

Review for Test 2

1. *Differences between Cytoplasmic Matrix between EC and PC
Cytoplasmic Matrix.*
2. *Microfilaments*
3. *Cytochalasin B*
4. *Microtubule*
5. *Enoplasmic Reticulum*
 - *SER*
 - *RER*
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6. *Golgi Apparatus*
7. *Lysosomes*
8. *Vacuoles and Vesicles*
9. *Endocytosis*
 - *Phagocytosis*
 - *Pintocytosis*
10. *Autophagic Vacuole*
11. *How do the ER and GA relate to each other*
12. *Difference between Eucaryotic and Procaryotic Ribosomes*
13. *Mitochondria:*
 - *Structure: Outer and Inner Membrane*
Cristae
*Ribosomes: How do they compare with prokaryotic
ribosomes.*
Matrix
14. *Chloroplasts:*
 - *Plastids*
 - *Stroma*
 - *Thylakoids*
Thylakoids Membranes
 - *Pyrenoid*
15. *The Nucleus and Cell Division*
16. *Nuclear Structure*
17. *Nuclear Envelope*
18. *The Nucleolus*

19. *Mitosis and Meiosis*
20. *Cell Cycle: Three phases*
21. *Mitosis and Four Phases*
22. *Meiosis: stages*
23. *External Cell Covering*
 - *Cell wall or lack thereof*
24. *Cell wall difference of PC and EC cell*
25. *Cilia and Flagella*
26. *Comparison of PC and EC cell overview.*

Chapter 5

27. *Nutrients*
28. *Microelements and their roles/functions*
29. *Macroelements and their roles/functions*
30. *Assimilation*
31. *Carbon, Oxygen and Hydrogen*
32. *Autotrophs*
33. *Heterotrophs*
34. *Organic and Inorganic the difference*
35. *Nutritional types of MO*
36. *Energy and Electrons available to MO*
37. *Four Major types of Nutritional Types of MOs*
38. *Mixotrophic*
39. *Nitrogen, Phosphorous, and Sulfur Requirements*
40. *Growth Factors*

Uptake of Nutrients by cell

41. *Facilitated Diffusion*
42. *Active Transport*
43. *Group Translocation*
44. *Iron Uptake*

Culture Media

45. *Synthetic Media*
46. *Complex Media*
47. *Agar*
48. *General Purpose Media*
49. *Enrichment Media*
50. *Selective Media*
51. *Differential Media*

- 52. *Isolation of Pure Cultures*
- 53. *Spread Plate*
- 54. *Colony*
- 55. *Streak Plate*
- 56. *Colony Morphology and Growth*

Chapter 6

- 57. *Growth*

- 58. *Binary fission*
- 69. *Growth curve and each phase*
- 70. *Measurement of Growth*
- 71. *Measurement of Cell Mass*
- 72. *The Continuous Culture of MO*
- 73. *Environmental Factors on Growth*
- 74. *Temperature and Classification*
- 75. *pH*
- 76. *Oxygen Concentration*
- 77. *Salinity*