

MANIPAL COLLEGE OF NURSING
MANIPAL UNIVERSITY
(MANIPAL/ MANGALORE/ BANGALORE)

FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION - MAY 2010

SUBJECT: INTRODUCTION TO COMPUTERS

Friday, May 14, 2010

Time: 30 min

Max. Marks: 25

✍ Answer ALL questions.

PART - A

1. Choose the single best answer to each of the following questions:

1A. _____ are small pictures on desktop.

- | | |
|-----------|-----------|
| a) pic | b) icons |
| c) images | d) pixels |

1B. Binary Digits are

- | | |
|----------|-----------|
| a) 0 & 1 | b) 1 & 10 |
| c) 0 & 2 | d) 1 & 2 |

1C. _____ is the DOS command to view the contents of a drive.

- | | |
|--------------|----------|
| a) directory | b) drive |
| c) dir | d) list |

1D. Which of these is a input device?

- | | |
|------------|----------------------|
| a) Scanner | b) Laser jet printer |
| c) Monitor | d) Inkjet printer |

1E. The package used for presentation is

- | | |
|--------------|------------------|
| a) MS Word | b) MS Excel |
| c) MS Access | d) MS Powerpoint |

1F. _____ is ideal for creating personalized form letters to various recipients.

- | | |
|------------|---------------|
| a) Letters | b) Mail merge |
| c) Forms | d) PPT |

1G. CD-ROM is a _____ memory

- | | |
|-------------|--------------|
| a) Primary | b) Secondary |
| c) Volatile | d) Main |

1H. Choose the correct HTML tag to underline a text.

- | | |
|----------|----------------|
| a) <und> | b) <underline> |
| c) <u> | d) |

- 1I. Hyperlink is used to link another _____
- a) page or web page b) hardware
c) input device d) output device
- 1J. Internet Explorer is a most popular _____
- a) ISP b) Web Address
c) Web Browser d) Network
- 1K. Postal mail is replaced by _____
- a) Speed post b) Telephone
c) e-mail d) Mail merge
- 1L. <th> tag defines _____ in a HTML table.
- a) Heading of a document b) Page header
c) Cell heading of a table d) Title
- 1M. _____ are useful tools for Nurse administrators.
- a) Keyboards b) Monitors
c) Computers d) CPU
- 1N. _____ allows you to present data in a visual format using various graphs.
- a) Outlook b) Document
c) Filter d) Chart
- 1O. _____ is the statistical function to find the highest mark scored by students.
- a) high b) highest
c) max d) maximum

(1×15 = 15 marks)

PART - B

2. Short Answer Questions:

- 2A. Define the term input device with examples.
- 2B. What is an Operating System? Write the DOS Commands to create directory and remove a directory.
- 2C. Explain any four features of MS Excel.
- 2D. Explain the use of computers in clinical nursing practice.
- 2E. Name the components of multimedia.

(2×5 = 10 marks)



MANIPAL UNIVERSITY

FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – MAY 2010

SUBJECT: ANATOMY AND PHYSIOLOGY (BSN 101)

Tuesday, May 18, 2010

Time: 10:00 – 13:00 Hrs.

Max. Marks: 75

✍ Answer Section 'A' and Section 'B' In Two Separate Answer Books.

SECTION "A": ANATOMY: 37 MARKS

1. Write briefly on:

- 1A. Stomach
- 1B. Coronary arteries
- 1C. Prostate

(5×3 = 15 marks)

2. Write short notes on each of the following:

- 2A. Neat labelled diagram of a cell
- 2B. Cartilaginous joints
- 2C. Origin, insertion and actions of deltoid muscle
- 2D. Microscopic structure of thick skin
- 2E. Intercostal muscles
- 2F. Anterior relations of Left kidney
- 2G. Microscopic structure of adrenal gland

(2×7 = 14 marks)

3. Choose the Single Best Response for the following:

3A. Power house of the cell is:

- a) Mitochondria
- b) Golgi complex
- c) Endoplasmic reticulum
- d) Ribosomes

3B. Femur is an example for:

- a) Flat bone
- b) Pneumatic bone
- c) Long bone
- d) Sesamoid bone

3C. Muscles of the back of the thigh are supplied by:

- a) Femoral nerve
- b) Obturator nerve
- c) Pudendal nerve
- d) Sciatic nerve

3D. The total number of pairs of cranial nerves arising for the brain are:

