**Suggested Answers to Assignments, Chapter 37, The Urinary System**

| Written Assignment | Learning Objectives |
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| Assignment #1. Students will complete Chapter 37 of *Lippincott Workbook for Nursing Assistants.* | 1–6 |

| Group Assignments | Learning Objective(s) |
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| Assignment #1. Obtain some beef kidneys from a local butcher and bring them to class for the students to observe and locate:   * Renal pyramid * Renal artery * Renal vein * Ureter | 1 |
| Assignment #2. Make copies of Figure 36-1 in the textbook with the labeling removed. Provide each group of students with a copy. Students will label the diagram correctly and write the functions of each organ of the system. Each group will compare answers.   * Aorta   + Largest artery in the body carries blood to the renal arteries * Renal arteries   + Carry blood from the aorta to the kidneys * Kidneys   + Filter blood to remove waste products and excess fluid from the bloodstream * Ureters   + Carry urine from the kidneys to the bladder * Bladder   + Reservoir for holding urine * Urethra   + Tube that carries urine from the bladder to the outside of the body * Renal veins   + Carry blood away from the kidneys to the inferior vena cava | 1, 2 |
| Assignment #3. Students will list the changes that occur with aging, and the effects these changes have on the urinary system.   * Decreased number of functioning neurons   + Decreased efficiency of filtration * Decreased muscle tone of the bladder   + Reduced bladder capacity which can contribute to stress incontinence   + Incomplete emptying of the bladder * Enlarged prostate gland in men   + Narrowing of the urethra leading to urinary retention and overflow incontinence * Incomplete emptying of the bladder   + Increased risk for urinary tract infections | 3 |

| Clinical Assignments | Learning Objective |
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| Assignment #1. Students will review the following observations, which may be signs of a urinary system disorder, and will report them immediately to the nurse and to you.   * Complaint of sharp, sudden pain in the abdomen, side, or back * Blood in the urine * A significant increase or decrease in the amount of urine voided in a period of time * Changes in a person’s voiding habits, especially increased or decreased frequency, or the new onset of incontinence * Pain or burning when urinating * Urine that appears cloudy or has a strong ammonia smell * Increased confusion, decreased alertness, or unusual behavior | 4, 5 |
| Assignment #2. Arrange for one of the following: a person having dialysis, a visit to a dialysis center, or a dialysis nurse to provide the following information to students:   * Dialysis access devices * Length of treatment and frequency * Dialysis side effects * Skin problems * Diet * How a hemodialysis machine works * How peritoneal dialysis works | 5 |

| Web Assignment | Learning Objective |
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| Assignment #1. Students can enter “renal transplant history and survival statistics” to find such websites as:  [http://www.nationalkidneycenter.org/treatment-options/transplant/history-of-transplants](http://www.nationalkidneycenter.org/treatment-options/transplant/history-of-transplants/)  <https://www.niddk.nih.gov/health-information/health-statistics/kidney-disease>  <https://www.emedicinehealth.com/kidney_transplant/article_em.htm> | 5 |