Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – May 2016

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 Nursing Process
   b) List the steps of nursing process
   c) Explain the techniques of planning patient care (2+3+5)
2. a) Define primary health care
   b) Explain the concept and scope of community oriented nursing (2+8)

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

3. Illustrate health illness continuum
4. Describe the role of a nurse in bio-medical waste management
5. Enumerate the ethical principles in nursing
6. Describe the Meta paradigm of nursing

SHORT ANSWERS — 5 x 2 = 10 Marks

7. State the meaning of adaptation
8. List four problems of old age
9. Define quality assurance
10. List four functions of INC
11. List two characteristics of profession

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – May 2016

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. Define diet therapy. Describe the therapeutic diet in renal disorders. Plan a therapeutic diet for a 60 year old lady admitted in the hospital with Chronic Renal failure. (2+4+4)
2. Explain the need the community nutrition programs. Discuss the methods of assessing nutritional status of individuals and groups in the community.

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

3. Describe the factors to be considered in Menu Planning.
4. Explain the process of introducing Supplementary feeding in infants.
5. Describe the nutritional management of Kwashiorkar and Marasmus.
6. Explain the National Nutritional Anemia Control Program.

SHORT ANSWERS 5 x 2 = 10 Marks

7. Define food hygiene.
8. List the macronutrients.
9. Enumerate 4 signs of Vitamin D Deficiency.
10. List any 4 methods of nutrition education.
11. List the advantages of School Lunch Program.

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – MAY 2016

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 the theories of Personality.
2. What are defence Mechanism. Explain any five defence mechanism.
3. Discuss the role of Heredity and Environment in the development of Human behavior.

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

4. Describe factors of Perception.
5. Theories of Intelligence
6. Discuss the factors influencing creativity.
7. Scope of Psychology
8. Classify Motives
9. Measurement of Attitudes.
10. Theories of Emotions.
11. Define forgetting. Discuss Biological causes of forgetting.
12. Define Conflicts. Explain the types of conflicts.

SHORT ANSWERS 10 x 2 = 20 Marks

13. Introspection
14. Identical and Fraternal Twins
15. Projective Techniques.
16. Types of Intelligence
17. Rating scales
18. Frustration
19. Attention
20. Clinical Psychology
21. Promotion of Mental Health
22. Psychological needs of Children.

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – MAY 2016

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. Describe innate immunity.
2. Classify hepatitis viruses. Describe the pathogenecity and laboratory diagnosis of Hepatitis B virus.
3. List the malarial parasites. Describe the life cycle and laboratory diagnosis of P.falciparum.

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

4. Cell mediated immunity
5. Blood culture
6. Widal test
7. Bacterial toxin
8. Laboratory diagnosis of post streptococcal sequelae
9. Bacterial growth curve
10. Anaphylaxis
11. Laboratory diagnosis of fungal infections
12. Prophylaxis in Rabies

SHORT ANSWERS 10 x 2 = 20 Marks

13. Name 2 methods of pasteurization.
14. Name 2 bacteria causing wound infection.
15. Hapten
16. Name the hospital infectious diseases.
17. Name 2 methods for cultivation of viruses.
18. Draw a neat and labeled diagram of IgG.
19. Draw a neat and labeled diagram of A lumbricoides ova.
20. Name 2 opportunistic fungal infections.
21. Name 2 protozoal parasites causing diarrhea.
22. Name the different genera of dermatophytes.

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – MAY 2016

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 Partograph.
   b) Explain how you will use partograph effectively during intranatal period.
2. a) What is Newborn care?
   b) Explain the immediate care of the Newborn.
3. a) Define Ectopic pregnancy.
   b) Enumerate the types of Ectopic pregnancy.
   c) Plan the postoperative nursing care of a woman with Ectopic pregnancy using nursing process.

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

4. Explain Natural family planning methods.
5. Explain the causes of rupture of uterus.
6. What are the functions of placenta?
7. Enumerate the birth injuries of the newborn.
8. Explain the physiological changes during postpartum period.
9. Explain role of nurse in management of puerperal sepsis.
10. Define multiple pregnancy and State the clinical features and its complications.
11. Develop a clinical teaching plan for antenatal women to prevent iron deficiency anemia.
12. Explain Burns Marshall method.

