

KARANTAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
GNM SUPPLEMENTARY EXAMINATION FEBRUARY - 2019
1st year paper -I Bio science (Anatomy, Physiology and Microbiology)

Duration:3 Hours

Max.Marks:75

SECTION-I

- I. Give the meaning of the following:** **1x4=4**
a) Hypersensitivity b) Physiology c) Salivary gland d) Micturition
- II. Fill in the Blanks:** **1x4=4**
a) Life span of RBC is _____ days.
b) Suprarenal gland is otherwise known as _____
c) The bones are connected to bones by _____
d) The heart is situated in the _____ cavity.
- III. Write short notes on any FOUR of the following:** **4x4=16**
a) Sources of infection b) Structure of clavicle c) Muscles of face
d) Connective tissue e) Structure of Urinary bladder
- IV. Answer the Following:** **2+5=7**
a) Draw a neat diagram of stomach and label it
b) Explain the structure of stomach
- V. Answer the Following:** **2+5=7**
a) List down the bones of upper limb
b) Explain the structure of radius

SECTION-II

- VI. State whether the following statements are TRUE or FALSE** **1x4=4**
a) The inner most layer of uterus is endometrium.
b) The skeletal muscle cells are multinucleated.
c) The thoracic cage consists of 12 pairs of ribs.
d) Electron microscope is discovered by Ruska.
- VII. Choose the correct answer and write:**
a) Which of the following is not an enzyme
 i) Amylase ii) Pepsin iii) Stomatotropin iv) Trypsin
b) Which one of the following is not a part of small intestine
 i) Caecum ii) Duodenum iii) Jejunum iv) Ileum
c) In which part of the human body find the islet of Langerhans
 i) Brain ii) Pancreas iii) Kidney iv) Liver
- VIII. Write short notes on any FOUR of the following:** **4x4=16**
a) Functions of saliva b) Autoclaving c) Pulmonary circulation
d) Functions of uterus e) Classification of bacteria
- IX. Answer the Following:** **2+5=7**
a) List the organs of respiratory system
b) Explain the functions of Lungs
- X. Answer the Following:** **2+5=7**
a) Define immunity
b) Explain the types of immunity

KARANATAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
GNM ANNUL EXAMINATION AUGUST - 2018
1st year paper -I Bio science (Anatomy, Physiology and Microbiology)

Duration:3 Hours

Max.Marks:75

SECTION-I

- I. Fill in the Blanks:** **1x4=4**
a) Adult human body consists of _____ number of bones.
b) _____ is the structure unit of Kidney.
c) _____ is the pacemaker of the heart
d) Enlargement of spleen is called as _____
- II. Give the meaning of the following:** **1x4=4**
a) Asepsis b) Immunity c) Menopause d) Antigen
- III. Write short notes on any FOUR of the following:** **4x4=16**
a) Structure of cell b) Structure of brain c) Structure of eye ball
d) Layer of Gastrointestinal system e) Structure of Uterus
- IV. Answer the Following:** **2+5=7**
a) Classify bones with examples
b) Describe the structure of femur bone
- V. Answer the Following:** **3+4=7**
a) List the types of Infection
b) State the measures to be taken to prevent cross infection

SECTION-II

- VI. State whether the following statements are TRUE or FALSE** **1x4=4**
a) A person with AB blood group is an universal donor.
b) Cardiac muscles are voluntary muscles.
c) Outer layer of Meninges is dura mater.
d) Pulmonary artery carries de-oxygenated blood.
- VII. Choose the correct answer and write:** **1x4=4**
a) Largest gland in our body is
i) Thyroid ii) Liver iii) Brain iv) Pancreas
b) Power house of the cell is
i) Plasma membrane ii) Endoplasmic reticulum iii) Mitochondria iv) Nucleus
c) In which part of the human body find the islet of Langerhans
i) Pyramid ii) Urinary bladder iii) Pelvis iv) Bowman's Capsule
- VIII. Write short notes on any FOUR of the following:** **4x4=16**
a) Function of Pancreas b) Physiology of hearing c) Function of Kidney
d) Function of blood e) Factors influencing the growth of micro organisms
- IX. Answer the Following:** **3+4=7**
a) Describe the structure of heart
b) Explain the systemic circulation
- X. Answer the Following:** **3+4=7**
a) Classify Joints
b) Describe shoulder joint
or
a) List the organs of female reproductive system
b) Explain the structure of Mammary gland

KARANTAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
GNM SUPPLEMENTARY EXAMINATION FEBRUARY - 2018
1st year paper -I Bio science (Anatomy, Physiology and Microbiology)

