



62603

**Second Basic B.Sc. Nursing Examination, Winter 2018**  
**PHARMACOLOGY, PATHOLOGY AND GENETICS**

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

Total Marks : 75

- 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) Enumerate five antimalarial drugs. Write treatment regimens of uncomplicated vivax malaria. 2
  - b) Write therapeutic uses and adverse effects of anticholinergic drugs. 2
  - c) Write a note on antiplatelet drugs. 2
  - d) Write name of four benzodiazepines. Write their therapeutic uses and adverse effects. 2
  - e) Write a note on uterine stimulants. 2
  - f) Enumerate antiemetics. Write mechanism of action and adverse effects of any one of them. 2
  
2. Long answer question (**any one** out of two) : 10  
(1×15=15)
  - a) Enumerate various routes of drug administration along with suitable examples. Write advantages and disadvantages of intravenous route of drug administration. Write nursing responsibility during intravenous infusion of normal saline. 12
  - b) Enumerate Glucocorticoids. Write mechanism of action, therapeutic uses and adverse effects of glucocorticoids.

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SECTION - B (29 Marks)  
(Pathology)

(4x5=20)

3. Short answer question (any four out of five) :
- a) Define pneumonia. Mention the different stages and complications of lobar pneumonia. 2 1/2
  - b) Describe the gross and microscopic features of uterine leiomyoma. 3
  - c) Describe the laboratory diagnosis of diabetes mellitus. 2 1/2
  - d) Describe the differences between dry and wet gangrene. 2
  - e) Define thrombosis. Describe the fate of a thrombus. 2

(1x9=9)

4. Long answer question (any one out of two) :
- a) Classify breast tumours. Describe gross and microscopic features of infiltrating duct cell carcinoma. 5
  - b) Define neoplasia. Mention the routes of spread and laboratory diagnosis of neoplasia.

SECTION - C (06 Marks)  
(Genetics)

(2x3=6)

5. Short answer question (any two out of three) :
- a) Down Syndrome or Trisomy 21.
  - b) Chromosome Morphology. 3
  - c) X-Linked Recessive Inheritance.

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$$\begin{array}{r} 10 \\ 12 \\ \hline 22 \\ 18 \\ \hline 30 \end{array}$$

10  
8  
18



75

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**Second Basic B.Sc. Nursing Examination, Winter 2017**  
**PHARMACOLOGY, PATHOLOGY AND GENETICS**

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Total Marks : 75

**SECTION – A, SECTION – B & SECTION – C**

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**SECTION – A (40 Marks)**  
**(Pharmacology)**

1. Short answer question (**any five** out of six) : **(5×5=25)**
  - a) Define bioavailability. Enumerate any four factors affecting bioavailability of a drug.
  - b) Write uses and adverse effects of penicillins.
  - c) Write a short note on Oral Rehydration Solution (ORS).
  - d) Enumerate any five vaccines used for immunization of infant and children along with their route of administrations and schedule.
  - e) Write name of four anticholinergic drugs. Write their uses and adverse effects.
  - f) Enumerate any four Diuretics. Write uses and adverse effects of any one of them.
2. Long answer question (**any one** out of two) : **(1×15=15)**
  - a) Classify anti anginal drugs. Write treatment of Myocardial Infarction (MI). What are the nursing responsibilities in the management of myocardial infarction ?
  - b) Classify drugs used for treatment of diabetes. Write the mechanism of action, uses and adverse effects of any one of them. What are the nursing responsibilities during insulin administration ?

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SECTION - B (29 Marks)  
(Pathology)

(4×5=20)

3. Short answer question (any four out of five):
- a) What is primary complex? Give the fate of primary complex.
  - b) Mention sites of CSF collection, indications of CSF examination and describe microscopic features in bacterial meningitis.
  - c) Mention the gross and microscopic features of benign prostatic hyperplasia.
  - d) Mention the sites of bone marrow aspiration in adults and in infants. Mention the indications of bone marrow examination.
  - e) Describe the gross and microscopic features of chronic pyelonephritis.

(1×9=9)

4. Long answer question (any one out of two):

- a) Classify ovarian tumours. Describe gross and microscopy of benign cystic teratoma of ovary.
- b) Define neoplasia and write the differences between benign and malignant tumors.

