

# TASK 6 YEAR 12 ATAR PSYCHOLOGY UNIT 4 RESPONSE TEST

Name:	Layla	Keep	
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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 would have developed for this study.

	•					(4 marks)
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					Ü	(mindfulness, mantro
between	i ii and i	8 who	partici p	ate in	meditation	practices
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b)	Identify two possible sources of error in the conduction of this experiment. (2 marks)  - Small sample size could limit reliability
	- participants in the no meditation group could already
	partake in meditation as apart of their normal recording
۵۱	Define stress as defined by Salva (1936)
c)	Define stress as defined by Selye (1936) (2 marks)  the non-specific response to any demand on the body.
	can be physiological or psychological.
d)	Outline what type/nature of stressor that being stressed about the upcoming exam is categorised by.
	the nature of the stressor is place psychological
	as an individuals thoughts, emotions or perceptions.
e)	Name the type of stress these students are experiencing due to exam preparation and outline what this means.  (3 marks)
	The type of stress is distress. As described by selye  & distress is the negative stress response typically accompanied
	by physiological reactivity and negative emotions.

(1 mark)

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.
	acute (short term) stress
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)
	Hugh was in the alarm stage when he realised
	ne had a tlat tive. Characteristics of this stage include
	the stimulation of the advenal glands to velease cortisol, advending
	nor radicensions and the initiation of the fight of thight

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.

depth of breathing, increased heart rate.

response by the sympathetic nervous system. Increased rate &

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 vesolve the stress he may experience the exhaustion stage, where he has had prolonged exposure to the stress symptoms at the body.

This can result in decreased health and increase risk of many illnesses. Some initial responses [impacts include]

Iack of motivation, fatigue and these can result in longer term impacts including depression, anxiety.

heart disease, diabetes.

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)
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e)	Outline one strength and one limitation of this measurement tool.	(2 marks)
	Strength: collects quantatative data to provide stat	istical
	<u> </u>	
	analysis	
	Limitation: due to the reporting being subjective the v	esults
	_ can be exaggurated	
f)	Using Lazarus and Folkman's (1984) theory, outline the role of the following cognitive and apply them to Hugh.	e appraisals (4 mark)
	Primary: used to determine whether the situation is cha	wenge,
	threat or dangerous situation. Hugh evaluated his sit	uation
	and descided that it was challenging or a threat	- to himself
	Secondary: Used to evaluate whether the person has the v	CS OWICES
	and abilities to manage & cope effectively. Hugh evalue	uea me
ь	way ability he has to cope and descided he can cope by seeing someone	effectively
g)	Explain the method of coping Hugh is using in the scenario.	(3 mark)
	Hugh is using the coping method of problem for	used
	coping as he has decided in his cognitive appraisal	tuat his
,	situation can be managed effectively and is treating +	ne issue
	at its cause rather than the symptoms.	

(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.

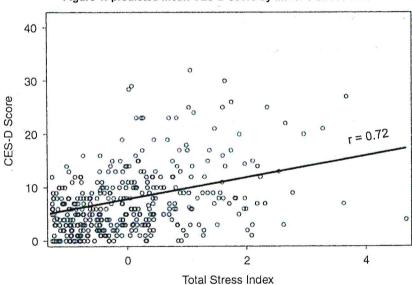


Figure 1: predicted mean CES-D score by miner's stress index

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)

Question number:
According to Psychologists Lazarus and Folkman stress
is the illian interaction between an Individual and the
environment. Two types of othersors that the miners in
the situation could be experincing include environmental
stiessors and social stressors.
laber partaking in rescarch an arguingent and the
When partaking in research, an experiment must be approved
by the ethics committee. The ethics committee's have is
to set the standards of ethics and ethical guidelines
all researchers must follow and enforce them in all research
situations. The ethics committee also verices experiment or
research proposals to ensure that the ethical quidelines
are being tollowed. During this study of coal miners
and depression, two ethical guidelines that the ethic's
committee would moniter is the withdrawl rights of
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participants and the right to privacy that the participants
have. This could be enforced by the committee continuously
veriewing the experiment while it is occurring to ensure
that any participants who have decided to withdram
from the study are allowed to do so freely without threat
or punishment, and that any participant involveds
private sensitive information has been collected, dispoded
of and stored securely.
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,	Based on the illustration of figure 2, there is snown
	to be a moderate positive correlation between the
	total stress indet and the CES-D score for depressive
	symptoms. This can be seen as the correlation coefficient
	tor the relationship is measured at 0.72 and the
	graphing of the data snows that as the total stress
	index score increases, the CES-D score incheases aswell.
,	About many many
	•
	Lazaurs and folkman stated that psychological stress
	arises when a person's to assume cognitive approxisal
	evaluates that they are in a challenging, threatening or
	dangeous situation but are unable to cope or manage
,	expectively.
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Question number:		
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