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Max.Marks:75

SECTION-I

- I. Fill in the Blanks:** **1x4=4**
- a) The blood is a _____ tissue
 - b) The retina is a _____ layer of eye
 - c) The space between lungs is called _____
 - d) Taste buds contain _____ receptors
- II. Give the meaning of the following:** **1x4=4**
- a) Pasteurization b) Mitosis c) Immunity d) Fertilization
- III. Write short notes on any FOUR of the following:** **4x4=16**
- a) Structure of ear b) Structure of Neuron c) Epithelial tissue
 - d) Synovial joints e) Structure of Liver
- IV. Answer the Following:** **3+4=7**
- a) List the Endocrine glands
 - b) Describe the structure of Thyroid gland
- V. Answer the Following:** **1+2+4=7**
- a) Define sterilization
 - b) List the types of sterilization
 - c) Explain Autoclaving method of Sterilization
- SECTION-II**
- VI. State whether the following statements are TRUE or FALSE** **1x4=4**
- a) Clostridium tetani is a causative organism of tetanus.
 - b) Peritoneum is a covering layer of heart.
 - c) Rabies is a zoonotic disease.
 - d) Total bones of our body is 250
- VII. Choose the correct answer and write:** **1x3=3**
- a) Rickets is caused by deficiency of
i) Vitamin-A ii) Vitamin-D iii) Vitamin-C
 - b) The longest bone in human body is
i) Stapes ii) Femur iii) Humours
 - c) Act of swallowing is called
i) Deglutition ii) Mastication iii) Propulsion
- VIII. Write short notes on any FOUR of the following:** **4x4=16**
- a) Nosocomial infection b) Physiology of respiration c) Cranial nerves
 - d) Blood groups e) Menstrual cycle
- IX. Answer the Following:** **3+4=7**
- a) Define cardiac cycle
 - b) Explain stages of cardia cycle
- X. Answer the Following:** **3+4=7**
- a) Draw a neat diagram of the urinary system
 - b) Explain the function of kidney
- or**
- a) Draw a neat diagram of Skin
 - b) Explain the function of Skin

KARANATAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
GNM ANNUL EXAMINATION AUGUST - 2017
1st year paper -I Bio science (Anatomy, Physiology and Microbiology)

Duration:3 Hours

Max.Marks:75

SECTION-I

- I. Give the meaning of the following:** **1x4=4**
a) Deglutition b) Microorganism c) Extension d) Autoimmunity
- II. Fill in the Blanks:** **1x4=4**
a) Suprarenal gland is also called as _____
b) The organ of locomotion of bacteria is _____
c) Tuberculosis is caused by _____
d) The end part of small intestine is _____
- III. Write short notes on any FOUR of the following:** **4x4=16**
a) Synovial joints b) Structure of pancreas c) Structure of Spleen
d) Methods of Sterilization e) Muscles of face and Neck
- IV. Answer the Following** **2+5=7**
a) Name the organs of male Reproductive system
b) Describe the structure of Testis
- V. Answer the Following** **2+5=7**
a) List the Bones of lower extremity
b) Explain the structure of Femur
- SECTION-II**
- VI. State whether the following statements are TRUE or FALSE** **1x4=4**
a) The life span of RBC is 80 days.
b) Stapes is the smallest bone of our body.
c) Vagus Nerve is the ninth Cranial Nerve.
d) Mediastinum is the space between the lungs.
- VII. Choose the correct answer and write:** **1x3=3**
a) The end products of carbohydrate metabolism are
 i) Monosaccharides ii) Amino acids iii) Fatty acids iv) Glycerol
b) The hormone which is secreted by thymus gland is
 i) Calcitonin ii) Thymosin iii) Thyroxin iv) Insulin
c) Penicillin was discovered by
 i) Salk ii) Robert Koch iii) Alexander Fleming iv) Louis Pasteur
- VIII. Write short notes on any FOUR of the following:** **4x4=16**
a) Metabolism of Proteins b) Pulmonary Circulation c) Menstrual Cycle
d) Function of Neuron e) Function of skin
- IX. Answer the Following** **2+5=7**
a) Define Infection
b) Explain mode of Transmission of Infection
- X. Answer the Following** **1+6=7**
a) List the organs of Respiration System
b) Explain Physiology of Respiration

KARANTAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
GNM SUPPLEMENTARY EXAMINATION FEBRUARY - 2017
1st year paper -I Bio science (Anatomy, Physiology and Microbiology)