SECTION - C (6 Marks)  
(Genetics)

(2×3=6)

5. Short answer question (any two out of three):

- a) Mendel's laws
- b) Steps of Karyotyping
- c) Turner's syndrome.



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Second Basic B.Sc. Nursing Examination, Winter 2016  
PHARMACOLOGY, PATHOLOGY AND GENETICS

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SECTION – A (40 Marks)

(Pharmacology)

1. Short answer question (any five out of six) : (5×5=25)
  - a) Mention five advantages of intravenous route of drug administration.
  - b) Enumerate disinfectants. What are the uses of Glutaraldehyde ?
  - c) What is Omeprazole ? Mention the uses of Omeprazole.
  - d) Give three examples of mucolytic agents. Explain the role of mucolytic agents in management of Bronchial Asthma.
  - e) What is the difference in vaccine and sera ? Describe the advantage of oral polio vaccine over injectable polio vaccine.
  - f) Enumerate and mention the role of any five drugs used as pre - anaesthetic medication.

P.T.O.



2. Long answer question (any one out of two) : (1x15=15)
- Enumerate commonly used opioid analgesics. Describe uses of morphine. What is the nurses' responsibility in a patient treated with morphine ?
  - Classify anti-tubercular drugs. Explain DOTS mentioning its importance and treatment strategy. What is the role of nurse before and after starting anti-tubercular drugs ?

SECTION – B (29 Marks)

(Pathology)

3. Short answer question (any four out of five) : (4x5=20)
- Give differences between benign and malignant tumours.
  - Describe etiology, pathology and complications of lung abscess.
  - Describe gross and microscopic features of Tuberculosis of lymph node.
  - Describe the method of blood grouping and its importance.
  - Describe causes, pathology and complications of Peptic ulcer.
4. Long answer question (any one out of two) : (1x9=9)
- Define thrombosis. Describe the pathogenesis and complications of thrombus formation.
  - Define inflammation. Describe the role of chemical mediators in inflammation.

SECTION – C (6 Marks)

(Genetics)

5. Short answer question (any two out of three) : (2x3=6)
- Morphology and classification of human chromosomes
  - Sex chromatin (Barr body)
  - Down syndrome (Trisomy 21).
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Second BASIC B.Sc. NURSING, Winter 2015

PHARMACOLOGY, PATHOLOGY & GENETICS

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Total Marks : 75

Section A Section B & Section C

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- 7) Use a common answer book for **all** Sections.

**Section "A" (40 Marks)**  
**Pharmacology**

1. Short answer questions (**any five** out of six) :

(5x5=25)

- a) Enumerate antiemetic drugs and write briefly on their use.
- b) Classify drugs used for bronchial asthma. Write a note on salbutamol.
- c) Explain why atropine is used in OPC poisoning and as pre-anesthetic medication.
- d) Classify Diuretics. Write a short note on Frusemide.
- e) Compare and contrast between Heparin and Warfarin.
- f) Describe in short uses of corticosteroids.

2. Long answer questions (**any one** out of two) :

(1x15=15)

- a) Classify analgesics. Write pharmacological actions, uses, adverse effects and contraindications of morphine.
- b) Classify B lactam antimicrobials. Write a mechanism of action, uses and ADRs of Cephalosporins.

**Section "B" (29 Marks)**  
**Pathology**

3. Short answer questions (**any four** out of five) :

(4x5=20)

- a) Define metaplasia. Give one example of each type.
- b) Define shock. Classify shock. Enumerate four causes of cardiogenic shock.
- c) Define karyotype. Describe two cytogenetic disorders involving sex chromosomes.
- d) Define leiomyoma of the uterus. Describe its morphological features.
- e) Enumerate the CSF findings in a case of pyogenic meningitis.

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4. Long answer questions (any one out of two) :

(1x9=09)

- a) Define thrombus. Discuss the etiology and pathogenesis of thrombus formation.
- b) Classify Hodgkins Lymphoma. Describe clinical features. Describe morphology of its various types.

**Section "C" (06 Marks)**  
**Genetics**

5. Short answer questions (any two out of three) :

(2x3=06)

- a) Mendels laws
- b) Turners syndrome
- c) Autosomal dominant inheritance