- a) 10
- b) 11
- c) 12
- d) 13

- 3E. Middle meatus of nasal cavity receives the opening of:
- Nasolacrimal duct
 - Sphenoidal air sinus
 - Maxillary air sinus
 - Posterior ethmoidal air sinus
- 3F. Coronary arteries are the branches of:
- Pulmonary trunk
 - Arch of aorta
 - Descending thoracic aorta
 - Ascending aorta
- 3G. Diaphragm is innervated by:
- Phrenic nerve
 - Subcostal nerve
 - Iliohypogastric nerve
 - Ilio inguinal nerve
- 3H. Vermiform appendix opens into:
- Ascending colon
 - Ileum
 - Caecum
 - Duodenum
- 3I. Glomerulus is present in relation to:
- Proximal convoluted tubule
 - Loop of Henle
 - Distal convoluted tubule
 - Bowman's capsule
- 3J. α -cells of endocrine pancreas secrete:
- Insulin
 - Glucagon
 - Somatostatin
 - Glucocorticoid
- 3K. Fertilization normally takes place in the following part of fallopian tube:
- Infundibulum
 - Ampulla
 - Isthmus
 - Intramural part
- 3L. Largest part of the hindbrain is:
- Cerebellum
 - Medulla oblongata
 - Pons
 - Midbrain
- 3M. Hassal's corpuscles are found in:
- Thymus
 - Tonsil
 - Spleen
 - Lymph node
- 3N. Gall bladder lies on the inferior surface of:
- Spleen
 - Stomach
 - Right kidney
 - Liver
- 3O. Master gland of endocrine system is:
- Thyroid
 - Parathyroid
 - Pituitary
 - Suprarenal
- 3P. Vasdeferens is the continuation of:
- Seminal vesicle
 - Epididymis
 - Ureter
 - Prostatic utricle

($\frac{1}{2} \times 16 =$

SECTION "B": PHYSIOLOGY: 38 MARKS

4. Choose the Single Best Response for the following:

4A. Lysosomes of a cell are concerned with all of the following except

- a) Autolysis of cell
- b) Intracellular digestion
- c) Inflammatory reaction
- d) Protein synthesis

4B. Resting cardiac output of normal human heart will be

- a) 70 ml
- b) 7 liters
- c) 50ml
- d) 5 liters

4C. The term hypercapnia denotes

- a) Increased P_{O_2} in blood
- b) Decreased P_{CO_2} in blood
- c) Increased P_{CO_2} in blood
- d) Decreased P_{O_2} in blood

4D. Hydrochloric acid in gastrointestinal tract is secreted by

- a) Parietal cells of stomach
- b) Chief cells of stomach
- c) Beta cells of pancreas
- d) G cells of stomach

4E. The type of sweat glands that are predominantly found in pubic region, axilla, and around the nipple

- a) Apocrine glands
- b) Eccrine glands
- c) Sebaceous glands
- d) Endocrine glands

4F. Deficiency of thyroxine in children and infants will result in

- a) Cretinism
- b) Myxedema
- c) Graves's disease
- d) Tetany

4G. Clinically practised permanent method of contraception in human male

- a) Castration
- b) Tubectomy
- c) Vasectomy
- d) Contraceptive pills

4H. Inability of a person to see the distant object clearly is called

- a) Hypermetropia
- b) Myopia
- c) Astigmatism
- d) Presbyopia

4I. Type of muscle contraction seen in biceps when a person moves his hand to feed himself from his plate

- a) Isometric
- b) Isotonic
- c) Eccentric
- d) None of the above

4J. Parkinsonism is due the deficiency of the following neurotransmitter in basal ganglia

- a) Acetyl choline
- b) Gama amino butyric acid
- c) Dopamine
- d) Noradrenaline

($\frac{1}{2} \times 10 = 5$ marks)

