# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – APRIL-2019

Time: Two Hours | Max. Marks: 35 Marks

## NURSING FOUNDATION
## (RS–3 & RS-4)

## Q.P. CODE: 1731

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Explain the expanded role of a Nurse.
2. Explain the ethical principles that the nurse must consider when providing care to the patient.

SHORT ESSAYS (Answer any Three) 3 x 5 = 15 Marks

3. Explain the trends in Nursing education.
4. Explain the needs of an infant.
5. Explain the factors influencing the health and illness.
6. Explain the metaparadigm of Nursing.

SHORT ANSWERS 5 x 2 = 10 Marks

7. Define nursing process.
8. List the types of hospital wastes.
9. Define nursing audit.
10. List any four problems of old age
11. List the types of records maintained in the hospital.

# Rajiv Gandhi University of Health Sciences, Karnataka

## I Year B.Sc. Nursing (PC) Degree Examination – APRIL-2019

Time: Two Hours | Max. Marks: 35 Marks

### Nutrition and Dietetics
### (RS–3 & RS-4)
### Q.P. CODE: 1732

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

**LONG ESSAYS (Answer any One)** — 1 x 10 = 10 Marks

1. What is Balanced Diet? Mention the factors that affect Balanced Diet.
2. Explain in detail the method of nutrition education in the community and Hospital

**SHORT ESSAYS (Answer any Three)** — 3 x 5 = 15 Marks

3. Explain the role of a Nurse in importance of Breast feeding.
4. What are the various ways to assess the nutritional status?
5. What is PEM and how it can be prevented?
6. Vitamin A deficiency and control.

**SHORT ANSWERS** — 5 x 2 = 10 Marks

7. Composition of breast milk.
8. What is overcooking of food?
9. What is adulteration of food?
10. Sources of Vitamin C.
11. What are micronutrients give example.

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – APRIL-2019

Time: Three Hours | Max. Marks: 75 Marks

## PSYCHOLOGY (RS–3 & RS-4)

Q.P. CODE: 1734

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Define Learning. Explain the laws of learning.
2. What is 'Mental Health'? Explain the characteristics of a mentally healthy person.
3. Define perception. Explain the principles of perception.

SHORT ESSAYS (Answer any Seven) 7 x 5 = 35 Marks

4. Explain the types of conflicts.
5. Describe 'Unpleasant emotions'.
6. Explain Jung's classification of personality.
7. Role of attitude in health and sickness
8. Explain the determinants of attention.
9. Trial and error theory of learning
10. Explain the types of memory.
11. What are the tests of intelligence?
12. Importance of environment in behavior change

SHORT ANSWERS 10 x 2 = 20 Marks

13. Parapsychology
14. Paraesthesia
15. Stress
16. Sublimation
17. Ambivert
18. Types of genes
19. Concept of IQ and its formula
20. Conditioned Response
21. Mnemonics
22. Types of distraction

*****

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – APRIL-2019

Time: Three Hours | Max. Marks: 75 Marks

## Microbiology
## (RS–3 & RS-4)
## Q.P. CODE: 1735

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Classify immunity. Discuss in detail innate immunity.
2. Write causative agents of Sexually Transmitted Diseases. Describe morphology and laboratory diagnosis in a case of gonorrhoea.
3. Name the malarial parasites. Explain the life cycle and laboratory diagnosis of plasmodium falciparum.

SHORT ESSAYS (Answer any Seven) 7 x 5 = 35 Marks

4. Bacillary dysentery
5. Laboratory diagnosis of Urinary Tract infection
6. Autoclave – principle, working, uses, controls
7. Bacterial spore
8. ELISA
9. Precipitation reaction
10. Fumigation
11. Ankylostoma duodenale – life cycle and laboratory diagnosis
12. DPT vaccine

SHORT ANSWERS 10 x 2 = 20 Marks

13. Satellitism
14. Two bacteria causing food poisoning
15. Albert stain
16. Transport media – definition and example
17. Name two live attenuated vaccines
18. Draw a neat labelled diagram of Immunoglobulin G
19. Oral thrush
20. LPCB mount
21. Name two parasites transmitted through feco-oral route
22. Name two DNA viruses

