

**Second Basic B.Sc. Nursing Examination, Winter
(Phase - III All other remaining UG/PG Course) - 2019
PHARMACOLOGY, PATHOLOGY & GENETICS**

Total Duration : Section A + B + C = 3 Hours

Total Marks : 75

SECTION - A & SECTION - B, & SECTION - C

- Instructions :**
- 1) Use **blue/black** ball point pen only.
 - 2) **Do not** write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) **All questions are compulsory.**
 - 4) The number to the **right** indicates **full** marks.
 - 5) Draw diagrams **wherever** necessary.
 - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 - 7) Use a common answerbook for all sections.

SECTION - "A" (40 Marks)

(Pharmacology)

1. Short answer question (any five out of six) : **[5 × 5 = 25]**
- a) Define Bioavailability. Enumerate various factors affecting bioavailability.
 - b) Classify alpha blockers. Enumerate uses of alpha blockers.
 - c) Classify glucocorticoids. Enumerate adverse effects of glucocorticoids.
 - d) Classify oral anti-diabetic drugs and explain mechanism of action of sulfonylureas.
 - e) Enumerate anti-epileptic drugs. Discuss management of status epilepticus.
 - f) Explain in brief the role of beta 2 agonists in bronchial asthma.

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2. Long answer question (any one out of two) : [1 × 15 = 15]
- a) Enumerate beta-lactam group of antibiotics. Write mechanism of action, adverse effects and therapeutic uses of penicillin G.
 - b) Classify anti-hypertensive drugs. Explain in detail mechanism of action, adverse effects and advantages of angiotensin converting enzyme inhibitors in hypertension.

SECTION - "B" (29 Marks)
(Pathology)

3. Short answer question (any four out of five) : [4 × 5 = 20]
- a) Define Necrosis. Describe various types with examples.
 - b) Define Hyperplasia. Describe benign hyperplasia of prostate.
 - c) Describe clinical features and peripheral smear findings in Iron deficiency anaemia.
 - d) Describe primary complex of Tuberculosis.
 - e) Describe collection and examination of Semen and its importance in infertility.
4. Long answer question (any one out of two): [1 × 9 = 9]
- a) Define Healing. Describe various steps in cutaneous wound healing and factors affecting wound healing.
 - b) Define cirrhosis of liver. Give classification, clinical features and complications of cirrhosis.

SECTION - "C" (6 Marks)
(Genetics)

5. Short answer question (any two out of three) : [2 × 3 = 6]
- a) Turner's syndrome.
 - b) Autosomal dominant inheritance.
 - c) Enumerate neural tube defects.