Duration:3 Hours

Max.Marks:75

SECTION-I

- I. Give the meaning of the following:** **1x4=4**
a) Adduction b) Neuron c) Hypersensitivity d) Disinfection
- II. Fill in the Blanks:** **1x4=4**
a) Left atrio-ventricular valve in the heart is also known as _____ valve
b) The largest part of the brain is _____
c) Leprosy is caused by _____
d) Best method of sterilization is _____
- III. Write short notes on any FOUR of the following:** **4x4=16**
a) Structure of the Uterus b) Structure of Tongue
c) Muscles of the upper arm d) Ball and Socket Joint
e) Factors influencing growth of micro-organisms
- IV. Answer the Following:** **2+5=7**
a) List the organs of Digestive system
b) Explain the structure of Stomach with a neat labelled diagram
- V. Answer the Following:** **2+5=7**
a) Name the organs of the Urinary System
b) Explain the structure of Kidney
- SECTION-II**
- VI. State whether the following statements are TRUE or FALSE** **1x3=3**
a) Veins carry oxygenated blood away from the heart.
b) Larynx is also known as Voice box.
c) There are eight Cervical Vertebrae.
- VII. Choose the correct answer and write:** **1x4=4**
a) Inner most layer of the blood vessel is
 i) Tunica intima ii) Tunica media iii) Tunica Vaginalis iv) Tunica Vaginalis
b) The Crania nerve responsible for Sense of smell is
 i) Oculomotor ii) Optic iii) Olfactory iv) Accessory
c) Bone forming cell are called as
 i) Osteocytes ii) Osteoclasts iii) Osteoblasts iv) None of the above
d) The main artery supplying to the brain is
 i) Common iliac ii) Brachiocephalic iii) Circulus arteriosus iv) Subclavian
- VIII. Write short notes on any FOUR of the following:** **4x4=16**
a) Cardiac cycle b) Function of Liver
c) Function of Pharynx d) Scope of Microbiology in nursing
e) Metabolism of Carbohydrates
- IX. Answer the Following:** **2+5=7**
a) What is Infection
b) Explain the portals of exit of Micro-organisms
- X. Answer the Following:** **2+5=7**
a) Name the organs of Special senses
b) Explain the physiology of Hearing

KARANATAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
GNM ANNUL EXAMINATION AUGUST - 2016
1st year paper -I Bio science (Anatomy, Physiology and Microbiology)

Duration:3 Hours

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SECTION-I

- I. Give the meaning of the following:** **1x4=4**
a) Meiosis b) Histology c) Diffusion d) Pasteurization
- II. Fill in the Blanks:** **1x4=4**
a) Middle layer of heart is called as _____
b) Cholera is caused by _____
c) The smallest bone in human body is _____
d) _____ is largest lymphatic organ
- III. Write short notes on any FOUR of the following:** **4x4=16**
a) Structure of cell b) Microscope c) Trachea
d) Structure of ear e) femur
- IV. Answer the Following:** **2+5=7**
a) List down the endocrine gland
b) Explain the structure of pituitary gland and its hormones
- V. Answer the Following:** **3+4=7**
a) List down the organs of Digestive system
b) Explain the structure of liver with a neat labelled diagram

SECTION-II

- VI. State whether the following statements are TRUE or FALSE** **1x4=4**
a) Autoclaving is a method of disinfection.
b) Peritoneum is the covering membrane of heart.
c) Rabies is a Zoonotic disease.
d) Tetanus is caused by clostridium tetani.
- VII. Choose the correct answer and write:** **1x3=3**
a) Normal duration of cardiac cycle is
 i) 0.8 second ii) 0.6 sec iii) 1 Minute
b) The acid-fast bacteria is
 i) Mycobacterium tuberculosis ii) E col iii) Salmonella typhi
c) The first part of large intestine is
 i) Caecum ii) Transverse colon iii) Sigmoid colon
- VIII. Write short notes on any FOUR of the following:** **4x4=16**
a) Blood Groups b) Cranial Nerves c) Functions of Bones
d) Cerebral spinal fluid e) Physiology of vision
- IX. Answer the Following:** **2+4=6**
a) Define Immunity
b) Explain the types of Immunity
- X. Answer the Following:** **3+5=8**
a) List the types of Tissue
b) Explain the function of Muscular Tissue
 or
a) Draw a neat diagram of Heart
b) Explain the conducting system of Heart

KARANTAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
GNM SUPPLEMENTARY EXAMINATION FEBRUARY - 2016
1st year paper -I Bio science (Anatomy, Physiology and Microbiology)

Duration:3 Hours

Max.Marks:75

SECTION-I

- I. Give the meaning of the following:** **1x4=4**
a) Flexion b) Enzyme c) Orifice d) Cardiac output
- II. Fill in the Blanks:** **1x4=4**
a) Space between the two lungs in the thoracic cavity is known as _____
b) Supra renal gland is also called as _____
c) Insulin is secreted by _____ cell of the pancreas
d) _____ is the covering membrane the bone
- III. Write short notes on any FOUR of the following:** **4x4=16**
a) Methods of Sterilization b) Muscles of the face and neck c) Types of immunity
d) Structure of the Femur e) Structure of the thyroid gland
- IV. Answer the Following:** **2+5=7**
a) Name the organs of urinary system
b) Explain the structure of the kidney with a neat labelled diagram
- V. Answer the Following:** **2+5=7**
a) List the organs of Respiratory system
b) Explain the structure of lungs with a neat labelled diagram