*****

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – APRIL-2019

Time: Three Hours | Max. Marks: 75 Marks

## MATERNAL NURSING
## (RS–3 & RS-4)
## Q.P. CODE: 1736

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. a) Define amniotic fluid embolism.
   b) Explain the causes, risk factors and pathology of amniotic fluid embolism.
   c) Draw a nursing care plan for mother with obstetric shock. (2+4+4)
2. a) Define MTP Act.
   b) Describe the causes, risk factors and preventive measure of septic abortion.
   c) Explain the medical, surgical and nursing management of septic abortion in 2nd trimester. (2+4+4)
3. a) Define pregnancy-induced hypertension.
   b) Explain the causes, risk factors and diagnosis of PIH.
   c) Draw a nursing care plan for PIH mother in third trimester. (2+5+3)

SHORT ESSAYS (Answer any Seven) 7 x 5 = 35 Marks

4. Explain the legislation related to maternity benefits.
5. Describe the fetal development from 0-24 weeks.
6. Explain the signs, symptoms and diagnosis test that confirm pregnancy.
7. Describe care of high-risk newborn in NICU.
8. Explain the causes, diagnosis and treatment for vesicular mole.
9. Illustrate medical and nursing management of abruptio placenta.
10. Explain the indications, action of tocolytics used in obstetrics.
11. Describe the medical and nursing management of breast infections.
12. Explain the Maurie Smelli Veit maneuver.

SHORT ANSWERS 10 x 2 = 20 Marks

13. Define maternal morbidity rate.
14. Write any two differences between gynaecoid and android pelvis.
15. List any five cardiovascular changes in pregnancy.
16. Define exclusive breast-feeding.
17. Define HELLP syndrome.
18. Define obstructed labour.
19. Define atonic uterus.
20. List the types of incisions used in caesarean section.
21. Write the action of magnesium sulphate in obstetrics.
22. Draw the diagram of ovum and label its parts.

*****

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – APRIL-2019

Time: Three Hours | Max. Marks: 75 Marks

## Child Health Nursing

(RS–3 & RS-4)

## Q.P. Code : 1737

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Explain the pre and post operative care of a newborn with congenital hypertrophic pyloric Stenosis.

2. Master Raju, 10 months old infant is admitted with acute gastroenteritis with 10% dehydration.
   a) Write the clinical manifestation of dehydration in children. (4)
   b) Explain the medical and nursing management of child with gastroenteritis. (6)

3. Master Sonu 10 year old child having three younger siblings is admitted in the hospital and has been diagnosed as a case of rheumatic fever.
   a) State the signs and symptoms of rheumatic fever.
   b) Enumerate the medical and nursing management of Master Sonu with rheumatic fever.

7 x 5 = 35 Marks

SHORT ESSAYS (Answer any Seven)

4. Illustrate the nursing management of PEM.
5. Explain Respiratory Distress Syndrome.
6. Explain Colostomy care.
7. Describe Child Welfare Agencies.
8. Explain the role of a nurse in managing physically challenged children.
9. Describe the care of a child with Thalassemia.
10. Define Growth chart. Enumerate its importance.
11. Explain the management of hemophilia.
12. Illustrate the nursing management of meningitis.

10 x 2 = 20 Marks

SHORT ANSWERS

13. Define Child abuse.
14. Mention any four principles of growth and development.
15. Mention the clinical features of Down's Syndrome.
16. Enlist the types of anaemia.
17. Mention the signs and symptoms of Asphyxia neonatorum
18. List the signs and symptoms of second degree burns.
19. List the Sources of vitamin 'D'.
20. Mention the complications of Phototherapy.
21. Write the meaning and indications of Exchange Blood Transfusion.
22. List the clinical features of Mumps.

*****

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – APRIL-2019

Time: Three Hours | Max. Marks: 75 Marks

## MEDICAL SURGICAL NURSING
## (RS–3 & RS-4)

## Q.P. CODE: 1738

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Mr. Anil aged 66 years, got admitted with the history of weakness of one side of body, slurred speech, drooling of saliva and is diagnosed to have cerebro vascular accident (CVA).
   a) List the causes of cerebro vascular accident
   b) Name two drugs with their specific action which are used in the management of a patient with CVA
   c) Describe the nursing management of patient with CVA
2. Mrs. Beena, 55yrs old female is admitted in the ICU with 55% of burns. The weight of the patient is 45 kg.
   a) Classify burns and explain the degrees of burns
   b) Calculate the fluid requirement for Mrs. Beena for First 24hrs using Parkland formula
3. Mrs. Usha is admitted to the ward with the diagnosis of asthma
   a) Define bronchial asthma
   b) Explain the medical management of a patient with acute attacks of asthma
   c) Briefly explain the nursing management

SHORT ESSAYS (Answer any Seven) 7 x 5 = 35 Marks

4. Explain the rehabilitation of patient with laryngectomy.
5. Explain the dietary management of patient with diabetes mellitus.
6. Describe the complications of cirrhosis of liver.
7. Explain the procedure of cardiopulmonary resuscitation according to 2013 guidelines.
8. Describe the roles and responsibilities of a nurse in an intensive care unit.
9. Describe the pulmonary rehabilitation of COPD patient
10. Explain the pathophysiology of tuberculosis.
11. Describe the stages of fracture healing.
12. Enumerate the four causes of intestinal obstruction.