- 3E. Middle meatus of nasal cavity receives the opening of:
- a) Nasolacrimal duct b) Sphenoidal air sinus
c) Maxillary air sinus d) Posterior ethmoidal air sinus
- 3F. Coronary arteries are the branches of:
- a) Pulmonary trunk b) Arch of aorta
c) Descending thoracic aorta d) Ascending aorta
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- a) Phrenic nerve b) Subcostal nerve
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c) Pons d) Midbrain
- 3M. Hassal's corpuscles are found in:
- a) Thymus b) Tonsil
c) Spleen d) Lymph node
- 3N. Gall bladder lies on the inferior surface of:
- a) Spleen b) Stomach
c) Right kidney d) Liver
- 3O. Master gland of endocrine system is:
- a) Thyroid b) Parathyroid
c) Pituitary d) Suprarenal
- 3P. Vasdeferens is the continuation of:
- a) Seminal vesicle b) Epididymis
c) Ureter d) Prostatic utricle

SECTION "B": PHYSIOLOGY: 38 MARKS

4. Choose the Single Best Response for the following:

- 4A. Lysosomes of a cell are concerned with all of the following except
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- 4B. Resting cardiac output of normal human heart will be
a) 70 ml b) 7 liters
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- 4C. The term hypercapnia denotes
a) Increased P_{O_2} in blood b) Decreased P_{CO_2} in blood
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a) Parietal cells of stomach b) Chief cells of stomach
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- 4F. Deficiency of thyroxine in children and infants will result in
a) Cretinism b) Myxedema
c) Graves's disease d) Tetany
- 4G. Clinically practised permanent method of contraception in human male
a) Castration b) Tubectomy
c) Vasectomy d) Contraceptive pills
- 4H. Inability of a person to see the distant object clearly is called
a) Hypermetropia b) Myopia
c) Astigmatism d) Presbyopia
- 4I. Type of muscle contraction seen in biceps when a person moves his hand to feed himself from his plate
a) Isometric b) Isotonic
c) Eccentric d) None of the above
- 4J. Parkinsonism is due the deficiency of the following neurotransmitter in basal ganglia
a) Acetyl choline b) Gama amino butyric acid
c) Dopamine d) Noradrenaline

($\frac{1}{2} \times 10 = 5$ marks)

5. Explain all the mechanisms of hemostasis activated following an accidental cut in your finger. Add a note on hemophilia. (6+2 = 8 marks)
6. Draw a labeled diagram to show the location of following cortical areas and give **one** important function for each of these specific areas.
- 6A. Primary motor cortex
 - 6B. Somatosensory cortex
 - 6C. Visual cortex
 - 6D. Broca's area
 - 6E. Wernicke's area
- (1×5 = 5 marks)
7. **Write short notes:**
- 7A. Draw a labeled diagram of O₂- Hb dissociation curve and list any four factors that can shift the curve towards right. (2+2 = 4 marks)
- 7B. Explain briefly the phases involved in the swallowing of solid bolus and also add a note on achalasia cardia. (3+1 = 4 marks)
- 7C. Explain the actions of hormones released from the posterior pituitary of humans. (2+2 = 4 marks)
8. **Write short notes:**
- 8A. Draw a labeled diagram to show the innervations of urinary bladder in humans. (2 marks)
- 8B. Explain the physiological basis of any two thermoregulatory mechanisms that gets activated when a person is exposed to cold. (1+1 = 2 marks)
- 8C. List the hormones involved in:
- i) Secretion of milk
 - ii) Let down of milk
- (2 marks)
- 8D. List any two functions of middle ear and add a note on impedance matching. (1+1 = 2 marks)



MANIPAL UNIVERSITY

FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION - MAY 2010

SUBJECT: ENGLISH (BSN 107)

Wednesday, May 19, 2010

Time: 10:00 – 13:00 Hrs.

Max. Marks: 75

1A. Identify the part in the following sentences which has an error in it:

- i) The guide / gave us / a lot of informations / about the new place.
A B C D
- ii) He was an young man / with a great spirit / when he joined / this organisation.
A B C D
- iii) She was a brightest student / of the class / in the first year. / NO ERROR
A B C D
- iv) I need / an advice / on changing my job. / NO ERROR
A B C D
- v) Nurses are in great demand / all over the world, / isn't it? / NO ERROR
A B C D

1B. Choose the correct form of verb from the brackets:

- i) He _____ (is / was / has been) working in this office since 2002.
- ii) The class _____ (was started / started / had started) five minutes before I reached there.
- iii) The doctor and the nurses in this hospital _____ (speak / speaks) to a patient in a friendly manner.
- iv) Either the patient or his relatives _____ (need / needs) to be informed.
- v) We _____ (have / are having) a number of trained staff to handle such cases.

