# Introduction to Module 11: Reproductive System, Pregnancy & Human Development, & Heredity

#### Module 11 Overview

Module 11 will cover a review of the reproductive system, pregnancy and human development, and heredity.

#### Outcomes: The following outcomes were designed to ensure student success on the exam.

## Medical Terminology/Anatomy & Physiology Module 11 Student Outcomes:

- 1. Describe the common function of the male and female reproductive systems.
- 2. Using a model or diagram, identify the organs and accessory organs of the male and female reproductive systems and discuss the general function of each.
- 3. Know the process of meiosis to the extent of comparing and contrasting it to mitosis.
- 4. Outline the process of spermatogenesis.
- 5. Discuss hormonal regulation of testicular function and the physiological effects of testosterone on the male reproductive anatomy.
- 6. Trace the pathway of sperm cells from their site of formation to the body exterior.
- 7. Describe the phases of the ovarian cycle and relate them to events of oogenisis.
- 8. Describe how hormones control the activities of female reproductive organs and the development of female secondary sex characteristics.
- 9. Discuss the structure and function of the mammary glands.
- 10. Describe the process of fertilization and the changes of the female body during pregnancy.
- 11. Understand the major functions of the placenta.
- 12. Explain how labor is initiated and describe the three stages of labor.
- 13. Describe the stages of human embryology and gestation including investigation of gestational and congenital disorders.
- 14. Discuss several agents that can interfere with normal fetal development.
- 15. Distinguish among the modes of inheritance and describe the events that lead to genetic variability of gametes.
- 16. List and explain several techniques used to determine or predict genetic diseases.
- 17. Explain how gender of offspring is determined.
- 18. Explain nondisjunction and identify a common disorder resulting from nondisjuntion.
- 19. Discuss the interaction between heredity and the environment.

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Length of Module: 1 week (minimum 16 hours)

#### **Resources needed**

Required A&P textbook and accompanying workbook, Medical-Terminology textbook, online resources, computer/digital device with internet access, use of Canvas learning management system (LMS), and embedded videos.

## Read

Thompson, Gale, Understanding Anatomy and Physiology, 2nd Edition, Chapter 23, "Reproductive Systems," Chapter 24, "Pregnancy & Human Development," and Chapter 25, "Heredity."

Finnegan, L., & Eagle, S. Medical Terminology in a Flash! A Multiple Learning Styles Approach., 3rd Edition, Chapter 11, "Reproductive System."

## Assessment

- Review session preparation/participation (6 hrs)
- Module 11 Objective Assignment (4 hrs)
- Module 11 Practice Test Assignment (2 hrs)
- Module 11 Study Session Assignment (1 hr)
- Module 11 Study Skills Assignment (1 hr)
- Microsoft Teams Tutorial (1 hr)
- Module 11 exam delivered via Canvas LMS (1 hr)