



Cambridge International AS & A Level

THINKING SKILLS

9694/21

Paper 2 Critical Thinking

May/June 2022

1 hour 45 minutes



You must answer on the enclosed answer booklet.

You will need: Answer booklet (enclosed)

INSTRUCTIONS

- Answer **all** questions.
- Follow the instructions on the front cover of the answer booklet. If you need additional answer paper, ask the invigilator for a continuation booklet.

INFORMATION

- The total mark for this paper is 50.
- The number of marks for each question or part question is shown in brackets [].

This document has **8** pages. Any blank pages are indicated.

Section A

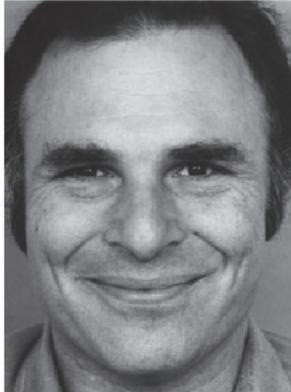
Study the evidence and then answer Questions 1 and 2.

Source A

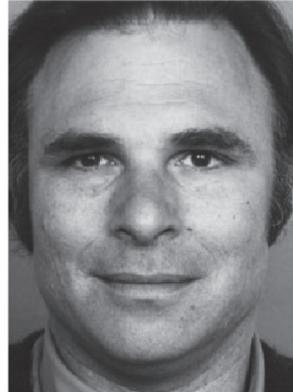
Extract from psychology textbook

The most influential analysis of smiling was done in the nineteenth century by the pioneering neurologist Guillaume Duchenne. He observed that smiles could be classified into two types. The first type involves two facial muscles: one stretches the corners of the mouth and the other pulls up the cheeks, causing smiling eyes. Smiles of this kind have become known as 'Duchenne smiles'. The other kind of smile involves only the mouth and not the eyes. Duchenne claimed that smiles involving the eyes as well as the mouth were genuine, while smiles involving only the mouth were insincere, or 'fake'.

Source B



A Duchenne smile



A non-Duchenne smile

Source C

Article from general-interest magazine

Several biologists and psychologists have analysed the various types and functions of smiles, and have come up with different results. One psychologist has identified as many as 19 distinct types of smile. However, a moment's thought about our own experience will reveal that the most useful distinction is between **happy** smiles and **friendly** smiles.

A happy smile is a natural reaction to something which pleases or amuses us. Smiles of that kind can occur even when no one else is present, although they happen more often in the company of others; it is difficult to remain straight-faced when people around us are smiling. Friendly smiles are used to send a message to other people, especially that we are pleased to see them and present no threat to them. People in jobs which involve meeting the public, such as receptionists and shopworkers, are expected by their employers to smile as they greet customers or clients. It would be harsh to describe polite smiles like these as 'fake'.

Source D

Research report

In 2010, researchers from Wayne State University in Detroit, Michigan, studied 230 baseball cards from the 1952 season. These cards, containing photographs of professional sportsmen, are used in the US and some other countries to promote the sale of various consumer products. The researchers divided the photographs into those where the players did not smile, those with non-Duchenne smiles and those with Duchenne smiles. Of the 230 players whose pictures were studied, 184 had died by the time the research took place, and the researchers concentrated on them. They discovered that players whose photographs showed them smiling with a Duchenne smile had lived on average five years longer than those with non-Duchenne ('fake') smiles and seven years longer than those who did not smile at all. They concluded that Duchenne smiles are an indicator of happiness and that happy people live longer than unhappy people.

Source E

Top Tips for a Happier Life

- **Practise smiling**
Practising smiling should be as much part of your morning routine as washing your face and brushing your teeth. Take a few minutes to stand in front of the mirror and smile. Extend your smile so that it uses both your mouth corners and your eye sockets. This body language will send feedback to your brain, immediately making you feel happy and relaxed. The more you practise smiling, the more natural it will become for you to smile spontaneously during the day. Greeting the day's events with a smile will influence your own attitudes and will also make other people behave more positively towards you.

- 1 (a) How well does Source B support Source A? [2]
- (b) (i) To what extent does the credibility of Source C depend on the *expertise* of the author? [2]
- (ii) Explain how the reliability of Source D is strengthened by any **two** reliability criteria **other** than expertise. [2]
- (c) Identify **two** weaknesses in the support given by Source D for its claim that "happy people live longer than unhappy people." [4]
- (d) Is Source E an argument? Explain your answer. [2]
- (e) Identify an *inconsistency* between Source A and Source E. [2]

- 2 You are advised to spend some time planning your answer before you begin to write it.

'There is a significant difference between genuine and fake smiles.'

To what extent do you agree with this claim? Write a short, reasoned argument to support your conclusion, using and evaluating the evidence provided. [8]

Section B

Read the following passage and then answer Questions 3, 4 and 5.

- 1 The traditional definition of marriage has included that it should be exclusive, lifelong and between one man and one woman. This definition is too old to be relevant today, and it needs to be revised to make it fit for the mid-twenty-first century. Excluding other participants cannot be essential to marriage, because some husbands and wives agree in advance that each partner is free to have intimate relationships outside their marriage.
- 2 People tend to live longer now than when marriages could realistically be expected to satisfy both parties until the death of one. Many countries have recognised this development by allowing one spouse to divorce the other without accusing them of any wrongdoing. It is no longer reasonable for marriage to be a lifelong commitment. Some have even made this change in expectation explicit by replacing 'till death do us part' in their wedding vows with 'as long as we both shall love'.
- 3 Recent legal reforms in many parts of the world have now acknowledged that it is possible to fall in love with someone of the same gender as oneself. Being of different sexes can therefore no longer be imposed as a necessary requirement for marriage. There is no force in the objection that marriage must include the ability to have children, because some couples marry when they are too old to have children, while same-sex couples can adopt children or use a donor or surrogate.
- 4 There is no logical or practical reason why three or even four people should not make a loving commitment to one another in marriage. Just as most parents find no problem in sharing parental love between all of their children, it must be equally possible for a man to love more than one wife or a woman more than one husband. Historically, men from the ruling elite in many cultures have had several wives; in parts of Tibet, Nepal and northern India two or more brothers share one wife and are considered as joint fathers of her children. A few people in the US have formed intimate, committed relationships involving three people, and they have coined the word 'throuple' to express their identity.

- 3 (a) Using the exact words from the passage as far as possible, identify the *main conclusion*. [2]
- (b) Using the exact words from the passage as far as possible, identify **two intermediate conclusions** in paragraphs 1 to 3. [4]
- (c) Identify the argument element and explain the function of the following words from paragraph 4:
'Historically, men from the ruling elite in many cultures have had several wives;' [2]
- (d) Identify **one unstated assumption** required by the argument in paragraph 2. [2]
- 4 (a) Identify an *appeal* in paragraph 1 and evaluate its impact on the argument. [3]
- (b) Identify **one flaw or weakness** in the reasoning in paragraph 3. [2]
- (c) Evaluate the *analogy* in paragraph 4. [3]
- (d) How well does the last sentence in paragraph 4 support the claim that "There is no logical or practical reason why three or even four people should not make a loving commitment to one another in marriage"? [2]

- 5 *You are advised to spend some time planning your answer before you begin to write it.*

'A committed relationship between a man and a woman is the best setting in which to bring up children.'

Write your own short argument to support **or** challenge this claim. The conclusion of your argument must be stated. Credit will not be given for repeating ideas from the passage. [8]

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