SECTION-II

- VI. State whether the following statements are TRUE or FALSE** **1x3=3**
a) Rods and cones are photoreceptors of the eye.
b) Nucleus is the power house of the cell.
c) Derma is the superficial layer of the skin.
- VII. Choose the correct answer and write:** **1x4=4**
a) The movable bone in the skull is _____
 i) Mandible ii) Maxilla iii) Vomer
b) Temporary teeth begin to erupt at the age of _____
 i) year ii) 1 ½ year iii) 6 year
c) The largest part of the brain is _____
 i) Mid brain ii) Cerebrum iii) Cerebellum
d) The first phase of cell division is _____
 i) Anaphase ii) Metaphase iii) Prophase
- VIII. Write short notes on any FOUR of the following:** **4x4=16**
a) Metabolism of proteins b) Function of the skin c) Physiology of the hearting
d) Composition of blood e) Menstrual cycle
- IX. Answer the Following:** **1+6=7**
a) Define infection
b) Explain the modes of transmission of infection
- X. Answer the Following:** **3+4=7**
a) Draw a neat labelled diagram of the heart
b) Explain the conducting system of the heart

KARANATAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
GNM ANNUL EXAMINATION AUGUST - 2015
1st year paper -I Bio science (Anatomy, Physiology and Microbiology)

Duration:3 Hours

Max.Marks:75

SECTION-I

- I. Give the meaning of the following:** **1x4=4**
a) Ingestion b) Larynx c) Anatomy d) Trachea
- II. Fill in the Blanks:** **1x4=4**
a) _____ is the hormone secreted by Thymus gland
b) The life span of RBC is _____ days
c) _____ is called as the power the house of the cell
d) Typhoid is caused by _____
- III. Write short notes on any FOUR of the following:** **4x4=16**
a) Structure of the Ovary b) Structure of brain c) Bones of upper limb
d) Innominate bone e) Gall bladder
- IV. Answer the Following:** **3+4=7**
a) List the organs of digestive system
b) Explain the structure of stomach with a neat labelled diagram
- V. Answer the Following:** **2+5=7**
a) The organs of Nervous system
b) Explain the structure of Brain with neat labelled diagram

SECTION-II

- VI. State whether the following statements are TRUE or FALSE** **1x3=3**
a) Bile is secreted by the stomach.
b) Heart is situated in the mediastinum.
c) Optic Nerve is the second cranial nerve in our body.
- VII. Choose the correct answer and write:**
a) Tear producing gland are
 i) Sebaceous ii) Lacrimal iii) Salivary Gland
b) The fertilization takes place in the
 i) Uterus ii) Cervix iii) Fallopian tube
c) The pace maker of the heart is
 i) A V Node ii) S A Node iii) Lymph Node
d) The organ of taste is
 i) Skin ii) Tongue iii) Nose
- VIII. Write short notes on any FOUR of the following:** **4x4=16**
a) Metabolism of Carbohydrates b) process of Urine formation c) Classification of Bacteria
d) Function of Liver e) physiology of Respiration
- IX. Answer the Following:** **2+5=7**
a) What is Asepsis
b) Explain the method of Medical and Surgical Asepsis
- X. Answer the Following:** **3+4=7**
a) Draw a neat labelled diagram of the Heart
b) Explain the Blood Circulation.

KARANTAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
GNM SUPPLEMENTARY EXAMINATION FEBRUARY - 2015
1st year paper -I Bio science (Anatomy, Physiology and Microbiology)

Duration:3 Hours

Max.Marks:75

SECTION-I

- I. Give the Meaning of the following:** **1x4=4**
a) Abduction b) Cytology c) Enzyme d) Hypersensitivity
- II. Fill the in blacks:** **1x4=4**
a) Blood vessel which carry blood away from the heart to different parts of The body are called _____
b) _____ nerve is the first cranial nerve of our body
c) _____ is called as the voice box of human body
d) The main artery in the human body is _____
- III. Write short notes on any FOUR of the following:** **4x4=16**
a) Structure of Trachea b) Structure of Neuron c) Sources of Infection
d) Ball and socket joint e) Structure of the Ear
- IV. Answer the Following:** **1+2+4=7**
a) Define respiration
b) List the organs of reproductive system
c) Explain the structure of the Lungs with labelled diagram
- V. Answer the Following:** **2+5=7**
a) Name the organs of the female reproductive system.
b) Describe the stricture of Uterus a neat labelled diagram
- SECTION-II**
- VI. State whether the following statements TURE or FALES** **1x3=3**
a) Tetanus is caused by clostridium tetani.
b) Neuron is the functional unit of Kidney.
c) The mediastinum is the space between the two pleural sacs in the Thorax.
- VII. Choose the correct answer and write:** **1x4=4**
a) The body power to resist infection is called
i) Infection ii) Hypersensitivity iii) Immunity
b) Axon is covered by a membrane called
i) Meninges ii) Axolemma iii) Serous membrane
c) The thoracic cage consists of
i) 12 pairs of ribs ii) 7 pairs of ribs iii) 11 pairs of ribs
d) Endocrine glands secrete
i) Enzymes ii) C.S.F. iii) Hormones
- VIII. Write short notes on any FOUR of the following:** **4x4=16**
a) Pulmonary Circulation b) Conductive system of Heart
c) Menstrual cycle d) Function of Cerebra Spinal fluid
e) Function of the skin.
- IX. Answer the Following:** **2+5=7**
a) Define Sterilization
b) Explain the different methods of sterilization
- X. Answer the Following:** **4+3=7**
a) Draw a neat labelled diagram of Heart.
b) Explain the portal circulation.

KARANTAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD

GNM ANNUAL EXAMINATION August - 2014

1st year paper – I Bio-Science (Anatomy, Physiology and Microbiology)

(Note: Draw diagrams wherever necessary)

Duration:3 Hours

Max.Marks:75

SECTION-I

I. Give the Meaning of the following: **1x4=4**
a) Pasteurization b) Pulmonary circulation c) Immunity d) Cytology

II. Fill in the Blanks **1x4=4**
a) _____ is the largest gland in Human body.
b) _____ is the membrane covering brain and spinal cord.
c) The bone of the lower jaw is called _____
d) Leprosy is caused by _____

III. Write short notes on any FOUR of the following: **4x4=16**
a) Structure of Heart b) Structure of Uterus c) Structure of Lungs
d) Structure of Tooth e) Factors influencing growth of micro-organisms

IV. Answer the Following: **2+5=7**
a) List the organs of urinary system
b) Describe the structure of Kidney with a neat labelled diagram
or
a) List the bones of Thoracic Cage
b) Describe the femur with a neat labelled diagram.

V. Answer the Following: **3+4=7**
a) Draw a neat labelled diagram of Human Eye.
or
b) Draw a neat labelled diagram of Digestive System.

SECTION-II

VI. State whether the following statements are TRUE or FALSE **1x4=4**
a) The largest part of Human brain is Cerebrum.
b) The optic nerve transmits the nerve impulses of smell
c) Malaria is transmitted by the bite of mosquitoes
d) Blood circulation between heart and body is called pulmonary circulation

VII. Fill in Blanks: **1x3=3**
a) The power house of the cell is _____
b) Blood vessels which carry blood towards heart are called _____
c) Tuberculosis is caused by _____

VIII. Write short notes on any FOUR of the following: **4x4=16**
a) Collection of Specimen b) Menstrual cycle c) Function of Blood
d) Metabolism of Carbohydrate e) Function of nephron

IX. Answer the Following: **2+4=6**
a) Name the Cranial Nerves
b) Explain the functions of Cranial Nerves
or

a) Name the sense organs
b) Explain the functions of sense organs
X. Answer the Following: **3+5=8**

a) Draw a neat labelled diagram of Heart
b) Explain the Pulmonary blood circulation
or
a) Draw a neat labelled diagram of Liver.
b) Explain the functions of Liver.

KARANTAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
GNM SUPPLEMENTARY EXAMINATION FEBRUARY - 2014
1st year paper – I Bio-Science (Anatomy, Physiology and Microbiology)
(Note: Draw diagrams wherever necessary)

Duration:3 Hours

Max.Marks:75

SECTION-I

- I. Give the Meaning of the following:** **1x4=4**
a) Tissues b) Metabolism c) Osmosis d) Fontanelles
- II. Fill in the Blanks:** **1x4=4**
a) _____ is second cervical vertebra
b) _____ is the covering membrane of the nerve
c) _____ is the inner most layer of the uterus
d) Buccinator is _____ in cheek
- III. Write short notes on any FOUR of the following:** **4x4=16**
a) Classification of joints b) Radius and ulnar bone
c) Pathogenic and non-pathogenic organisms
d) Prevention cross infection in the hospital wards
e) Draw a neat diagram of ear and label its parts
- IV. Answer the Following:** **2+5=7**
a) Explain in detail about phase of the cell division
b) Write about mitosis in detail
- V. Answer the Following:** **3+4=7**
a) List the organs of digestive system.
b) Draw a neat diagram of stomach and its parts and describe.