SHORT ANSWERS 10 x 2 = 20 Marks

13. List the indications of episiotomy.
14. What are the types of lochia?
15. Define menopause.
16. What is Osiander's sign?
17. List the barrier methods of contraception.
18. What are the aims of antenatal care?
19. Define abortion and classify the types of abortion.
20. List types of pelvis.
21. Define crowning.
22. Write the clinical features of pre eclampsia and eclampsia.

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – May 2016

Time: Three Hours | Max. Marks: 75 Marks

ChildHealthNursing

(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. a) Define Bronchopneumonia.
   b) Enlist the clinical features of Bronchopneumonia in a 2 year old child.
   c) Explain the nursing management of a 5 year old child with Bronchopneumonia, stating the nursing problems on priority.
2. a) Classify the degree of burns
   b) Explain in detail, the medical and nursing management of a 5 year old child who has sustained burns.
3. a) Define Rheumatic fever.
   b) Describe the clinical manifestations of Rheumatic fever
   c) Explain the nursing management of a 7 year old child, stating the problems on priority

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

4. Illustrate the Care of newborn
5. Explain about the Child guidance clinic
6. Describe the Midday meal programme
7. Explain the Care of neonate under phototherapy
8. Illustrate the importance of Play in preschoolers
9. Write the nursing management of nephrotic syndrome
10. Explain Immunization schedule
11. Explain the management of dehydration
12. List the types of club foot and explain the management

SHORT ANSWERS 10 x 2 = 20 Marks

13. Define Rooting reflex
14. Mention the cause and prevention of Beriberi
15. Define Juvenile delinquency
16. State the meaning and purpose of Pulse polio immunization programme
17. Mention the causes of Accidents in toddler
18. Define Enuresis
19. Define Kernicterus
20. State the disorders of TOF
21. Classify PEM
22. List the types of fractures in children.

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – MAY 2016

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. a) Define and classify Cerebro-Vascular Accident.
   b) Describe the pathophysiological changes with clinical manifestation.
   c) Explain the management of CVA with role of nurse in educating the patient on home management.
2. a) Define burns and state its classification.
   b) Discuss on pathophysiology of burns with clinical manifestation.
   c) Describe the fluid management of burns for first 24 hours.
3. Mrs. Revathi, aged 48 years, came to the hospital with the history of dyspnea, cough, and wheeze.
   a) Discuss on the causes and risk factors of COPD, with pathophysiological changes.
   b) Describe the intensive management of COPD for first 24 hours.

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

4. Shock and its management
5. Poisoning and its first aid management
6. Postoperative complications and its management
7. Pleural effusion
8. Fluid and Electrolyte imbalances
9. Diabetes Mellitus
10. Ischemic Heart Disease
11. Surgical approaches of peptic ulcer
12. AIDS (Acquired Immune Deficiency Syndrome)

SHORT ANSWERS 10 x 2 = 20 Marks

13. Cardiac Monitors
14. Benign Prostatic hypertrophy
15. Pneumonia
16. Hypertensive crisis
17. Types of anaesthesia
18. Hemorrhoids
19. Urinary incontinence
20. Traction
21. Pacemaker
22. Inflammation

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Rajiv Gandhi University of Health Sciences, Karnataka

I year B.Sc. Nursing (PC) Degree Examination – MAY 2016

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:BothQPCodes1739and1740aretobeansweredwithintotalduration of 3hours)

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

1. Give an account of digestion and absorption of carbohydrates.
2. Define Oxidative Phosphorylation. Describe the components of Electron transport chain.

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

3. Discuss various factors affecting the rate of enzyme catalyzed reactions.
4. Structure and functions of Cholesterol.
5. What are Plasma proteins? Mention their functions.
6. Define Gluconeogenesis and mention its significance.
7. Give account of digestion of proteins.

SHORT ANSWERS (Answer All) 4 x 2 = 8 Marks

8. Normal levels of a) Blood Urea b) Serum calcium.
9. Name two Glycogen storage diseases.
10. Name two clinically important enzymes.
11. Name two Purine and two Pyrimidine bases.

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Rajiv Gandhi University of Health Sciences, Karnataka

I year B.Sc. Nursing (PC) Degree Examination – MAY 2016

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. Discuss visual defects of human eye.
2. Discuss physiological effects of heat.

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

3. What are scalar and vector quantities?
4. What are density and specific gravity?
5. Write a note on vocalization & hearing.
6. Discuss law of conservation of energy.
7. What are X-rays? How they are produced? Give its uses.

