

TASK 6 YEAR 12 ATAR PSYCHOLOGY UNIT 4 RESPONSE TEST

Name: Micole White

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

Suggest a directional hypothesis that the class would have developed for this study. (4 marks					
It is hypothesised that the students aged between					
11-18 that partone in meditation once a day					
will have a lover score on the stress test					
prior their exams, as oppossed to the students					
who practiced no reditation.					
\					

b)	Identify two possible sources of error in the conduction of this experiment. (2 marks)
	A source of error is the large variety of year groups
	and their different responsibilities in regards to school. A
	year 12 compared to a year 7 are more titely to experience
	Star 12 contracts con a second as shown
	more stress because they know the importance of their exam.
c)	Define stress as defined by Selye (1936) (2 marks)
	Stress is defined as the nonspecific response
	of the body to any demand (psychological
	and physiological).
d)	Outline what type/nature of stressor that being stressed about the upcoming exam is categorised by.
	(2 marks)
	The type of stressor being stressed about an examis a
	psychological stressor. This is internal and involves a
	persons Thought, perceptions and emotions. An individual
	being stressed about the difficulty of the exan or lack of preparation involves their cognitive perceptions
e)	Name the type of stress these students are experiencing due to exam preparation and outline what this means. (3 marks)
	The students are experiencing enstress which is
	a positive stress reporce that enhances functioning
ſ	nd notivation. The students being aware that they have
	on the growing by one on the little lives to
	on supcoming exam can motivate lies to start
	sended in order on one cocky

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)	
b)	Duration refers to how long the stress last, can be short tenderated or long term (who mis) Identify the stage of stress Hugh was in when realising he had a flat tire and outline the	
	thugh was in the alarm stage of stress. This is the body	
	initial response to stress. Hugh's brain processed the flat	-
	tire as a threat to his job interview which resulted in	
١	um instably being stressed. During the stage, the body's sympal	heh
	nervous system is actuated preparing it for fight-or-fle	~
	in order to deal with the Stress. Some characteristics now	3
to	gh unfortunately did not get offered the job position, and it is now 3 months later, and he has failed secure another interview opportunity. His financial situation has been a serious stressor of his for see past few months.	
c)	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 solve the stress it can have a	=
	serious impact on his health and wellberrig. In short	-
	tern this may include Julique or reduced notices	νη.
	While in long-term it would lead to the	-
	development of depression or answitz. It can	-
	also weaken his is immore system that con	_
	increase his risk of developing heart diseases or	-
	dial etes.	-

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)
	Subjective reasure
e)	Outline one strength and one limitation of this measurement tool. (2 marks)
	A strength is that it wheels quantitative data.
	A limitation in that participant can over exaggeral
	their expenses since it's based on their
	perception of the situation
f)	Using Lazarus and Folkman's (1984) theory, outline the role of the following cognitive appraisals and apply them to Hugh. (4 mark)
	Primary: 15 the initial assessment of a threat to decide
	if its a stressor. Hugh has realised that his unemployment
	is a threat to his willbeing and deens it a stressor.
	secondary: 13 the evaluation of available resources to deal
	with the Stress. Hugh decides to contact a psychologist
	so he can get assistance la dea manage his stren.
g)	
	Hugh is using problem sol uping which priorities
	resolving the root cause of the stress. Her done this
,	by seeking advice and help from a psychologist to help deal with his stress. It also involves him seeking another job to help ease his principal stress.
	to help deal with his stress. It also involves him
	Seehing crother job to help lose his prancial stress.
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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.

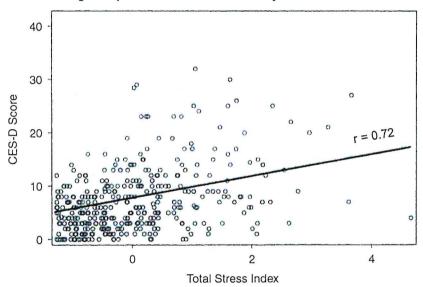


Figure 1: predicted mean CES-D score by miner's stress index

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.
 (4 marks)
- Describe how psychological stress arises according to Lazarus and Folkman (1984) (2 marks)

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hazarous and solvern defined stress as a situation or characteristic pro inpacting a individual. Two types of Stressons reviews experience in their work is environmental and productional. Environmental stressons insula a persons surroundings. Typically, minus our placed in dark, dengerous environments where they have a beinghtered with of injury which can be stress cowings they designed stresson are external and involve a persons social when, socied expertations and relationships. Mines our exalty positioned among from home, rahing it difficult for them to interact with their family.

An elhico comitee is a group of people respondble for creating again strict quide lines that protects participants from any horn or decopt mistreatment. It role is to ensure on participants health, wellbeing and elhico trights are not breached or in risk of horn. A quideline this committee wald monitor is wanted insurt. This is when the participants are completely aware of the aim and propose of the study. Another apideline wald see privary. This is when forticipant menain

mongrow, and their personal information and
results from the study are not shared with external
people and are not tisted trackler-their results cont
be linked to the person. These go delines can be
followed by weating a world for which
not be signed and understood by the participant
prior the test. It can also be followed by
ensuring the participants renain anungrous
Throughout the entire study.
The graph shows that the love the siere the miners
have of the WEST Stress index the laver the anant
of depressive suppliers they experience. The shows that
Here is a strong round relationship between to
Stress and depressive surplose till tunce one crother.
Hovever, the relationship is weak and unconsistent, showing
a goeste linea relationship.
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Psychological stenion and bosed on individualis interaction with their environment. These strenors
interaction with their environment. These streams

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ad perception. Therefore if an individual has a
regative perception on their environment or
interaction within a specific environment, they
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stress. Langarous and Folhman stated that psychological
stren cer aise boad on an individuals judgerents
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END OF TEST