

TASK 6 YEAR 12 ATAR PSYCHOLOGY UNIT 4 RESPONSE TEST

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Syllabus points

- Applications of Psychology to Health: stress as defined by Selye (1936), models of stress, health related consequences of stress maladaptive and adaptive coping strategies
- Science Inquiry: Ethical guidelines and practices for psychological research, Formulating research, Methodology, Processing and analysing data.

Conditions

Reading time: 5 minutesWorking time: 50 minutes

Task Weighting

8% total weighting

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	2	2	35	33	
Section Two: Extended Response	1	1	15	16	
			Total	49	

Section One: Short Answer Response

(33 Marks)

This section has two questions. Write your answers in the spaces provided. Suggested working time: 35 minutes.

Question One (13 marks)

Mrs Lee and her Psychology class wanted to test their theory that different types of meditation techniques would improve stress levels before exams. The class collected participants from their own school; Year 7's, Year 9's, Year 11's, and Year 12's. The participants were aged between 11 and 18 years old and were randomly allocated into three groups. Group 1 practices mindfulness once a day and group 2 practice Mantra meditation once a day (a practice that involves repeating a word, phrase, or sound to bring about mental focus and clarity). Group 3 practiced no meditation beyond their normal daily routine. At the end of a two-month trial, a week before the exam period, all the participants completed a stress test.

The following results were collected:

	Mean Score on Stress Test (out of 100)
Group 1: Mindfulness	57
Group 2: Mantra Meditation	65
Group 3: No Meditation	79

A statistical test on the difference between the effect of practicing meditation verses no meditation on stress found that p = 0.47

a)	Suggest a	directional	hypothesis	that the	class w	ould have	developed f	or this study.
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(4 marks)

It's hypothesized that school students aged 11 to
Is will experience more stress when they don't
meditate compare daily compared to minfulne
and montra meditation. Testing using a stress-
dest a week before the exam period and using
the mean score from three groups

	Homger children may not be as stressed because they may have smaller understanding of the seriousness
c)	Of younger children could be bigger than the risk Define stress as defined by Selye (1936) Define stress as defined by Selye (1936)
	the incombit antherpoise to any demand is of the
4١	Outling what two fature of streeper that being atraced about the wagering even is actorized
d)	Outline what type/nature of stressor that being stressed about the upcoming exam is categorised by. (2 marks)
	Psychological stressor. This being an internal
	Ediessor caused by thoughts walness and parspective
e)	Name the type of stress these students are experiencing due to exam preparation and outline what this means. (3 marks)
	Distress.
	This means a negative struss response that can cause these students to not want to act for not prepare
	for the escon hindowing their results

b) Identify two possible sources of error in the conduction of this experiment.

(2 marks)

Hugh recently graduated University and was travelling to his first big job interview. Along the way he noticed his car tire had started to go flat and needed replacing. Hugh was panicked and felt instantly stressed about making it on time for the job interview. Luckily a repair shop was close by, and he managed to get it replaced almost instantly.

a) Describe the duration of the stressor.

(1 mark)

Acute duration (small)

b) Identify the stage of stress Hugh was in when realising he had a flat tire and outline the characteristics of this stage.

(4 mark)

The alarm stage. At this stage cortisol, adrenaline and moradienaline and gre secreted causing physiological changes to the body like increased blood pressure, increased wase support of the breakdown of glucagen to sugar in the liver and increased break rate

Hugh unfortunately did not get offered the job position, and it is now 3 months later, and he has failed to secure another interview opportunity. His financial situation has been a serious stressor of his for these past few months.

 Explain what may happen if High is unbale to resolve the stress, including both short-term and long-term impacts. (5 marks)

If hugh is unable to resolve the stress not only will be continue to have increased breath rate, blood pressure and transformation of glucagen to sugars to the fiver. High will also experience a total decreased that from ctionable of his immune system increasing his chance to be sick also the extended direction of the increased blood prossure may couse a increased chance of a heart attack

Due to the prolonged stress, Hugh decides to visit a psychologist, seeking help and support in managing his stress. The psychologist decides to assess Hugh's vulnerability to stress through The Social Readjustment Scale, developed by Homes and Rahe (1967).

