

Maruthi Son Haran

KARNATAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
AUGUST 2009 GNM EXAMINATION
NEW SYLLABUS

1ST Year Paper - I Anatomy, Physiology and Microbiology
(Note : Draw diagrams wherever necessary)

Time : 3 Hours

Max. Marks : 75

SECTION - I

- I. FILL IN THE BLANKS 1X5=5
- a) _____ is the power house of the cell
b) _____ are the bone forming cells
c) _____ valve is situated inbetween the left atrium and ventricle
d) _____ is a gram positive bacteria
e) _____ is the structural and functional unit of kidney
- II. SELECT THE CORRECT ANSWER AND WRITE 1X3=3
- a) Innermost layer of the Uterus
i) Endocardium ii) Endometrium iii) Endopelvic
b) Pituitary gland is situated in
i) Hypothalamus ii) Medulla Oblongata iii) Sella Turcica
c) Growth of micro organism in presence of oxygen
i) Anaerobic ii) Aerobic iii) Antibiotic
- III. WRITE SHORT NOTES ON ANY FOUR OF THE FOLLOWING 3X4=12
- a) Cerebellum b) Humerus c) Types of Tissues
d) Disinfection e) Immunity
- IV. a) Define Sterilization 1+3=4
b) Explain the Autoclaving method of sterilization.
- V. a) Mention the Bones of Axial Skeleton 3+5=8
b) List the Bones of Thoracic Cage and explain sternum.
- VI. a) Explain the Circulation of Blood in detail with a neat diagram 6

SECTION - II

- VII. STATE WHETHER THE FOLLOWING STATEMENTS ARE TRUE OR FALSE 1X5=5
- a) Seventh cranial nerve is Auditory Nerve
b) Adipose tissue consists of water cells
c) The splenic artery supplies blood to the pancreas and spleen
d) Process of development of RBC is called erythropoiesis
e) Air borne infection is transmitted through water
- VIII. WRITE SHORT NOTES ON ANY FOUR OF THE FOLLOWING 3X4=12
- a) Anti Diuretic Hormone b) Small Intestine c) Enzymes
d) Testes e) Cerebro spinal fluid f) Physiology of hearing
- IX. WRITE THE FUNCTIONS OF ANY TWO OF THE FOLLOWING 4X2=8
- a) Neuron b) Heart c) Thyroid & Parathyroid gland
- X. Explain the process of Digestion 6
- XI. a) List the types of Infection. 2+4=6
b) Explain about prevention of cross infection in hospitals.



Karnataka State Diploma in Nursing Examination Board, Bangalore

February 2008 GNM Examination

Old Syllabus

1st Year Anatomy, Physiology and Micro-Biology (Paper-II)

(NOTE: Draw diagrams wherever necessary)

Time : 3 Hrs.

Max. Marks= 75

I. Give the meaning of the following

a. Antiseptics
d. Micro-biology

b. Blood pressure
e. Oesophagus

c. Physiology

1 x 5 = 5

II. Fill up the blanks

- a. The only movable bone of the face is the _____
b. _____ is the first cervical vertebra
c. _____ is the best method of sterilization
d. _____ is the last part of the small intestine
e. _____ pigment is present in the skin

1 x 5 = 5

III. State whether the following are True or False

- a. Bone is a type of dense connective tissue containing mineral deposits
b. Epidermis is the true skin
c. William Harvey discovered blood circulation of the human body
d. Myocardium is a specialized cardiac muscle tissue found only in the heart
e. Hypoxia means increased amount of oxygen in tissues

1 x 5 = 5

IV. Write short notes on any FOUR of the following

a. Functions of thyroid gland
d. Metabolism

b. Blood groups
e. Pancreas

c. Nosocomial infection

5 x 4 = 20

- V. a. List the bones of the lower limb
b. Describe patella

3 + 7 = 10

- VI. a. Name the organs of urinary system
b. Draw diagram of the organs which form the urinary tract
c. Write briefly the formation of urine

