

Course Title: Pathophysiology

Placement: Second semester (First Year)

Course Code: BSN- 104

Total Hour: 50 (Theory),

Full Mark: 50

Pass Mark: 25

COURSE DESCRIPTION

This course will provide students the knowledge regarding pathological changes during diseases process/infection/trauma/neoplastic and degenerative changes.

COURSE OBJECTIVES

At the end of this course students will be able to:

- Explain the pathological changes during infection/trauma/neoplastic and degenerative.

COURSE CONTENTS

UNIT I: Introduction

6 hrs.

- Define basic terminologies
- Explain the general concepts of Necrosis, inflammation, Thrombosis, Embolism, Fracture healing, wound healing, shock, Oedema, Neoplasia, Antigen and Antibody Reaction, common auto immune disorders, basic genetic disorders.

UNIT II: Human Systems

Musculo Skeletal System

4 hours

- Explain the basic concepts of fractures Arthritics, Osteomyelitis/osteoporosis, leprosy, gout, muscular dystrophy, and myasthenia gravis.

Cardiovascular System

5 hours

- Explain the basic concepts of Rheumatic heart diseases, myocardial infarction, hypertension, atherosclerosis, heart failure, anemia, leukemia, hemophilia, idiopathic thrombocytopenic purpura (ITP)
- Explain immune deficiency disorders
- Define hypersensitivity reactions

Respiratory System 5 hours

- Explain the basic concepts of bronchitis, bronchial asthma, tuberculosis, COPD, Pneumonia, carcinoma lung

Gastrointestinal System 4 hours

- Explain the basic concepts of gastritis, peptic ulcer, intestinal TB, appendicitis carcinoma of stomach, hepatitis, cirrhosis, cholecystitis and cholelithiasis

Neurosensory System and special senses 4 hours

- Explain the basic concept of meningitis, epilepsy, encephalitis, conjunctivitis, Trachoma, Retinoblastoma, Xerophthalmia, otitis media and CSOM, deafness, cataract, and refraction error.

Renal and electrolyte System 4 hours

- Explain renal failure, Nephritis, Nephrotic syndrome, Renal stones, UTI, renal cell carcinoma, acidosis, alkalosis

Reproductive System 4 hours

- (Explain DUB, Abortions, Ectopic pregnancy) benign prostatic Hyperplasia (BEP), Carcinoma cervix.
- List different cause of breast lump

Endocrine System: 4 hours

- Nodular goitre, Diabetes mellitus, pheochromocytoma, thyroid disorder, parathyroid disorder, Cushing syndrome.

Integumentary System: 4 hours

- Basal cell carcinoma, squamous cell carcinoma, dermatitis, dermatophytes, warts

Reticulo-Endothelial System: Lymphomas 4 hours

TEACHING LEARNING ACTIVITIES

METHODS

- Lectures
- Discussion
- Demonstration
- Project work
- Presentation

MEDIAS

- White board
- OHP
- LCD

EVALUATION

- Class test
- Assignment

REFERENCES

1. *Stephen J. Mc Phee et. al, Patho-physiology of disease. International Ed. Mc Graw Hill, Lange Medical Books, Health Professional Div. Auckland, Tokyo.*
2. *Catherine Paradiso, Lippincott Review series, Pathophysiology 2nd Ed. Lippincott Com., New York, Balimore.*
3. *Latest/Recent Education Pathophysiology books for nurses.*
4. *Recent edition of the mention books and journals.*
5. *Internet*
6. *Research reports*