Unit 11 Testing and Individual Differences Concept Sheet

Directions: Read pages 606-648 in your textbook. Answer the questions that follow completely, giving examples when necessary.

1. Define intelligence.
2. Describe Charles Spearman’s theory of intelligence. What research supports Spearman’s theory?
3. Describe Howard Gardner’s theory of intelligence. What research supports this theory?
4. List and define the eight types of multiple intelligences.
5. Describe Robert Sternberg’s theory of intelligence. What research supports this theory?
6. What does it mean to have emotional intelligence? What determines one’s emotional intelligence abilities?
7. How does brain size and function influence intelligence?
8. Who is Francis Galton, and why is he significant?
9. How did Alfred Binet and Theodore Simon contribute to the field of intelligence testing?
10. How did Lewis Terman contribute to the field of intelligence testing?
11. How did William Stern contribute to the field of intelligence testing?
12. Predict some early weaknesses of the original Stanford-Binet test.
13. What is the difference between an aptitude test and an achievement test? Give an example of each.
14. Describe the Wechsler Adult Intelligence Scale. What does it test? How is it significant to the field of intelligence testing?
15. What does it mean to say that a test has been standardized?
16. Sketch the normal curve for the Wechsler intelligence test, including the number of standard deviations and what percentage of the population fits into each SD.
17. Describe the trend of intelligence test scores historically.
18. What does it mean to say that a test is reliable?
19. What does it mean to say that a test is valid? Explain the types of validity.
20. Explain the difference between cross-sectional and longitudinal studies.
21. Explain the difference between crystalized intelligence and fluid intelligence.
22. What are the traits of those at the low and high intelligence extremes?
23. What evidence points to a genetic influence on intelligence?
24. What evidence points to an environmental influence on intelligence?
25. Define heritability. How does this relate to intelligence?
26. Define epigenetics.
27. List mental abilities in which men outperform women.
28. List mental abilities in which women outperform men.
29. Is intelligence determined by race? Give evidence to support your claim.
30. What does it mean to say that there is a bias in intelligence testing?