SHORT ANSWERS 4 x 2 = 8 Marks

8. What is Laser?
9. Give the relation between energy and wavelength.
10. What is systolic and diastolic blood pressure?
11. Convert 1.5 Ton to Kilogram.

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – SEP-2016

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 assessment
   b) Explain the methods and tools of assessment in detail (2+8=10Marks)
2. a) Describe the Growth and developmental stages of an adolescent
   b) Explain in detail about the problems of an adolescent (5+5=10Marks)

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

3. Explain the legal issues in Nursing.
4. Describe the role of professional bodies in maintenance of nursing standards.
5. Explain the process of Nursing audit.
6. Explain the role of a nurse in biomedical waste management.

SHORT ANSWERS 5 x 2 = 10 Marks

7. State the responsibilities of a graduate nurse.
8. Enlist the causes of stress in Nursing.
9. State the meaning of progressive patient care.
10. Define profession.
11. Define quality assurance.

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – SEP 2016

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. a) Define nutrition.
   b) Explain the various methods of assessing nutritional status of individual and community. (2+8)

2. a) Define weaning.
   b) Discuss the points to be remembered while weaning.
   c) Prepare a weaning schedule. (2+5+3)

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

3. ICDS programme
4. Write the functions, requirements and deficiency of Vitamin-D.
5. Protein energy malnutrition.
6. Food adulteration and its prevention

SHORT ANSWERS 5 x 2 = 10 Marks

7. Micronutrients
8. Dehydration
9. Food hygiene
10. Grilling
11. Dietary sources of Calcium

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – SEP-2016

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. Discuss the theory of classical conditioning.
2. Define perception. Explain errors of perception in detail
3. Define psychology. Discuss relevance of psychology in nursing.

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

4. Characteristics of mentally healthy person
5. Explain the steps of problem solving
6. Explain varieties of attention
7. Discuss individual differences
8. Laws of learning
9. Explain methods of improving memory
10. Explain the factors affecting mental health
11. What are the types of thinking
12. Types of intelligence tests

SHORT ANSWERS 10 x 2 = 20 Marks

13. Aptitude test
14. Introspection
15. Conflict
16. Rationalization
17. Attitudes
18. Define emotion
19. Personality
20. Transfer of learning
21. Ivan Pavlov
22. Social motives

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – SEP 2016

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. Describe the morphology, life cycle and laboratory diagnosis of Entamoeba histolytica.
2. Classify streptococci. Describe the pathogenecity and laboratory diagnosis of streptococci pyogens.
3. Define and classify Immunity. Describe innate immunity.

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

4. Autoclave
5. Hepatits B virus
6. Bacterial spore structure and functions.
7. Gram staining – principle and procedure
8. Differences between Bacteria and viruses
9. Ascaris lumbricoides – life cycle, clinical features and lab diagnosis
10. Laboratory diagnosis of pulmonary tuberculosis
11. Write a note on koch's postulates
12. ELISA and its uses

SHORT ANSWERS 10 x 2 = 20 Marks

13. Write any two dermatophytes
14. Name any two bacterial filters
15. Name any two neurotropic viruses
16. Draw a neat labeled diagram of viruses
17. What are Antibodies?
18. Name any two tapeworms
19. Define Hypersensitivity
20. Define chemotherapy
21. Name any two transport media
22. Mention any two zoonotic bacterial diseases

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – SEP 2016

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 Atonic postpartum haemorrhage.
   b) List the causes of atonic postpartum haemorrhage
   c) Explain the role of a nurse in management of atonic PPH.
2. a) Define pre eclampsia.
   b) Enumerate the clinical features and complications of pre eclampsia.
   c) Describe the management of pre eclampsia.
3. a) Define hysterectomy.
   b) List the types and indications of hysterectomy.
   c) Explain the pre operative preparation for hysterectomy.

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

4. Discuss the Birth injuries of new born baby.
5. Enumerate the causes and management of cord prolapse.
6. Describe the Post operative care of caesarean section.
7. Explain the management modalities of MTP.
8. Discuss the Tocolytic agents used in obstetrics.
9. Explain Intranatal management of Assisted Breech delivery.
10. Explain the Management of Molar pregnancy.
11. Enumerate the Diameters of Gynaecoid pelvis.
12. Explain the condition of Asphyxia Neonatrum.