2 + 3 + 5 = 10

- VII. State the functions of skeleton

5

- VIII. a. List the organs of female reproductive system
b. Write its functions

3 + 7 = 10

- IX. Draw structure of Heart

OR

Briefly describe cardiac cycle

5



Karnataka State Diploma in Nursing Examination Board, Bangalore
February 2008 GNM Examination
New Syllabus

1st Year Anatomy, Physiology and Micro-Biology (Paper-I)

(NOTE: Draw diagrams wherever necessary)

Time : 3 Hrs.

Max. Marks= 75

"Section-I"

I. Give the meaning of the following

- a. Proximal b. Articulation c. Foramen d. Condyle 1 x 4 = 4

II. Fill in the blanks

- a. _____ is the father of bacteriology
b. _____ broth influences the growth of organisms in the laboratory
c. _____ fever is a mosquito borne disease transmitted by virus
d. _____ are given to boost immunity 1 x 4 = 4

III. Write short notes on the following

- a. Gross structure of a long bone
b. Aorta
c. Joints 4 x 3 = 12

IV. State whether the following are True or False

- a. Voluntary muscles are found in the muscles attached to skeleton
b. Central nervous system consists of brain, spinal cord and nerves
c. Peritoneum covers most of the abdominal organs
d. First stage of mitosis is anaphase 1 x 4 = 4

V. a. Draw diagram of microscope

- b. Name its parts 2+2 = 4

VI. a. Define Osteology

- b. Classify bones
c. Give examples of classification of each bone 2+4+4 = 10

"Section-II"

VII. Fill up the blanks

- a. _____ is the unit of hearing
b. _____ and _____ are the sounds of normal heart
c. _____ is the functional unit of the kidney
d. _____ substances present in blood are responsible for various chemical changes
1 x 4 = 4

VIII. State whether the following are True or False

- a. Nerve cells do not generate impulses
b. Cerebro spinal fluid is turbid when tapped in T.B. Meningitis
c. Diphtheria is caused by loeffler bacillus
d. Intercostal muscles may not help in the process of respiration
e. Disease of conducting system may result in complete heart block 1 x 5 = 5

IX. Write short notes any FOUR of the following

- a. Coronary b. Air capacity of lungs
c. Metabolism d. Blood pressure
e. Spleen and its functions 4 x 4 = 16

X. a. Write the parts of Brain

- b. Explain the Functions of hypothalamus 2 + 5 = 7

XI. Describe briefly portal circulation

5



KARNATAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD

AUGUST 2006 GNM EXAMINATION
(Old Syllabus)

Ist year PAPER-2 (ANATOMY, PHYSIOLOGY AND MICROBIOLOGY)

Time : 3 Hours

Max.Marks : 75

(Note: Draw neat diagram wherever necessary)

