GER1000 2018 Sem 1 Quiz 1 Solutions

1. Please refer to the Synopsis in the IVLE, which has the following sentence:
"We are aware that this is a compulsory module for students of very diverse backgrounds
What is the missing word?
 (A) acutely (B) seriously (C) strongly (D) very (E) None of the above.
Answer: (A) See Synopsis point 4.
2. In a controlled experiment, randomisation refers a method of
(i) forming the control group and the treatment group from the enrolled subjects (ii) selecting eligible subjects to participate in the experiment
Which of the statements is/are true?
(A) Both (i) and (ii) (B) (i) only (C) (ii) only (D) Neither (i) nor (ii)
Answer: (B) See for example, Unit 4 slide 3 or slide 11.
3. In Unit 6 slide 12, let <i>rate(high)</i> denote the overall rate of high IQ in the US adult population Fill in the blank,
rate(high) rate(high poverty)
(A) is less than(B) is equal to(C) is more than(D) Cannot be determined.
Answer: (C) We can calculate that rate(high) = 180/240 = 75% using the information given in the table on that slide. In the slide, it is stated that rate(high poverty) = 45.5%.

4. According to Unit 7, which of the following techniques are commonly used to control for confounders?
(i) slicing (ii) regression
(A) Both (i) and (ii) (B) (i) only (C) (ii) only (D) Neither (i) nor (ii)
Answer: (A) See Unit 7 slide 5 and slide 11.
5. Please refer to Unit 8 slide 9. Suppose in the table the 6 admission rates remain the same, but the number of applicants to majors were some other numbers. For example, the number for A is 800 instead of 933, etc., so that the total number may be different from 4526. The percentage of women who will be admitted can never be 90%.
(A) True (B) False
Answer: (A) You can vary the numbers of applicants, to check that the percentage cannot be 90%. In fact, it must lie between the minimum of 7% and maximum of 82%.
6. Please refer to the welcome email from the GER1000 team, the one that starts with "Dear students, Welcome to GER1000 Quantitative Reasoning." How many times does "tutorial" appear?
(A) 1 (B) 2 (C) 3 (D) 4 (E) 5
Answer: (B)