1C. Rewrite the following as directed:

- i) Rani asked her friend, "Where can I get a recharge card?"
(Rewrite using reported speech.)
- ii) The girl said to Ravi, "Pay the bill in Counter number three, please."
(Rewrite using reported speech.)
- iii) "I need to speak to the doctor," said the patient to the nurse, "it is very urgent."
(Rewrite using the reported speech.)
- iv) They started a new programme in the college. (Change into passive voice.)
- v) The college has given a laptop to all the students. (Change into passive voice.)

 $((1 \times 5) + (1 \times 5) + (1 \times 5)) = 15$ marks)

2A. Choose the right synonym for the following words:

- i) **Calamity**
a) environment b) tragedy c) climate d) happiness
- ii) **tidy**
a) messy b) small c) neat d) large

2B. Choose the right **antonym** for the following words:

i) **fake**

- a) false b) mock c) genuine d) famous

ii) **humble**

- a) hasty b) arrogant c) brave d) sad

2C. Choose the correct word from the brackets:

- i) He did not _____ a single point in the match. (loose / lose)
ii) He wanted to get all information about that particular _____ (disease/ decease)
iii) Our teachers always give us good _____ (advice / advise)

2D. Choose the correct phrasal verb from the brackets and fill the gap:

- i) The minister was asked to _____ the prizes of the competition. (give up / give in/ give away)
ii) The Union has decided to _____ their proposed strike. (call on / call off / call for)
iii) They _____ the new proposal after a detailed analysis. (turned up / turned down/ turned into)

(2+2+3+3 = 10 marks)

3A. Transcribe the following words phonemically:

CAKE
CHOICE
FATHER
JUDGE
PLEASURE

3B. Mark the primary accent on the following words:

Application
Possibility
Electrician
Confidential
Education

$((\frac{1}{2} \times 5) + (\frac{1}{2} \times 5) = 5$ marks)

4A. **Read the following passage and answer the questions that follow:**

A special day for the celebration of mothers can be traced to the times of ancient Greece when tribute was paid to Rhea, the mother of many of the Greek gods.

Early Christians also paid tribute to Mary, the mother of God, during Lent. This tribute evolved into "Mothering Sunday" in England. "Mothering Sunday" is a celebration of all mothers, and is observed on the fourth Sunday of Lent.

In 1872, in America, Julia Ward Howe, the author of "The Battle Hymn of the Republic", suggested the idea of Mother's Day. However, Anna Jarvis is credited with creating Mother's Day in 1905. Anna Jarvis campaigned for Mother's Day as a tribute to her mother, who had tried to establish Mother's Friendship Day to help heal the scars of the Civil War in America.

In 1910, West Virginia became the first state to adopt a formal holiday to recognize mothers. A year later, nearly every state officially marked the day of celebration. In 1914, President Woodrow Wilson proclaimed Mother's Day as a national holiday, to be held on the second Sunday of May.

Today, Mother's Day is celebrated in many countries throughout the world, although the celebrations do not fall on the same day in every country.

Mother's Day is celebrated in various ways, depending on the country, the family, and the mother. Many families honor mothers by dining out, giving flowers, sending cards, giving gifts, and visits. Additionally, Mother's Day is reported to be one of the busiest days of the year for telephone calls.

Mother's Day should be every day. Mothers nurture us, teach us, protect us, and make us feel special. Mothers are the people in our lives who are most responsible for the way we grow and mature.

Questions:

- i) Who was the mother of the many gods in ancient Greece?
 - a) Anna
 - b) Julia Ward Howe
 - c) Virginia
 - d) Rhea
- ii) When is Mother's Day celebrated in the United States?
 - a) 5th Sunday in March
 - b) third Sunday in June
 - c) first of July
 - d) second Sunday in May
- iii) Who is responsible for making Mother's Day a national U.S. holiday?
 - a) President Lincoln
 - b) Anna Jarvis
 - c) Julia Ward Howe
 - d) President Wilson
- iv) Which of the following is NOT true?
 - a) Mother's Day is celebrated on the same day all over the world.
 - b) Mothers play a special part in our lives.
 - c) England celebrates Mothering Sunday
- v) What is the purpose of this writing?
 - a) to entertain
 - b) to persuade
 - c) to inform
 - d) none of these
- vi) Anna Jarvis lived in _____.
 - a) England
 - b) Philadelphia
 - c) Greece
 - d) Florida
- vii) Mothers are honored by their families on Mother's Day by _____.
 - a) dining out
 - b) cards
 - c) flowers
 - d) all of these
- viii) "Mother's day" should be everyday because _____.
- ix) Mother's day is celebrated on the same day throughout the world. (TRUE/FALSE)
- x) Suggest a suitable title for the passage.