- I. **Fill in the blanks.**
- Goitre in general, is enlargement of _____ gland.
 - High tendency to pass urine in night is known as _____.
 - Spinal cord is part of _____ system.
 - A growth of micro-organisms on nutrient medium artificial or on living cells, to grow micro-organisms on such media is known as _____.
 - _____ is a grey matter mass situated at the base of each cerebral hemisphere.
- 1x5= 5
- II. **State Whether the following statements are True or False.**
- Olfactory nerve supplies the endorgans of smell.
 - Veins carry oxygenated blood away from the heart.
 - Bone is a hard living vascular connective tissue of the body.
 - Halogen compounds are used as disinfectants.
 - Larynx is an organ of respiration and phonation.
- 1x5= 5
- III. **Select the best answer.**
- The mode of transmission of viral hepatitis A
(Faecal-oral route, Percutaneous, Sexual)
 - Which of the following blood componets are more in number.
(WBC, RBC, Platelets)
 - Who is known as father of medicine ?
(Robert Koch, Hippocrates, Louis Pasteur)
 - Malaria is spread by
(Fly, Mosquito, Pig)
 - Typhoid is caused by
(S typhi, E Coli, Mycobacterium Leprae)
- 1x5= 5
- IV. **Write short notes on any FOUR.**
- The Spleen.
 - Moist heat Sterilization.
 - Cerebrospinal Fluid.
 - Function of Muscles.
 - Reproductive organs of male.
- 5x4= 20
- V. **a. Name the orgns of special sense.**
b. Draw a neat diagram of mouth and tongue and describe the structure and functions of tongue.
- 2+6= 8
- VI. **Describe structure and the functions of middle ear with a neat diagram.**
- 7
- VII. **Explain the folloing terms in digestion process.**
- Secretion
 - Digestion
 - Absorption
 - Excretion
- 2+2+2+2= 8
- VIII. **Explain the various steps involved in the formation of urine with a diagram.**
- 7
- IX. **a. Define cross infection.**
Write in brief about
- Wound infection
 - Urinary tract infection
 - Bacteremia and septicemia
- 1+3+3+3= 10
- OR**
- Write in detail about the Hospital acquired infections.**
- 10



KARNATAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD

AUGUST 2006 GNM EXAMINATION

(New Syallabus)

Ist year PAPER-1-01 (ANATOMY, PHYSIOLOGY AND MICROBIOLOGY)

Time : 3 Hours

(Note: Draw diagram wherever necessary)

Max.Marks : 75

SECTION-I
ANATOMY AND MICROBIOLOGY

I. **Fill in the blanks.**

- a. _____ is the bat shaped bone.
b. _____ is the method of making milk safe for human consumption.
c. Tail of spinal cord is called _____.
d. The thymus gland lies in the upper part of the mediastinum behind _____.

1 x 4=4

II. **Select the best answer and write.**

- a. Carpus or wrist consists of.
i. Seven Bones ii. Eight iii. Ten Bones
b. The frontal and parietal bones are joined by.
i. Sagittal suture ii. Lambdoid iii. Coronal suture
c. The Trochlear is cranial nerve.
i. Fourth ii. Fifth iii. Third
d. Leprosy bacilli was demonstrated by
i. Joseph Lister ii. Hansen iii. Alexander Fleming

1 x 4=4

III. **Write short notes any TWO.**

- a. Nosocomial infection
b. Muscular tissue
c. Microscopic structure of bone

5 x 2=10

- IV. a. Name the organs of reproductive system of both sex.
b. Describe the structure of ovaries with a neat diagram.
c. Describe the structure of breast.

2 + 4 + 4= 10

- V. a. Describe the interior structure of heart with diagram.
b. Explain the conducting system of the heart with diagram.

5 + 5 = 10

SECTION-II
PHYSIOLOGY AND MICROBIOLOGY

VI. **Fill in the blanks.**

- a. A person with _____ blood group is a universal recipient.
b. The hormone glucagon is secreted by group of specialised cells called _____.
c. Life of erythrocyte is limited to about _____ months.
d. _____ is an organism causing gas gangrene.

1 x 4 = 4

VII. **State whether following are True or False.**

- a. Fibrinogen is synthesised in spleen.
b. Hepatitis 'B' is also known as serum hepatitis.
c. Optic disc is also known as blind spot and has no light sensitive cells.

1 x 3=3

VIII. **Write Short notes on any TWO.**

- a. Physiology of hearing.
b. Cell Division.
c. Immunity and Immunising agents.

5 x 2=10

- IX. a. Explain the functions of liver.
b. Describe the digestion of food in small intestine.

5 + 5=10

- X. a. Name the endocrine organs.
b. Describe the functions of pituitary gland.
c. Enumerate the conditions produced by hyper and hypo secretion of pituitary gland.

