**CH 3 Test Review**

**Read Study outline p. 101**

**Recommended Q’s Ch. 3**

**P. 104 (1-8 11 13 16 18-23, 26 &28)**

**Organelles p.63-79**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ control center for cellular operations.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ responsible for renewal and modification of the cell membrane.
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ proteins in the cytosol that regulate metabolic and chemical reactions.
4. List the functions of the cell membrane (plasma membrane). \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the basic structural unit of the body.
6. The cell’s DNA is located in the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?
7. Describe the structure of the cell membrane (plasma membrane).\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are the complex structures of DNA and protein found in the nucleus.
9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the structure that forms the spindle apparatus during cell division.
10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the structure that produces ATP for the cell.
11. Lysosome function-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
12. Which endoplasmic reticulum modifies and packages newly synthesized proteins?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
13. The structural components of ribosomes are formed by?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
14. Peroxisome function\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
15. Describe the function of membrane proteins within the cell membrane (plasma membrane).\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Transcription/Translation p.80-83**

1. The process of protein formation\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?
2. The nucleus stores DNA to synthesize what molecule in the cytoplasm?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. The anticodon the codon UCA would be\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?
4. The mRNA sequence that is complimentary that is complimentary to the sequence ATC on DNA would be\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?
5. A unit in mRNA consisting of a set of three consecutive nucleotides is\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?
6. The molecule that interacts with the mRNA at the site of the ribosome to synthesize protein\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?

**Cell Transport p.84-94**

1. The process by which molecules like glucose are moved into the cells along the concentration gradient with the help of membrane-bound carrier proteins\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?
2. The process that requires cellular energy to move a substance against its concentration gradient\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?
3. A solution that contains a lower solute concentration that the cytoplasm\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?
4. The packaging of extracellular materials in a vesicle at the cell surface for importation is called\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?
5. Sodium Potassium Pump function-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Cell Division p.95-100**

1. During mitosis, two daughter cells form\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?
2. During mitosis, chromatids separate into daughter chromosomes during\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?
3. A cell duplicates its chromosomes during the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_phase?
4. During the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ phase of cell division, chromosomes uncoil, nuclear membrane forms and cytokinesis may occur.