

Rajiv Gandhi University of Health Sciences, Karnataka

IV Semester B. Sc Nursing Degree Examination - 17-Dec-2025

Time: Three Hours

Max. Marks: 37

PATHOLOGY AND GENETICS

Q.P. CODE: 1786

(QP Contains Two Pages)

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

(Note: Both QP Codes 1785 and 1786 are to be answered within total duration of 3 hours)

(Note: Both Section B & C to be answered in the same booklet)

PATHOLOGY – SECTION – B (25 marks)

SHORT ESSAYS

3 x 5 = 15 Marks

1. Describe the process of inflammation and its role in the body's response to injury
2. Discuss the pathological mechanisms of atherosclerosis
3. Define transfusion reaction. List the types of reactions that can occur during a blood transfusion

SHORT ANSWERS

3 x 2 = 6 Marks

4. Define atrophy and hypertrophy
5. List two risk factors for breast cancer
6. Mention two indications for stool occult blood test

Multiple Choice Questions

4 x 1 = 4 Marks

7. Universal recipient blood group is
 - A. O Positive
 - B. A Negative
 - C. B Positive
 - D. AB Positive
8. Carcinoma of the cervix is primarily caused by
 - A. Herpes Simplex Virus
 - B. Human Papilloma Virus
 - C. Human Immunodeficiency Virus
 - D. Hepatitis B Virus
9. What is the primary mode of transmission of meningococcal meningitis?
 - A. Airborne droplets
 - B. Contaminated food or water
 - C. Sexual contact
 - D. Vector-borne transmission
10. A prolonged prothrombin time (PT) indicates
 - A. Malnutrition
 - B. Iron deficiency anemia
 - C. Cancer
 - D. Liver disease

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GENETICS – SECTION – C (12 marks)

SHORT ESSAYS

1 x 5 = 5 Marks

11. List the methods of prenatal diagnostic tests and explain the procedure of amniocentesis

SHORT ANSWERS

2 x 2 = 4 Marks

12. Define gene therapy
13. List any two functions of a genetic counsellor

Multiple Choice Questions

3 x 1 = 3 Marks

14. Part of the cell which contains genes is
A. Nucleus
B. Cytoplasm
C. Mitochondria
D. Ribosome
15. What is advanced maternal age in pregnancy?
A. 20-24 years old
B. 25-29 years old
C. 30-34 years old
D. 35 years and older
16. The primary goal of gene therapy is to
A. Prevent genetic mutations
B. Diagnose genetic disorders
C. Replace faulty genes with healthy ones
D. Enhance physical traits in individuals