2+4+4= 10



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Karnataka State Diploma In Nursing Examination Board

February 2006 GNM Examination

1ST Year Paper II-02

1ST Year paper II-02. ANATOMY, PHYSIOLOGY AND MICROBIOLOGY

(Note: DRAW NEAT DIAGRAM WHEREVER NECESSARY)

TIME:3Hours

Max.Marks:75

I. Fill in the Blanks

- a) The Functional subunits of chromosomes are called as -----
b) Vertebral column consists of ----- Thoracic vertebrae
c) White Blood Cells are also called as -----
d) Heart is supplied with arterial blood by ----- Arteries
e) ----- is the 10th Cranial Nerve

1x5=5

II. State Whether the following are True or False

- a) Retina is the middle layer of Eye
b) Pleura is the covering of lung
c) Pituitary gland lies in the Hypophyseal fossa of the sphenoid bone
d) Rectum is the lowest part of small intestine
e) Breast bone is a shine bone

1x5=5

III. Select the best answer

- a) Tetanus is caused by -----
[Gonococci, Staphylococci, Clostridium Tetani]
b) The First cranial Nerve is -----
[Olfactory, Oculomotor, Optic]
c) The first stage in Healing is -----
[Proliferation, Inflammation, Maturation]
d) The maximum amount of air which can be expired after the deepest inspiration is called as -----
[Vital capacity, Tidal Volume, Peak Inspiratory volume]

1x5=5

IV. Write Short Answer on any FOUR of the following

- a) Metabolism of Proteins
b) Innominate Bone
c) Muscular Tissue
d) Nosocomial infection
e) Cerebrum
f) Structure and functions of gall bladder

(Adduction,
Extension
Abduction)

4x5=20

V. a) List the parts of Brain

- b) List the Cranial Nerves
c) Explain the origin and functions of cranial Nerves

2+3+5=10

VI. a) Define microbiology

- b) Explain the reaction of body to certain organisms of the body

2+4=6

VII. a) Name the bones of upper extremity

- b) Describe Humerus with a neat diagram

2+4=6

VIII. a) Name the parts of respiratory system

- b) Describe structure and functions of trachea
c) Explain mechanism of respiration

2+5+3=10

IX. a) Name the organs of urinary system with a diagram

- b) Explain the structure of kidney
c) Briefly describe the renal function

2+2+4=8



**KARNATAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD
AUGUST 2005 GNM EXAMINATION**

1st Year Paper-II (ANATOMY PHYSIOLOGY & MICROBIOLOGY)

(NOTE: Draw the Diagram wherever necessary)

Time : 3 Hours

Max.Marks : 75

I. A. State whether the following statements are True or False.

- Ist cranial nerve is named as oculomotor.
- Tuberculosis can be prevented by B.C.G Vaccination.
- Mid-Stream urine is best sample for urine culture.
- Glomerular hydrostatic pressure and filtraion are directly related to systemic blood pressure.
- There are six pairs of para nasal sinuses. 1 x 5=5

B. Fill up the blanks with suitable words from the bracket.

- Generally light rays from red colour stimulates _____.
(Cyanolabe, Chlorolabe, Erythrolabe)
- Body temperature is regulated by _____.
(Mid Brain, Hypothalamus, Thalamus)
- The second cervical vertebrae is _____.
(Atlas, Axis, Stapes)
- The most effective bactericide of the halogen group is _____.
(Dettol, Iodine, Spirit)
- One of the Muscles of Mastication is _____.
(Pterygoid, Orbicularisoris, Buccinator) 1 x 5=5

C. Name the Following.

- Organs of respiratory system.
- Layers of Heart.
- Content of gastric juice.
- Salivary glands.
- Cartilages. 1 x 5=5

II. Write short notes on any FOUR.

- Functions of Liver.
- Blood groups.
- Immunity.
- Oesophagus.
- Testis. 5 x 4=20

**III. a. Define Sterilization.
b. What are the different methods of Sterilisation ?
c. Explain in detail about Autoclaving. 2+5+3=10**