SHORT ANSWERS 10 x 2 = 20 Marks

13. Differentiate between Billroth I and Billroth-II procedure
14. List four types of surgeries for benign prostatic hypertrophy
15. Write the meaning of opportunistic infection
16. Give examples of isotonic solution
17. Classify antihypertensive drugs
18. List the principles of hemodialysis
19. Define sinusitis
20. List the indications for colostomy.
21. Define hyperglycemia
22. Differentiate between concussion and contusion

*****

# Rajiv Gandhi University of Health Sciences, Karnataka

I year B.Sc. Nursing (PC) Degree Examination – APRIL-2019

Time: 3 Hours | Max. Marks: 38 Marks

## Biochemistry

## Q.P. Code : 1739

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
(Note : Both QP Codes 1739 and 1740 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Describe transamination reaction and the formation of ammonia by glutamate Dehydrogenase by urea cycle
2. Describe aerobic Glycolysis. Add a note on its bioenergetics

SHORT ESSAYS (Answer any Four) 4 x 5 = 20 Marks

3. Give an account of digestion and absorption of carbohydrates
4. Ketogenesis
5. Explain enzymy inhibition in detail
6. Functions of lipids
7. Heteropolysaccharides

SHORT ANSWERS 4 x 2 = 8 Marks

8. Essential amino acids
9. Marker enzymes of myocardial infarction
10. Fatty liver
11. Write the normal range of (a) Serum total protein (b) Serum total bilirubin

*****

I year B.Sc. Nursing (PC) Degree Examination – APRIL-2019

Time: 3 Hours | Max. Marks: 37 Marks

## Biophysics

## Q.P. Code : 1740

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
(Note : Both QP Codes 1739 and 1740 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 9 = 9 Marks

1. Describe simple machines with examples.
2. What is blood pressure? Give the principles and working of sphygmomanometer.

SHORT ESSAYS (Answer any Four) 4 x 5 = 20 Marks

3. Give the application of lasers in medicine.
4. Discuss scales of temperature.
5. Discuss the modes of heat transfer.
6. Discuss line and centre of gravity of a human body.
7. Give structure and working principle of autoclave.

SHORT ANSWERS 4 x 2 = 8 Marks

8. What is least distance of distinct vision?
9. What is humidification of air?
10. What are the uses of MRI?
11. What are the systems of units that are being used so far?

*****

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – SEP-2019

Time: Two Hours | Max. Marks: 35 Marks

## NURSING FOUNDATION
## (RS–3 & RS-4)
## Q.P. CODE: 1731

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. a) Define profession.
   b) Explain nursing is a profession by applying criteria of a profession. (2+8)
2. Describe the factors influencing health and illness.

SHORT ESSAYS (Answer any Three) 3 x 5 = 15 Marks

3. Write the importance of theories in nursing practice.
4. Explain briefly the components of planning phase of nursing process.
5. Explain the process of nursing audit.
6. Explain nurse's role in biomedical waste management.

SHORT ANSWERS 5 x 2 = 10 Marks

7. Define health.
8. Mention the developmental needs of a toddler.
9. List down any four ethical principles in nursing
10. Define Total Quality Management
11. Define stress.

*****

I Year B.Sc. Nursing (PC) Degree Examination – OCT-2019

Time: Two Hours | Max. Marks: 35 Marks

## Nutrition and Dietetics
## (RS–3 & RS-4)
## Q.P. CODE: 1732

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. List the nutritional problems in India and explain the role of a nurse in national nutritional programmes.
2. Define therapeutics diet. Explain therapeutic diet for cardiovascular diseases.

SHORT ESSAYS (Answer any Three) 3 x 5 = 15 Marks

3. Food standards.
4. Preservation of food.
5. Food hygiene.
6. What are the various ways to assess the nutritional status?

SHORT ANSWERS 5 x 2 = 10 Marks

7. Weaning.
8. Malnutrition.
9. Methods of storage of food.
10. What is balanced diet?
11. Macronutrients.

*****

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – OCT-2019

Time: Three Hours | Max. Marks: 75 Marks

## PSYCHOLOGY

(RS–3 & RS-4)

Q.P. CODE: 1734

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Define Personality. Explain FREUD's Psychoanalytic theory of Personality.
2. Define Psychology. Discuss scope of Psychology and enumerate its application to nursing.
3. Define Learning. Explain Pavlov's classical conditioning theory and its application.