SECTION-II

- VI. State whether the following statements are TRUE or FALSE** **1x4=4**
a) Veins carry oxygenated blood away from the heart.
b) Iron part of haemoglobin is known as haem
c) Temporary arrest of breathing is called Dysphonia
- VII. Fill in blacks:** **1x3=3**
a) Eye lids protect eye from _____
b) Muscle cells are specialized from _____
c) _____ is the functional unit of the kidney
d) _____ is the respiratory organ
- VIII. Write short notes on any FOUR of the following:** **4x4=16**
a) Portals of entry and exit of microbes b) ABO blood group c) Steam sterilization
d) Systemic circulation e) Physiology Hearing
- IX. Answer the Following:** **2+4=6**
a) Draw a neat diagram of heart and label its parts
b) List the blood supply and nerve supply to heart
- X. Answer the Following:** **3+5=8**
a) What is endocrine gland
b) Write the structure and functions of supra renal glands
or
a) Write the structure and functions of Liver

KARANTAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD

GNM ANNUAL EXAMINATION SEPTEMBER - 2013

1st year paper – I Bio-Science (Anatomy, Physiology and Microbiology)

(Note: Draw diagrams wherever necessary)

Duration:3 Hours

Max.Marks:75

SECTION-I

- I. Give the Meaning of the following:** **1x4=4**
a) Hypersensitivity b) Ionizing Radiation c) Fimbriae d) Histology
- II. Fill in the Blanks** **1x4=4**
a) Exocrine gland secret _____
b) Space between two lungs is called as _____
c) Receptors for bright light and colour vision is _____
d) Tall of the spinal cord is called as _____
- III. Write short notes on any FOUR of the following:** **4x4=16**
a) Structure of cell b) Sources of infection
c) Homarus bone d) Preparation and Examination of Smears
e) Muscles of the upper Arm
- IV. Answer the Following:** **1+4+3=8**
a) What is Peristalsis
b) Draw the structure of stomach and label the parts
c) Write the enzymes present in Gastric juice.
- V. Answer the Following:** **1+2+3=6**
a) What are Endocrine Glands.
b) List the Endocrine Glands.
c) Explain about Adrenal Gland and its Hormones.
- SECTION-II**
- VI. State whether the following statements are TRUE or FALSE** **1x4=4**
a) The right atrio Ventricular Valve is also called as Mitral Valve.
b) Diaphragm Relaxes during Exploration
c) Gas Gangrene is caused by Clostridium welchi
d) Fluid present in the inner Ear is CSF
- VII. Choose the correct answer and write.** **1x3=3**
a) The innermost layer of Brain is.
i) Endocardium ii) Piamater iii) Duramater
b) The fertilized Ovum is called as
i) Zygote ii) Sperm iii) Ova
c) Brain and Spinal cord are the parts of
i) Central Nervous system ii) Peripheral Nervous system iii) Autonomic Nervous system.
- VIII. Write short note on any FOUR of the following:** **4x4=16**
a) Mechanism of Health. b) Function of Bronchi, Bronchioles and Alveoli.
c) Function of Kidney. d) Blood Groups. e) Types of Muscles and its function.
- IX. Answer the Following:** **2+2+3=7**
a) What is Nosocomial Infection
b) List few Nosocomial Infection
c) How will you prevent cross infection in Hospital
- X. Answer the Following:** **2+5=7**
a) Name the outer, middle and inner layer of the Eye
b) Briefly explain Refractive Errors
or
a) Name the outer, middle and inner structure of Ear
b) Explain about cochlea and vestibule

KARANTAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
GNM SUPPLEMENTARY EXAMINATION JUNE - 2013
1st year paper – I Bio-Science (Anatomy, Physiology and Microbiology)
(Note: Draw diagrams wherever necessary)

Duration:3 Hours

Max.Marks:75

SECTION-I

- I. Give the Meaning of the following:** **1x4=4**
a) Foramen magnum b) Cartilage c) Spore d) Infection
- II. Fill in the Blanks:** **1x4=4**
a) The _____ is the largest bone of the foot
b) The Bat shaped bone is _____ bone
c) Thread like structures arising from cytoplasm and extending out through cell wall is called _____
d) The middle layer of heart is _____
- III. Write short notes on any THREE of the following:** **4x3=12**
a) Structure of the heart b) Structure of the Liver
c) Bone of the Wrist and Hand
d) Ball and socket joint
- IV. Answer the Following:** **6x1=6**
a) Draw a neat diagram of clavicle bone and explain
- V. Answer the Following:** **6x1=6**
a) Write the structure of kidney ureter and urinary bladder.
- VI. Answer the Following:** **1+6=7**
a) Define Sterilization
b) Explain the autoclaving method of sterilization

SECTION-II

- VII. State whether the following statements are TRUE or FALSE** **1x4=4**
a) The double layer of peritoneum is called mesentery
b) Sources of infection with in the body are called Exogenous
c) The nerve cell does not generate impulses
d) Tetanus is caused by Clostridium Tetani
- VIII. Choose the correct answer and write.** **1x3=3**
a) Growth of microorganisms in the presence of oxygen.
i) Aerobic ii) Anaerobic iii) Father of Microbiology
b) The inner most layer of the Uterus is
i) Endometrium ii) Endocardium iii) Perimetrium
c) Electron Microscope is discovered by
i) Ruska ii) Joseph Lister iii) Lou's Pasteur.
- IX. Write short note on any FOUR of the following:** **4x4=16**
a) Mechanism of Health. b) Function of Bronchi, Bronchioles and Alveoli.
c) Function of Kidney. d) Blood Groups. e) Types of Muscles and its function.
- X. Answer the Following:** **2+2+3=7**
a) Classification of Bacteria
b) Explain the physiology of vision
c) Function of ovaries-Ovaries has three function
- XI. Answer the Following:** **2+4=6**
a) Explain the function of skin
b) List the organs of respiratory system