**IV. a. Draw a neat diagram of Brain.
b. Describe the Structure.
c. Write the functions of Cerebellum. 2+3+5=10**

OR

**a. Define Endocrine glands.
b. Name the Endocrine glands.
c. Explain in detail about Pituitary gland. 2+3+5=10**

**V. a. List the Bones of axial skeleton.
b. Explain the clavical bone with a diagram. 6+4=10**

OR

**a. Name the joints of upper Limbs.
b. Explain shoulder joint with a diagram. 6+4=10**

**VI. a. Name the Organs of special senses.
b. Describe the structure of the Skin.
c. Write the functions of the Skin. 2+5+3=10**

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KARNATAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD

JANUARY 2005 GNM Examination

1st Year Paper-II ANATOMY PHYSIOLOGY, MICROBIOLOGY

(NOTE: Draw the Diagram wherever necessary)

TIME : 3 Hours

MAX.MARKS : 75

I. FILL IN THE BLANKS.

- a) The longest bone in human body is _____.
b) The life span of RBC's is _____ days.
c) The Cardiac output in a healthy adult at rest is _____.
d) The Covering of brain and spinal cord is known as _____.
e) In the process of meiosis the resultant zygote has _____ number of chromosome.
1 x 5 = 5

II. STATE WHETHER THE FOLLOWING STATEMENTS ARE TRUE OR FALSE.

- a) Ossicles are found in the inner Ear.
b) There are 11 pairs of intercostal muscles.
c) Prostate gland is present in females.
d) Abdominal organs are covered by peritoneum.
e) Urinary bladder is made up of fibrous Tissue.
1 x 5 = 5

III. SELECT BEST ANSWER AND UNDERLINE.

- a) Penicillin was discovered by -
{ Hansen , Alexander Fleming, Haniman }
b) Space between two flat bones are called as -
{ Fontanellae, Fissures, Sutures }
c) Bone forming cells are known as -
{ Osteocytes, Osteoblasts, Osteoclasts }
d) The name of 10th cranial nerve is -
{ Accessory, Hypoglossal, Vagus }
e) The hormone essential for spermatogenesis is -
{ Testosterone, Leutenizing Hormone, Follicular Hormone }
1 x 5 = 5

IV. WRITE SHORT NOTE ON ANY FOUR

- a) Humerus.
b) Nerve Tissue
c) Immunity
d) Nephron
e) Structure and function of Pancreas.
4 x 5 = 20

- V. a) Draw the diagram of Heart.
b) Describe its Structure.
c) Explain the systemic Circulation.
4 + 3 + 3 = 10

- VI. a) Define Specimen.
b) Explain points to be remembered while collecting Specimen.
c) Describe how to collect Sputum for culture.
2 + 5 + 3 = 10

- VII. a) List the parts of female reproductive organs.
b) Describe the structure and function of Uterus.
4 + 6 = 10

- VIII. a) List the special sense organs.
b) Draw Diagram of Ear.
c) Describe the Physiology of Hearing.
2 + 5 + 3 = 10

KARNATAKA STATE DIPLOMA NURSING EXAMINATION BOARD
AUGUST 2004
I YEAR - PAPER - II (ANATOMY PSHYSIOLOGY & MICROBIOLOGY)
(Note : Draw the Diagram wherever necessary)

Time: 3 Hours

Max.Marks: 75.