SHORT ESSAYS (Answer any Seven) 7 x 5 = 35 Marks

4. Explain the role of heredity and environment in individual differences.
5. Illusion and Hallucination.
6. Theories of Forgetting. How to improve memory.
7. Experimental method.
8. Measurement of Attitudes.
9. Define attention. Explain types of Attention.
10. Tests of intelligence and its uses.
11. Characteristics of a mentally healthy person.
12. Theories of Motivation.

SHORT ANSWERS 10 x 2 = 20 Marks

13. 'TYPES' of personality.
14. Mnemonics.
15. Anger.
16. Self actualization.
17. Instincts.
18. Amnesia.
19. Conflicts.
20. Coping with stress.
21. Defense mechanisms.
22. Motivation Cycle.

*****

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – OCT-2019

Time: Three Hours | Max. Marks: 75 Marks

## Microbiology
## (RS–3 & RS-4)
## Q.P. CODE: 1735

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Define sterilization. Describe different methods of dry heat sterilization.
2. Describe in detail laboratory diagnosis of syphilis.
3. Describe morphology and life cycle of Entamoeba histolytica. Write in detail the laboratory diagnosis of intestinal amoebiasis.

SHORT ESSAYS (Answer any Seven) 7 x 5 = 35 Marks

4. Laboratory diagnosis of cholera
5. Bacterial meningitis
6. Bacterial growth curve
7. Compare and contrast poliomyelitis vaccines
8. Agglutination reactions
9. Classify fungi with examples
10. Antibiotic susceptibility testing
11. Methods of anaerobic culture
12. Laboratory diagnosis of Cryptococcal meningitis

SHORT ANSWERS 10 x 2 = 20 Marks

13. Weil Felix test
14. Name two bacteria causing wound infections
15. Selective media – definition with one example
16. Robert Koch
17. Herd immunity
18. Dimorphic fungi
19. Name two chemical sterilizing agents
20. Draw a neat labelled diagram of ova of hookworm
21. Name two RNA viruses
22. Methods of demonstrating bacterial motility

*****

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – OCT-2019

Time: Three Hours | Max. Marks: 75 Marks

## MATERNAL NURSING
## (RS–3 & RS-4)
## Q.P. CODE: 1736

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Define Normal Labour? Explain the physiological changes of first stage of labour.
2. Enlist the causes of anaemia during pregnancy and describe the management of Iron deficiency anaemia.
3. Describe the management of Assisted Breech delivery.

SHORT ESSAYS (Answer any Seven) 7 x 5 = 35 Marks

4. Describe on planned parenthood.
5. Explain Gynaecoid pelvis in detail.
6. Describe the management of pregnant woman with HIV positive during labour.
7. Describe the physiology of lactation.
8. Enumerate the fetal and maternal complication of gestational diabetes mellitus.
9. Describe on National Family Welfare Programme.
10. Explain Ergometrics in detial.
11. Explain the methods of placental expulsion.
12. Write briefly the care of a pre-mature neonate.

SHORT ANSWERS 10 x 2 = 20 Marks

13. Define Hydatidiform mole.
14. List the longitudinal diameters of fetal skull.
15. Define neonatal jaundice.
16. Mention four indications for induction of labour.
17. List four indications for vaginal examination.
18. Define hyperbilirubinaemia.
19. What is unwed mother?
20. Define VVF.
21. List four aims of antenatal care.
22. What are the signs of crowning

*****

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – OCT-2019

Time: Three Hours | Max. Marks: 75 Marks

## Child Health Nursing

(RS–3 & RS-4)

## Q.P. Code : 1737

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Describe the national programmes related to child health and welfare.

2. Illustrate the differences between an adult and child in:
   a) Cardio vascular system. (3)
   b) Gastrointestinal systems. (4)
   c) Immunologic system. (3)

3. a) List the neurological disorders of children. (2)
   b) Explain the Clinical features of hydrocephalus. (3)
   c) Write the Nursing care of 2 year old child with V.P. Shunt. (5)

SHORT ESSAYS (Answer any Seven) 7 x 5 = 35 Marks

4. Write the management of School Child with behavioural problems.
5. Explain the clinical features of Chicken pox and its management.
6. Enumerate the prevention of infection in the nursery.
7. Describe the care of the toddler with 70% burns.
8. Illustrate the child-to-child concept.
9. Explain Reflexes of the newborn.
10. Explain the vitamin A deficiency disorders.
11. Enumerate the Value of play & organization of play activities for children at hospital.
12. Explain the management of Tetrology of Fallot.