d)	Name the type of self-report measure used in the Social Readjustment Scale.	(1 mark)
	A Questinaire	
e)	Outline one strength and one limitation of this measurement tool.	(2 marks)
	A strength: It provides quantitative data allowing for o	-
	Almitelian: There is no place to insert a resson for ego	harswer
	therefore instead of a divorce causings bassif may reliave s	thists Treenswers)
f)	Using Lazarus and Folkman's (1984) theory, outline the role of the following cognitive and apply them to Hugh.	(4 mark)
	Primary: Initial assessment of a siteritimate liqu	ne out
	it it is harmful or dangerous (what will be	
	result of continuing with & financial difficulty)
	Secondary: Evaluating the & Bowels you have by	/0/
	determing whether they as they corresolve the	fred dosp
	(Hugh trying to find another job to make more mon	ey)
g)	Explain the method of coping Hugh is using in the scenario.	(3 mark)
	Athahis bene I the front coping 8 traters and	of 1 west
	focusing an controlling his emotional reaction to	the
	stusion (being francial d'Africalty	

Section Two: Extended Response

(16 Marks)

This section has **one** question. Write your answers in the spaces provided.

Suggested working time: 15 minutes.

Question three (16 marks)

Psychology students at Harvard University investigated the relationship between occupational stress and depressive symptoms among coal miners. The participants were 364 coal miners from Ohio, America. The study was approved by the internal review board of Harvard University.

A total stress index score was calculated for each miner to measure the level of stress they experience as part of their occupation. The Centre for Epidemiologic Studies Depression (CES-D) scale was used. It contains 20 item that are self-rated on a four-point Likert scale according to how often each symptom occurred in the past week. The sum of the scores represents the overall (CES-D) score between 0 to 60. A score of greater than 16 is considered indicative of depression. The scatterplot below shows the results for the study.

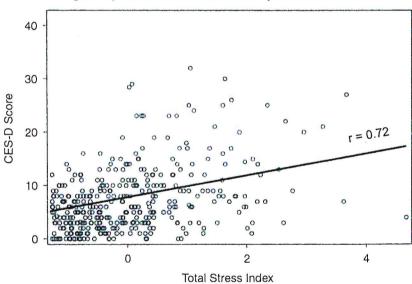


Figure 1: predicted mean CES-D score by miner's stress index

Notes: Adjusted for age, sex, race/ethnicity, alcohol intake and smoking status.

In a series of questionnaires used to gather qualitative data, the miner's reported threat of harm (intentional and unintentional), excessive work in hard conditions and a lack of support from supervisors as their three main stressors.

In your answer, refer to the above scenario by creating a well-constructed response, addressing the following:

- Outline what stress is according to Lazarus and Folkman (1984) and identify two types of stressors that the miner's experience in their work.
- The university's Internal Review Board is an example of an ethics committee. Describe the role
 of an ethics committee and outline two ethical guidelines that this committee would monitor
 during the study, stating how this would occur. (6 marks)
- Based on the data illustrated in Figure 1 on page 24, comment on the relationship between stress and depressive symptoms.
- Describe how psychological stress arises according to Lazarus and Folkman (1984) (2 marks)

Stress according to Lazarus and Folkman is any event
that is different or causes change.
Themaners experience social staga and environmental
stressor Lack of support from their supervisors
and the threat of horn in retentional and intentional
an a social and environmental enthe type of
Stressors respectively.
An ethics committee's role is to analyse ton
experiment and decide whether bang jists of
the study are ontrivialed by the brenet to of
completing the study while also ensuring the study
is as estical as passible. The committee would
monitor protection and from any horn and confidentally
protection from horm may be most common
Mucho this experienced as psychological harm some
being asked about such a stressful place and confidentially being the names of the coal minus names are published neither their nearly from the studies.
confidentially being treasuring none of the coal
mines names are published neither their near to
from the studies.
Based on figure I showing AM 1 = 0.72 He relationsly
between stress and depressive symptoms are corrected

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as the home a positive slope explaining that
as the home a positive slope explaining that as the goes up socle es depressive symptoms.
Psychological show areas through an individuals thoughts
rehus and perfectives here challenged as being
negative.

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END OF TEST