

## Review Packet Answer Key

### Organic Chemistry ( Topic 11 in your review book)

- |       |       |
|-------|-------|
| 1. 2  | 12. 1 |
| 2. 2  | 13. 2 |
| 3. 4  | 14. 2 |
| 4. 3  | 15. 2 |
| 5. 2  | 16. 3 |
| 6. 2  | 17. 1 |
| 7. 4  | 18. 4 |
| 8. 2  | 19. 3 |
| 9. 2  | 20. 1 |
| 10. 2 | 21. 4 |
| 11. 1 | 22. 1 |
23. moles =  $19/95 = 0.20$  moles
24. The type of ORGANIC reaction is **substitution**
25. The empirical formula is **C<sub>4</sub>H<sub>9</sub>**
26. The – COOH group on the reactant molecule should be circled
27. ethanoic acid
28. You should draw 1 – propanol
29. Methane is a nonpolar molecule because its valence electrons are distributed evenly throughout.
30. 125°C
31. As molar mass increases, so does the boiling point temperature.