

Java – Chapters 1, 2, 4, 5 (breakdowns listed on Moodle)

Definitions:

1. Programming Language –

2. Syntax Rules –

3. Semantic Rules –

4. Comments –

a. Single-Line

b. Multi-Line

5. Identifier

a. Rules

i.

ii.

6. Data Types –

7. Primitive Datatypes (3 categories, 1 with 5 types)

a.

i.

ii.

iii.

iv.

v.

b.

c.

8. Java Application –

9. Class Declaration –

10. Filename for a public Class –

11. Class Names & Identifiers –

12. Class Body –

13. main Method –

14. Method Body –

15. System.out print methods (what are they and what do they do?)

a.

b.

c.

16. Escape Character (what is it and list some examples)

a.

b.

17. Expressions –

18. Arithmetic operators

a.

b.

c.

d.

e.

19. Assignment Operator –

### 20. Equality Operators

a.

b.

### 21. Relational Operators

a.

b.

c.

d.

### 22. If statements –

### 23. Condition

### 24. IF Statement Control Flow Diagram

### 25. String –

### 26. Algorithm –

27. Pseudocode –

28. Sequential execution –

29. Selection statements (3 types)

a.

b.

c.

30. Iteration statements –

31. Looping Statement Control Flow Diagram

32. while Loops

a.

b.

33. Compound Assignment Operators

34. Increment & Decrement Operators

35. Switch Statements

36. case

37. default

38. break

39. continue

40. Essentials of Counter-Controlled iteration

a.

b.

c.

d.

41. for iteration statement

42. local variable

43. scope

44. What are 4 different ways you can increment a variable?

- a.
- b.
- c.
- d.

45. do...while iteration statement

46. Logical Operators

- a.
- b.
- c.
- d.
- e.
- f.

47. Three forms of control to implement an algorithm

- a.
- b.
- c.

48. Selection is implemented in 3 different ways

a.

b.

c.

49. Iteration is implemented in 4 different ways

a.

b.

c.

d.

50. String Class

a. name 5 methods and what they do