

## Critical thinking in academic research, repeat credit-test

BA1, 06.02.2014, ver. A.

Circle the best answer

1. "Father beat him ruthlessly as a kid. Now he's into drugs". This is an example of:

- (a) tautology,
- (b) sine qua non,
- (c) axiology,
- (d) per genus et differentiam,
- (e) post hoc – propter hoc.

2. T-test is used to measure:

- (a) statistics,
- (b) correlation between samples,
- (c) significance of difference,
- (d) adequacy of definition,
- (e) knowledge of Latin.

3. 'Fallacy is risible' means that:

- (a) it can be avoided,
- (b) it cannot be avoided,
- (c) it often arises in science,
- (d) one should be proud of it,
- (e) it is laughable.

4. "Why does Christmas exist? To hold hands". This is an example of:

- (a) teleological explanation,
- (b) causal explanation,
- (c) theological explanation,
- (d) tautological explanation,
- (e) vicious circle in explaining.

5. The story of discovering black swans is used in logic to illustrate:

- (a) idealization: from facts to data,
- (b) abductive uncertainty,
- (c) common sense and its failure,
- (d) deductive certainty,
- (e) inductive uncertainty.

6. "23% boys say they don't read books; only 4% girls say so. Girls read more than boys". This is an example of:

- (a) tautology,
- (b) sine qua non,
- (c) axiology,
- (d) fallacy,
- (e) post hoc – propter hoc.

7. We ... 'per genus'.

- (a) define,
- (b) explain,
- (c) describe,
- (d) infer,
- (e) justify.

**Best answers: 1e, 2c, 3e, 4a, 5e, 6d,7a.**

**Critical thinking in academic research, repeat credit-test  
BA1, 06.02.2014, ver. B.  
Circle the best answer**

1. "Twice as many women as men report nightmares. This is due to their higher emotionality". This is an example of:

- (a) tautology,
- (b) sine qua non,
- (c) axiology,
- (d) fallacy,
- (e) post hoc est propter hoc.

2. Questionnaires used in an empirical study should be appended with the thesis because:

- (a) they make it complete,
- (b) it is possible to correct spelling errors then,
- (c) conclusions cannot be verified without them,
- (d) this is what the style-sheet demands,
- (e) subjects will have something to show for their contribution to the project.

3. Descartes would most approve of:

- (a) I see, therefore I see,
- (b) I see, therefore I look,
- (c) I look, therefore I see,
- (d) I look, therefore I look,
- (e) none of these.

4. In falsificationism:

- (a) de gustibus non est disputandum,
- (b) the plural of 'hypothesis' is 'hypotheses',
- (c) hypotheses are tested,
- (d) one should prove a hypothesis correct,
- (e) one should prove a hypothesis fallacious.

5. In abductive inference:

- (a) the conclusions are certain,
- (b) the premises are certain,
- (c) the premises are uncertain,
- (d) the conclusions are uncertain,
- (e) both the premises and the conclusions are certain.

6. The anthropological study of Kuleszas failed because:

- (a) they used experiment rather than observation as their methodology,
- (b) they used observation rather than experiment as their methodology,
- (c) their stopwatch was too primitive to measure reaction time properly,
- (d) they conducted their study at night in an empty staircase,
- (e) they did not control their variables properly.

7. "This plant is a vegetable" is an example of:

- (a) definition,
- (b) description,
- (c) inference,
- (d) fallacy,
- (e) explanation.

**Best answers: 1d, 2c, 3b, 4e, 5d, 6e, 7b.**