1. A. Select the Suitable Answer from the Bracket and Fill up the Blanks. 1 X 5 = 5
- a. Discovery of Penicillin was done by _____
(Hansen, Sir. Alexander Fleming, Meisser.)
- b. Best Method of Sterilization is _____
(Chemical Method, Boiling, Autoclaving.)
- c. Electron Microscope is Discovered by _____
(Ruska, Joseph Lister, Louis Pasteur.)
- d. Discovery of Blood Groups were done by _____
(Karl Landsteiner, Paul Ehrlich, Ogston.)
- c. The First case of AIDS was discovered in America in the year _____
(1980, 1982, 1985.)
- B. State Whether the Following Statements are True Or False. 1 x 5 = 5
1. C.S.F. is Secreted by the Choroid Plexus in the Ventricles of the Brain.
2. Pulmonary Arteries carry Deoxygenated Blood.
3. Hyoid bone is a flat bone.
4. A person with 'AB' Blood group is an Universal donor.
5. The Fibula lies lateral to Femur.
- C. Name the Following. 1 X 5 = 5
1. Sutures of the Cranium.
2. Ossicles of the middle ear.
3. Accessory Organs of the eye.
4. The different Papillae of the tongue.
5. Types of cell division.
- Write Short Notes on any FOUR of the following
- a. Menstrual cycle b. Cavities of the body c. Mandible bone
d. Disinfection e. Pasteurization 5x4 =20
- III. A. Draw a neat diagram of the Eye ball.
B. Discribe its Structure. 5+5 =10
- IV. A. Name the Organs of the Digestive system.
B. Explain in detail the structure and functions of the stomach.
- OR
- A. Name the Organs of Respiratory system.
B. Explain the Mechanism of Respiration 4 + 6 = 10
- V. A. Name the Bones of the lower Extremity.
B. Describe the Femur. 4 + 6 = 10
- VI. A. Define Infection.
B. List the sources of Infection.
C. State the measures to be taken to prevent cross Infection in the Hospital 2+3+5 = 10

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Karnataka State Diploma in Nursing Examination Board
Annual GNM August 2003
I Year Paper: Anatomy, Physiology & Microbiology

TIME : 3 Hours

(NOTE : Draw the Diagram Wherever necessary)

Max.Marks : 75

I. A. EXPAND THE FOLLOWING

- | | | | | | |
|--------|---------|--------|---------|--------|-------|
| 1. CCK | 2. GHRF | 3. TRH | 4. IRV | 5. TV. | 6. VC |
| 7. BCG | 8. CSF | 9. LH | 10. FSH | | |

1 x 10 = 10

B. MATCH THE FOLLOWING

- | 'A' | 'B' |
|--------------------|-------------------------|
| a. Hypothalamus | 1. Stomach ~ |
| b. Rugae | 2. Autonomous Control 1 |
| c. Micro-organisms | 3. Microscope 3 |
| d. Urinary Bladder | 4. Thyroid 5 |
| e. Goitre | 5. Trigone † |

1 x 5 = 5

II. A. FILL UP THE BLANKS WITH CORRECT ANSWER

- _____ is the 10th Cranial Nerve.
- Brain and Spinal cord is covered by _____.
- _____ is the causative organism of cholera.
- Salmonella typhi causes _____.
- Amount of gastric juice secreted per day is _____.

1 x 5 = 5

B. STATE WHETHER THE FOLLOWING STATEMENTS ARE TRUE OR FALSE

- Pulmonary artery carries Oxygenated blood.
- Cardiac sphincter prevents the reflux of gastric juice into the oesophagus.
- Tetanus is caused by clostridium welchi.
- Release of ovum from the ovary is called as fertilization.
- The point of Bifurcation of trachea into left and right bronchi is called as Carina. 1 x 5 = 5

III. WRITE SHORT NOTES ON ANY FOUR OF THE FOLLOWING

- | | | | |
|-------------------------|------------|------------------|---------------|
| a. Nosocomial infection | b. Sternum | c. Cardiac Cycle | d. Cold Chain |
| e. Patella | f. Cell | | |

5 x 4 = 20

- IV. a. List the internal organs of female reproductive system.
b. Discuss the structure and function of uterus.

2 + 8 = 10

- V. a. Define Sterilization.
b. Mention different methods of Sterilization.
e. Explain autoclaving in detail.

2 + 3 + 5 = 10

- VI. a. List the Bones of lower Extremity.
b. Describe femur in detail.

2 + 8 = 10