1st year paper – I Bio-Science (Anatomy, Physiology and Microbiology)
(Note: Draw diagrams wherever necessary)

Max.Marks:75

I.	Give the Meaning of the following:	1x4=4
	a) Anaerobe b) Melosis c) Tendon d) Vein	
II.	Fill in the Blanks:	1x4=4
	a) Blood is a _____ tissue.	
	b) Smallest bone in human body is _____	
	c) Normal clotting time is _____	
	d) Appendix is a _____ organ.	
III.	Write short notes on any <u>FOUR</u> of the following:	4x4=16
	a) Connective Tissue b) Vertebral column c) Structure of a Bacterial cell	
	d) Small intestine e) Gastric Juice	
IV.	Answer the Following:	5x1=5
	a) Draw a neat diagram of Brain and label the parts or	
	b) Draw a neat diagram of heart and label the parts.	
V.	Answer the Following:	5x1=5
	a) Write are the different methods to control spread of infection.	
VI.	Answer the Following:	1x4=4
	a) Write types of bones with example.	
	<u>SECTION-II</u>	
VII.	State whether the following statements are TRUE or FALSE	1x3=3
	a) Sound waves travel at a speed of 332m/sec	
	b) Child birth is also called as partition	
	c) Lysosomes are rich in protein	
VIII.	Differentiate between the following:	2x3=6
	a) WBC and RBC	
	b) Endotoxin and Exotoxin	
	c) Mycology and Virology	
IX.	Write short notes on any <u>FOUR</u> of the following:	3x4=12
	a) Pasteurization	
	b) Collection of Specimen	
	c) Formation Composition of urine	
	d) Physiology of respiration	
	e) Function of Liver	
X.	Answer the Following:	5+5=10
	a) Draw a neat diagram of the Eye and label the parts	
	b) Explain the physiology of vision	
XI.	Answer the Following:	2+4=6
	a) Name the external genital organs of female reproductive system.	
	b) Briefly explain the function of uterine tubes and uterus.	

KARANTAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
GNM SUPPLEMENTRY EXAMINATION FEBRUARY - 2012

1st year paper – I Bio-Science (Anatomy, Physiology and Microbiology)

Duration: 3 Hours

Max. Marks: 75

SECTION-I

- I. Fill in the blanks:** **1x4=4**
- a) Zygomatic bone is known as _____
 - b) Bicuspid valve is also known as _____
 - c) Capacity of urinary bladder is _____
 - d) The presence of viruses in the blood is called _____
- II. Select the correct answer and write:** **1x4=4**
- a) The only movable bone of the skull is
i) Temporal ii) Mandible iii) Ethmoid Bone
 - b) Which of the following blood components are more in number
i) WBC ii) RBC iii) Ethmoid bone
 - c) Typhoid is caused by
i) S-typhi ii) E-Coli iii) Parasitology
 - d) Study of fungi is called
i) Microbiology ii) Mycology iii) Parasitology
- III. Write short notes on any THREE of the following:** **4x3=12**
- a) Tongue b) Epithelial tissue
 - c) Sterilization d) Immunity
- IV. Answer the Following:** **3+3+4=10**
- a) List the digestive of Digestive system
 - b) Draw a neat diagram of stomach and label the parts
 - c) Describe the structure of the stomach
- V. Answer the Following:** **2+6=8**
- a) Name the bones of the Axial skeleton.
 - b) List the bones of Thoracic cage and explain sternum.
- SECTION-II**
- VI. Fill in the blanks:** **1x5=5**
- a) Daily secretion of saliva is _____
 - b) Myopia is caused by _____
 - c) Malaria is caused by _____
 - d) The mode of transmission of viral hepatitis A is _____
 - e) Hyperthyroidism with toxic effects is called _____
- VII. State whether the following statements are True or FALSE** **1x2=2**
- a) Disinfectants inhibits the growth of Microbes
 - b) Veins carry oxygenated blood away from the heart
- VIII. Write short on any FOUR of the following:** **3x4=12**
- a) Pulmonary Circulation b) Function of skin
 - c) Function and composition of cerebrospinal fluid
 - d) Menstruation e) Basic Principles of Medical asepsis and surgical asepsis
- IX. Answer the Following:** **4+6=10**
- a) Write the function of Kidney and Urethras
 - b) Explain the process of Urine formation
- X. Answer the Following:** **3+5=8**
- a) Name the organs of special senses.
 - b) Draw a neat diagram of ear and label the parts.

KARANTAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
GNM ANNUAL EXAMINATION AUGUST - 2011

1st year paper – I Bio-Science (Anatomy, Physiology and Microbiology)

Duration: 3 Hours

Max. Marks: 75

SECTION-I

- I. Fill in the blanks:** **1x5=5**
- a) The smallest functional unit of the body is _____
 - b) Diehl Nielsen staining is used for _____
 - c) Respiratory centre is situated in the _____
 - d) Weight of kidney is _____
 - e) Specific gravity of C.S.F. is _____
- II. Differentiate between the following:** **1x3=3**
- a) Mycosis and Necrosis
 - b) Germicide and Parricide
 - c) Biopsy and Autopsy
- III. Write short notes on any THREE of the following:** **4x3=12**
- a) Erythrocytes b) Transmission of infection
 - c) CSF d) Structure of Heart
- IV. Answer the Following:** **4+6=10**
- a) Name the Bones of the appendicular skeleton
 - b) Explain the structure of Innominate Bone
- V. Answer the Following:** **4+4=8**
- a) Draw a neat diagram of Digestive system and label the parts.
 - b) Draw neat diagram of Respiratory system and label the parts.

SECTION-II

- VI. State whether the following statements are TRUE or FALSE** **1x4=4**
- a) Blood is an Epithelial Tissue.
 - b) Trapezius muscle located in the upper part of the back.
 - c) Laryngeal prominence is called as Adam's apple.
 - d) Mid-Stream urine is best sample for Urine culture.
- VII. Select the best answer and write:** **1x3=3**
- a) Carpal or wrist bones consists of
 - i) Seven Bones ii) Eight Bones iii) Ten Bones
 - b) The name of 10th cranial nerve is
 - i) Olfactory ii) Hypoglossal iii) Vagus
 - c) The second cervical vertebrae are
 - i) Atlas ii) Axis iii) Stapes
- VIII. Write short notes on any THREE of the following:** **4x3=12**
- a) Function of the Kidney b) Menstrual Cycle
 - c) Physiology of hearing d) Function of Hypothalamus
- IX. Answer the Following:** **2+4+4=10**
- a) Name the Endocrine organs
 - b) Write the functions of Pituitary
 - c) Enumerate the conditions produced by Hyper and Hypo secretion of Pituitary Gland.
- X. Answer the Following:** **2+6=8**
- a) What is sterilization.
 - b) Explain the different methods of Sterilization with example.

KARANTAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
GNM SUPPLEMENTRY EXAMINATION FEBRUARY - 2011

1st year paper – I Bio-Science (Anatomy, Physiology and Microbiology)

Duration: 3 Hours

Max.Marks: 75

SECTION-I

- I. Fill in the blanks:** **1x5=5**
- a) Cell was discovered by _____
 - b) Laryngeal prominence is called _____
 - c) Smallest bone in human body is _____
 - d) The presence of virus in blood is called _____
 - e) The blood group that is universal recipient is _____

- II. Select the correct answer and write:** **1x3=3**
- a) The hardest substance in the body is
i) Bone ii) Mandible iii) Enamel
 - b) One of the muscles of mastication is
i) Pterygoideus lateralis ii) Orbicularis oris iii) Buccinator
 - c) Body temperature is regulated by
i) Mid brain ii) Hypothalamus iii) Thalamus

- III. Write short notes on any THREE of the following:** **3x3=9**
- a) Liver b) Structure of Skin with a neat diagram
 - c) Spinal cord d) Conduction system of the Heart

- IV. Answer the Following:** **2+2=4**
- a) Name the bones of the upper extremity
 - b) Describe the scapula with a neat diagram

- V. Answer the Following:** **2+3=6**
- a) Explain the factors influencing microbial growth.

SECTION-II

- VI. Write the function of the following:** **3x3=9**
- a) Saliva b) Cerebellum c) Gall Bladder.

- VII. State whether the following statements are TRUE or FALSE** **1x5=5**
- a) Thymus gland is the largest lymph organ.
 - b) William Harvey discovered blood circulation in Human body.
 - c) The first cranial nerve is olfactory nerve.
 - d) There are 12 pair of intercostal muscles that occupy the space the 12 pair of ribs.
 - e) The first cervical vertebra is named as atlas.

- VIII. Write short on any FOUR of the following:** **4x4=16**
- a) Bio safety and waste management b) Endocrine glands
 - c) Uterus d) Nephron

- IX. Answer the Following:** **3+5=8**
- a) List the organs of digestive system
 - b) Explain the structure and function of stomach
- or**
- a) List the organs of respiratory system.
 - b) Explain the mechanism of respiration.

- X. Differentiate between:** **2+2=4**
- a) Pasteurization and Immunization
 - b) Concurrent disinfection and Terminal disinfection

- XI. Answer the Following:** **6x1=6**
- a) Draw a neat diagram of eye and label the parts.