4B. Write a paragraph on the significance of celebrating "Mother's Day" in your own words.

((1×10)+(1×5) = 15 marks)

5. A famous hospital in New Delhi has given an advertisement in The Times of India dated 14 September 2010 regarding recruitment of nursing staff. You, as a fresh graduate, wish to apply for the post.

Write a letter of application to the Managing Executive, Dept. of HRD, ABC Hospital, New Delhi.

You must also prepare a CV to be sent along with the application.

(6+4 = 10 marks)

6. **Write a précis (summary) of the following passage and suggest a suitable title to it:**

The food we eat seems to have profound effects on our health. Although science has made enormous steps in making food more fit to eat, it has at the same time, made many foods unfit to eat. Some research has shown that perhaps 80% of all human illnesses are related to diet and 40% of cancer is related to the diet as well, especially cancer of the colon. People of different cultures are more prone to contract certain illnesses because of the characteristic foods they consume.

That food is related to illness is not a new discovery. In 1945, government researchers realized that nitrates and nitrites (commonly used to preserve colour in meats) as well as other food additives caused cancer. Yet, these carcinogenic additives remain in our food, and it becomes more difficult all the time to know which ingredients on the packaging labels of processed food is helpful or harmful.

The additives that we eat are not all so direct. Farmers often give penicillin to cattle and poultry and because of this, penicillin has been found in the milk of treated cows. Sometimes, similar drugs are administered to animals not for medical purposes, but for financial reasons. The farmers are simply trying to fatten the animals in order to obtain a higher price on the market. Although the Food and Drug Administration exercises a control over such misuse of drugs, the practices continue.

A healthy diet is directly related to good health. Often we are unaware of detrimental substances we ingest. Sometimes well-meaning farmers or others who do not realize the consequences add these substances to food without our knowledge.

(10 marks)

7. Write an essay on any **ONE** of the following in about 300-400 words:

7A. Medical Science is a Boon to the modern society.

7B. A Memorable Incident in my Life.

7C. The Importance of Physical Exercise.

(10 marks)



MANIPAL UNIVERSITY

FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION - MAY 2010

SUBJECT: NUTRITION AND BIOCHEMISTRY (BSN 102)

Thursday, May 20, 2010

Time: 10:00 – 13:00 Hrs.

Max. Marks: 75

✶ Answer Section – 'A' and Section – 'B' in two separate answer books.

SECTION – A : NUTRITION : 45 MARKS

1. Choose the appropriate answers for the following:

1A. 1 tea spoon is equal to 5gms then 16 tea spoons is

- i) 19gms ii) 20gms
iii) 30gms iv) 80gms

1B. Nutritive value of food stuff is increased by following process

- i) Pressure cooking ii) Germinating
iii) Cooking in acidic medium iv) No changes

1C. Germination of pulses enhances mainly

- i) Protein ii) Iron
iii) Vitamin C iv) Vitamin A

1D. Unit used for energy is

- i) Micrograms ii) International units
iii) Joules iv) Milimicrons

1E. Richest source of thiamine is

- i) Whole grain cereals ii) Dry peas and beans
iii) Liver iv) All food

1F. The daily intake of fluid should be

- i) 1-2 cups ii) 3-5 cups
iii) 6-8 cups iv) 9-11 cups

1G. Mono-saccharides are

- i) Not water soluble ii) Affected by digestive enzymes
iii) Found in natural sources iv) No changes

1H. You can purchase economically if you shop.

- i) At the crowded hours
ii) In bulk
iii) With proper knowledge of prices and availability of the items to be purchased.
iv) As and when you remember

(1×8 = 8 marks)

✍ **Answer the following:**

2. Discuss Iron under the following heads:

- 2A. Functions.
- 2B. Metabolism
- 2C. Sources

(2+2+2 = 6 marks)

3A. What is basic four grouping of foods?

3B. What are the functions of Vitamin B?

3C. Explain the symptoms of Beri Beri.