SHORT ANSWERS 10 x 2 = 20 Marks

13. What do you mean by Cervical dystocia?
14. Define Primary infertility.
15. List down the indications of Phototherapy.
16. Enlist the complications of Tubal pregnancy.
17. What is Recurrent abortion?
18. What is Pica?
19. Define Weaning.
20. What are the features of Caput succedaneum?
21. Define Precipitate labour.
22. What are the causes of Vasa praevia?

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – SEP 2016

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. a) Define Acute leukemia.
   b) Enlist the clinical features of Acute leukemia in a child.
   c) Explain the nursing management of a 5 year old child with Acute leukemia, stating the nursing problems on priority
2. a) Define AIDS.
   b) List the signs and symptoms of AIDS
   c) Explain in detail, the nursing management of a 2 year old HIV positive child, stating the problems on priority.
3. a) Define PEM.
   b) List the Nursing problems of a 2 year old child with Kwashiorkar
   c) Explain the Dietary management of this child.

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

4. Explain the Nursing care of low birth weight baby
5. Illustrate the Care of a child with Intestinal obstruction
6. Explain Dietary management in iron deficiency anemia
7. Explain Immunization schedule
8. Mention the Clinical features of Vitamin C deficiency and write the management
9. Explain the management of convulsions in children
10. Illustrate the importance of Play in infancy
11. Explain APGAR score
12. Explain the management of foreign body in the eye

SHORT ANSWERS 10 x 2 = 20 Marks

13. Define Asphyxia neonatorum
14. State the importance of Burping after feeds
15. Write the meaning of hydrocephalus
16. Define Otitis media
17. Mention the causes of Mental Retardation
18. Define Enuresis
19. Write the complications of rubella infection
20. List the congenital defects of heart
21. Differentiate between Epispadias and Hypospadias
22. Mention the causes of urinary tract infection in children.

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Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing (PC) Degree Examination – SEP 2016

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. a) Define and state the types of fracture.
   b) Enumerate the causes, risk factors and pathophysiological changes.
   c) Discuss on diagnostic and treatment measures used for management of fracture of femur.
2. a) Define Hypertension and list the types.
   b) Discuss on pathophysiology and clinical manifestations of hypertension.
   c) Explain on the management and list the complications of hypertension.
3. a) Define Peptic Ulcer.
   b) Differentiate between peptic and duodenal ulcer.
   c) List the types of surgeries used for treating peptic ulcer with nursing care for first 24 hours.

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

4. Bronchiectasis and its management
5. Congestive Cardiac Failure
6. Diagnostic measures used in Cancer
7. Brain tumours
8. Cardiomyopathies
9. Benign Prostatic Hypertrophy
10. Cirrhosis of Liver
11. Osteoporosis and its management
12. Diabetes insipidus

SHORT ANSWERS 10 x 2 = 20 Marks

13. Purpura
14. Tonsillitis
15. Chicken pox
16. Shock
17. Portal hypertension
18. Vesico-vaginal fistula
19. Reconstructive surgery
20. Renal transplantation
21. Status asthmaticus
22. Mannitol

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Rajiv Gandhi University of Health Sciences, Karnataka

I year B.Sc. Nursing (PC) Degree Examination – SEP - 2016

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 the pathway of anaerobic glycolysis. Add a note on its energetics.
2. Describe the Beta oxidation of fatty acids. Add a note on its energetics.

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

3. Biomedical importance of lipids.
4. Factors affecting enzyme activity.
5. Functions of water in body.
6. Write a note on Glucose tolerance test (GTT).
7. Define enzyme. Explain competitive inhibition with suitable examples.

SHORT ANSWERS 4 x 2 = 8 Marks

8. What is denaturation of protein?
9. What are ketone bodies?
10. List down four examples of chemical wastes generated in a hospital.
11. What is Gout?

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Rajiv Gandhi University of Health Sciences, Karnataka

I year B.Sc. Nursing (PC) Degree Examination – SEP - 2016

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. State Newton's law of Gravitation. List the clinical applications of gravity.
2. Explain radioactivity. Write the uses of radioactive isotopes in medicine.

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

3. List the types of temperature scales and explain clinical thermometer in detail.
4. Mention the types of heat transmission with suitable examples
5. Distinguish between ECG and EMG
6. List the applications of light in nursing
7. Define energy and it's types with suitable examples.

SHORT ANSWERS 4 x 2 = 8 Marks

8. Intracranial pressure
9. Simple machines
10. Insulators
11. Convert 98.6 Fahrenheit in to centigrade scale

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