acception or a consequer (participating of all owns deception to exist.

It's purpose and when to lifet by farticipating disallows deception to exist.

Two: (outidontality: individuals done as one not presched or uniquely lithed to them, disabloring participating having have done to them to them, disabloring participating having participating than or uniquely lithed to them, disabloring participation having have done to them the feeling embarranced scared of anxions of having their results field to them. Father, participants also added by coals and without to avoid the spread to that information such as nearly, ages etc.