(2+2+2 = 6 marks).

4A. What is meant by 'Nitrogen Balance'?

4B. List 4 ways of increasing the protein in diet

4C. What is the general caloric value per gram of pure protein?

(2+4+1 = 7 marks)

5. **Write short notes on:**

5A. Function of CARE.

5B. What are vision of CFTRI?

5C. Expand B.M.R

5D. What are protective foods?

5E. Mention three conditions which helps in food spoilage.

5F. What is Glycogen?

5G. Rancidity of Oil.

5H. What is meant by an essential fatty acid and non essential fatty acids?

5I. Cooking of hard and boiled egg.

(2×9 = 18 marks)

SECTION – B : BIOCHEMISTRY : 30 MARKS

6. **Choose the appropriate answers for the following:**

6A. Liver cells cannot utilize ketone bodies, because they lack the enzyme

- i) Thiophorase
- ii) Thiokinase
- iii) Thioesterase
- iv) Thiolase

6B. Tryptophan is the precursor of all the following EXCEPT

- i) Melatonin
- ii) NAD+
- iii) Dopamine
- iv) Serotonin

- 6C. Non-diffusible calcium in plasma is mainly bound to
- i) Globulins
 - ii) Albumin
 - iii) Calmodulin
 - iv) Calbindin
- 6D. In glycolysis reversible reaction is catalysed by
- i) Glucokinase
 - ii) Phosphoglycerate kinase
 - iii) Pyruvate kinase
 - iv) None of these
- 6E. All the following features hold good for HMP shunt pathway EXCEPT
- i) It generates 38 ATPs
 - ii) Produces NADPH and pentose
 - iii) Direct oxidation of glucose to oxygen
 - iv) Occurs in the urine
- 6F. Iron deficiency can be caused by all the following EXCEPT
- i) Repeated blood transfusion
 - ii) Hookworm infestation
 - iii) Chronic infections
 - iv) Decreased gastric acid output

(1×6 = 6 marks)

7. Answer the following questions:

7A. Write the components of the following:

- i) Lecithin
- ii) Cephalin
- iii) Lipoproteins

7B. Explain the principle of Vanden bergh's test. What is its use?

7C. Write short note on lactose intolerance.

7D. Describe active transport across membranes with an examples.

(3×4 = 12 marks)

8. Answer the following:

8A. Write the pathways by which glycogen is formed and degraded

8B. Describe beta oxidation of fatty acids. Add a note on its energetics

(6+(5+1) = 12 marks)



- 1K. Time it takes for a drug to reach its highest effective concentration is
- Peak
 - Trough
 - Duration
 - Plateau
- 1L. Following are the guidelines for catheterization **EXCEPT**
- Follow clean technique
 - Use rubber catheters
 - Lubricate the catheter to avoid friction
 - Provide privacy
- 1M. Among the following means, what would be your first choice to reduce transmission of infectious agents most efficiently?
- Apron
 - Hand hygiene
 - Latex gloves
 - Mask
- 1N. Universal precautions are the precautions to prevent _____ born diseases
- Air
 - Blood and body fluids
 - Food
 - Water
- 1O. To reduce the risk of sharp injury, sharps should be
- Recapped
 - Passed in a kidney tray
 - Disposed to yellow bag immediately
 - Disposed to yellow/blue bag immediately

(1×15 = 15 marks)

✍ **Write short notes for the following questions:**

- Levels of disease prevention.
- Nurses responsibility in admitting a client to the hospital.
- Factors affecting Temperature in clients.
- Factors affecting bowel elimination in clients.
- Absorption of drugs.
- Classification of wounds.
- Care of dying patient.

(5×7 = 35 marks)

✍ **Essays:**

- Define enema.
- Enumerate the indications of administering enema.
- Explain the nurses responsibility in administering nutrient enema.

(2+4+7 = 13 marks)

- Define parenteral administration of drug.
- Discuss the four major routes of parenteral administration.

(2+10 = 12 marks)



Reg. No.

MANIPAL UNIVERSITY

FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – MAY 2010

SUBJECT: PSYCHOLOGY (BSN 105)

Saturday, May 22, 2010

Time: 10:00 – 13:00 Hrs.