SHORT ANSWERS 10 x 2 = 20 Marks

13. List the four types of heat loss in the newborn
14. Mention the clinical features of Glomerulonephritis.
15. Mention the needs of an infant.
16. Define Haemophilia.
17. Define Status Asthmaticus.
18. State the meaning of Down's Syndrome & its causes.
19. Mention the Psychosocial development of adolescent.
20. Define Kernicterus.
21. Define club foot.
22. Differentiate between associative play & co-operative play.

*****

# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PB) Degree Examination – OCT-2019

Time: Three Hours | Max. Marks: 75 Marks

## MEDICAL SURGICAL NURSING
## (RS–3 & RS-4)

## Q.P. CODE: 1738

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Mr. John diagnosed as Chronic renal failure is advised to undergo haemodialysis.
   (a) Brief the mechanism behind hemodialysis
   (b) Explain the nursing management of hemodialysis
   (c) Prepare a health education plan on home care management of hemodialysis patient.
2. As the worldwide incidence of hypertension is increasing day by day
   (a) Enlist the etiology and clinical features of hypertension
   (b) Write in detail the prevention of complications in hypertension.
3. Mr. Ram is admitted to the emergency ward with rib fracture and chest injuries.
   (a) Explain the emergency management of chest injuries.
   (b) Write the pulmonary rehabilitation techniques.

SHORT ESSAYS (Answer any Seven) 7 x 5 = 35 Marks

4. Explain the management of patient with the increased intra cranial pressure.
5. Describe the different treatment modalities for cancer.
6. Explain the management of patient with hip fracture.
7. Explain the Antituberculosis drugs.
8. Define Malabsorption syndrome and explain the collaborative management of it.
9. Explain the causes and management of Tonsilitis.
10. Explain the biomedical waste management followed in caring of HIV positive client.
11. Describe the management of patient with diabetes foot.
12. Explain the pathophysiology and management of hepatic coma patient.

SHORT ANSWERS 10 x 2 = 20 Marks

13. Define Atelectasis.
14. List the complications of Phlebotomy.
15. Define Bursitis.
16. List the clinical manifestation of Parkinson’s disease.
17. List the Cardiac enzymes.
18. What is Presbyopia?
19. What is Stereotactic procedure?
20. Define Quinsy.
21. Define Diverticulosis.
22. What is halograft?

*****

# Rajiv Gandhi University of Health Sciences, Karnataka

I year B.Sc. Nursing (PC) Degree Examination – OCT-2019

Time: 3 Hours | Max. Marks: 38 Marks

## Biochemistry

## Q.P. Code: 1739

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
(Note : Both QP Codes 1739 and 1740 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 10 = 10 Marks

1. Define Gluconeogenesis. Describe the pathway of gluconeogenesis in detail.
2. Write the steps involved in the synthesis of urea. Add a note on its regulation.

SHORT ESSAYS (Answer any Four) 4 x 5 = 20 Marks

3. Electrolytes of human body and their functions.
4. Explain in detail about fluid mosaic model.
5. Biomedical importance of proteins.
6. The steps of Hexose Monophosphate Pentose (HMP) pathway and its significance.
7. Describe the process of transport mechanism across the cell membrane.

SHORT ANSWERS 4 x 2 = 8 Marks

8. What is lactose intolerance?
9. What is phosphorylation?
10. Essential amino acids.
11. Write the normal values of HDL, LDL, VLDL in the blood.

*****

I year B.Sc. Nursing (PC) Degree Examination – OCT-2019

Time: 3 Hours | Max. Marks: 37 Marks

## Biophysics

## Q.P. Code : 1740

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary
(Note : Both QP Codes 1739 and 1740 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) 1 x 9 = 9 Marks

1. List focusing elements of eye. Explain defects of vision and their corrections.
2. What are X rays? How are they produced? List the properties and uses of x-rays in clinical practice.

SHORT ESSAYS (Answer any Four) 4 x 5 = 20 Marks

3. Distinguish between fundamental units and derived units.
4. Pacemaker
5. Explain the applications of ultrasound in nursing
6. Applications of principles of gravity in nursing
7. What is noise pollution? How it can be prevented?

SHORT ANSWERS 4 x 2 = 8 Marks

8. Normal Blood Pressure
9. What is inclined plane?
10. What are radio active isotopes?
11. Define acceleration, mention its unit

*****