

# 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 dir	ectional hypothes	sis that the class	would have	developed for this stud	dy.
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(4 marks)

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c) Define stress as defined by Selye (1936)	(2 marks)
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Name the type of stress these students are experiencing due to exam prep what this means.  Evstress is a positive stress being experienced the stress is a positive stress being experienced.	aration and outline (3 marks) enced by All Shened

(1 mark)

a) Describe the duration of the stressor.

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.

Hugh unfortunately did not get offered the job position, and it is now 3 months later, and he has fail o secure another interview opportunity. His financial situation has been a serious stressor of his for hese past few months.  Explain what may happen if High is unballe to resolve the stress, including both short-term and long-term impacts.  (5 mai high's stress would only increase, reducing his motivation, self efficiency and builder in and sets of skills and self. Short term, he might feel be motivated to conduct taxes of this parts of skills and self. Short in him being involved in imposion manufacture coping stategies.		acute as
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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) Gale (LCU) fite thought e) Outline one strength and one limitation of this measurement tool. We finished in it overlooms specific situation in relation to the situation, topics other deemed as strepped and it experienced will be asserted but an individual may actub se unsotred despite experiencing son situation Using Lazarus and Folkman's (1984) theory, outline the role of the following cognitive appraisals and apply them to Hugh. (4 mark) Primary: Primary appriarul is the initial assessment of the situation. This is where flugue asses the state we's in and it his situation (5 Naymbil of strength. Secondary: secondary appraisal is the anesment and secting utilities resources around you and the environment to deal him the

resources around sou and the environment to deal with the stress and sinnition. For Mugh, this was when he decided to utilize a psychologist.

g) Explain the method of coping Hugh is using in the scenario.

(3 mark)

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Adaptive (proview - focused) coping swatery.

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to find support and hulp Manage his stress, dealing with

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(16 Marks)

## Section Two: Extended Response

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.

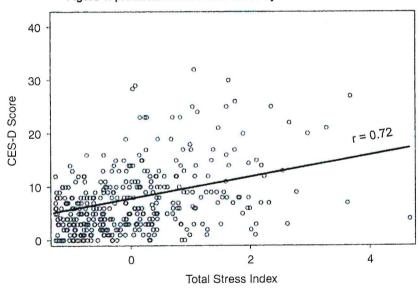


Figure 1: predicted mean CES-D score by miner's stress index

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. (4 marks)
- 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)

Question number: 3

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