Max. Marks: 75

1. Write essay on any FIVE of the following:

- 1A. Discuss the branches of psychology.
- 1B. Elaborate on the experimental method.
- 1C. Psychoanalytic theory.
- 1D. Define emotion and elaborate on any two theories of emotion.
- 1E. Discuss the central nervous system.
- 1F. Define perception and highlight on perceptual illusions.
- 1G. Define motives and discuss its types.

(8×5 = 40 marks)

2. Write short notes on any SEVEN of the following:

- 2A. Maslow's theory of motivation.
- 2B. Laws of localization.
- 2C. Trial and error learning.
- 2D. Two-factor theory of intelligence.
- 2E. Ego defenses.
- 2F. Characteristics of a mentally healthy individual.
- 2G. Problem solving.
- 2H. Intelligence quotient.
- 2I. Types of memory.
- 2J. Determinants of attention.

(5×7 = 35 marks)



MANIPAL UNIVERSITY

FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION - MAY 2010

SUBJECT: MICROBIOLOGY (BSN 106)

Monday, May 24, 2010

Time: 10:00 – 13:00 Hrs.

Max. Marks: 75

✍ **Answer ALL the Questions.**

✍ **Draw neat labeled diagrams / flow charts wherever necessary.**

1. Answer the following Essay questions:

1A. Define and Classify Sterilization. Add a note on Autoclave.

(1+4+5 = 10 marks)

1B. Define and Classify Hypersensitivity. Add a note on Type I Hypersensitivity.

(1+4+5 = 10 marks)

1C. Write a note on Pathogenesis and Laboratory diagnosis of HIV infection.

(5+5 = 10 marks)

2. Write Short Notes on:

2A. Differential staining.

2B. Bacterial growth curve.

2C. Widal test.

2D. Classify Streptococci.

2E. Filarial Parasite.

2F. Prophylaxis for Poliomyelitis.

(5×6 = 30 marks)

3. Choose the Single Best Response for the following questions:

3A. Grampositive cocci arranged in chains are

- | | |
|-----------------|------------------|
| a) Pneumococci | b) Staphylococci |
| c) Streptococci | d) Meningococci |

3B. Which of the following play an important role in cell division.

- | | |
|--------------|--------------|
| a) Flagella | b) Pilli |
| c) Cell wall | d) Cytoplasm |

3C. Examination of bacteria in dried, fixed films stained with aniline dyes was described by

- | | |
|-----------------|----------------|
| a) Robert Koch | b) Max Theiler |
| c) Louis Joblot | d) S. Waksman |

3D. In most bacterial species the chemical nature of capsule is usually

- | | |
|-----------------------|---------------------------|
| a) Lipopolysaccharide | b) Complex polysaccharide |
| c) Protein | d) Lipid |

- 3E. Flagellar arrangement over the entire bacterial cell surface is called
- Peritrichous
 - Lophotrichous
 - Amphitrichous
 - Monotrichous
- 3F. A core, cortex and exosporium are characteristics of prokaryotic _____.
- Ribosomes
 - Flagella
 - Cell wall
 - Spores
- 3G. Arthropods DO NOT play a role in the transmission of
- Malaria
 - Plague
 - Dengue
 - Typhoid
- 3H. Infections acquired in hospital is known as
- Re infection
 - Nosocomial infection
 - Opportunistic infection
 - Secondary infection
- 3I. The number of deaths caused by a disease in a population during a specific time period is known as
- Morbidity
 - Prevalence
 - Incidence
 - Mortality
- 3J. Organism that enter the patients from the environment cause
- Endogenous infection
 - Iatrogenic infection
 - Exogenous infection
 - Subclinical infection
- 3K. Food and other non living materials that may spread infectious agents examples of
- Reservoir
 - Fomite
 - Vehicle
 - Carrier
- 3L. Foods liable to get infected with Salmonellae are
- Meat
 - High salt food
 - Vegetables
 - Fish
- 3M. Carriers play a important role in transmission of all the following EXCEPT
- Tuberculosis
 - Typhoid fever
 - Diphtheria
 - Meningococcal infections
- 3N. Which of the following virus is NOT transmitted feco - orally
- Hepatitis A
 - Hepatitis C
 - Hepatitis E
 - Rotavirus
- 3O. Helminth infection transmitted through contaminated Pork is
- T. solium
 - T.saginata
 - Trichuris trichiura
 - Enterobius vermicularis

(1×15 = 15 marks)

