MANIPAL UNIVERSITY

FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – JUNE 2016

SUBJECT: BSN 103 – NURSING FOUNDATIONS (ESSAY)

Thursday, June 09, 2016

Time: 10:15 – 13:00 Hrs.   Max. Marks: 60

✍ **Answer ALL questions.**

1.   **Answer the following in relation to urinary incontinence**

1A.   Definition

1B.   Types

1C.   Management

                                                     (2+4+7 = 13 marks)

2A.   List the parenteral routes of drug administration.

2B.   Explain nurses responsibility in the administration of oral medication.

                                                     (4+8 = 12 marks)

3.   **Write short notes on the following:**

3A.   Functions of hospital

3B.   Types of communication

3C.   Methods of documentation

3D.   Factors affecting blood pressure

3E.   Factors affecting nutritional status

3F.   Standard precautions

3G.   Factors affecting wound healing

                                                     (5 marks × 7 = 35 marks)

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MANIPAL UNIVERSITY

FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – JUNE 2016

SUBJECT: BSN 102 – NUTRITION AND BIOCHEMISTRY (ESSAY)

Saturday, June 11, 2016

Time: 10:30 – 13:00 Hrs.   Max. Marks: 45

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

SECTION – A : NUTRITION : 25 MARKS

1. **Write short notes on the following:**

1A. Classification of foods

1B. Deficiency disorders of Vitamin D

1C. Functions of Sodium

1D. Nutritional requirement for a pregnant woman

1E. Features of Prevention of Food Adulteration Act (PFA)

(3 marks × 5 = 15 marks)

2. **Write short notes on the following:**

2A. Methods of nutritional assessment systems

2B. Any two functions of a nurse in ICDS programme

2C. Any two importance of cooking

2D. Types Iron containing proteins

2E. Sources of Zinc

(2 marks × 5 = 10 marks)

SECTION – B : BIOCHEMISTRY : 20 MARKS

1. **Short answer questions.**

1A. Classify amino acids based on their metabolic fate giving examples.

1B. What is the normal serum calcium level? Mention two functions of calcium.

1C. Name the coenzyme form of pyridoxine. Give two reactions where it acts as a coenzyme.

1D. i)   Define clearance of a substance.

     ii)   Name two enzymes that are useful in the diagnosis of liver disease.

(2 marks × 4 = 8 marks)

2. **Short answer questions:**

2A. Explain the fluid mosaic model of cell membrane with a neat labelled diagram.

2B. Classify enzymes giving one example for each class.

2C. Outline the steps involved in the synthesis of glycogen. Name the biochemical defect in von Gierke's disease.

2D. **Write a short note on:**

     i)   α Helix   ii)   β pleated sheet

(3 marks × 4 = 12 marks)

MANIPAL UNIVERSITY

FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – JUNE 2016

SUBJECT: BSN 101 – ANATOMY AND PHYSIOLOGY (ESSAY)

Wednesday, June 15, 2016

Time: 10:30 – 13:00 Hrs.   Max. Marks: 45

✍ **Answer Section 'A' and Section 'B' in two separate answer books.**

✍ **All questions are compulsory.**

✍ **Illustrate your answers with diagrams and flow charts wherever appropriate.**

SECTION "A": ANATOMY: 22 MARKS

1. **Write brief note on:**

1A. Ovary

1B. Intercostal muscles

1C. Liver

1D. Ureter

(3 marks × 4 = 12 marks)

2. **Write short notes on:**

2A. Name the coverings of the eyeball

2B. Name the branches of arch of aorta

2C. Write the anterior relations of left kidney

2D. Name the major openings of diaphragm

2E. Name the parts and endocrine secretions of pancreas

(2 marks × 5 = 10 marks)

SECTION "B": PHYSIOLOGY: 23 MARKS

1. **Write briefly on:**

1A. Control of voluntary movement by cerebrum and cerebellum

1B. Accommodation of eye to focus nearby objects

1C. Heart sounds- genesis, auscultation, abnormal sounds

(3 marks × 3 = 9 marks)

2. **Write briefly the following:**

2A. External respiration and internal respiration

2B. Posterior pituitary hormones

2C. Functions of saliva

2D. Platelet functions

2E. Role of placenta

2F. Abnormal constituents of urine

2G. Contractile filaments of skeletal muscle

(2 marks × 7 = 14 marks)

MANIPAL UNIVERSITY

FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – JUNE 2016

SUBJECT: BSN 107 – ENGLISH

Thursday, June 16, 2016

Time: 10:00 – 13:00 Hrs.   Max. Marks: 75

✍ **Answer ALL questions.**

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

   i)   Ranjana and me / studied in the same school / for five years. / NO ERROR
                A   B   C   D

   ii)   We are able to complete/many works at a shorter time/with the help of/the new programme.
                              A   B   C   D

   iii)   The project / will be completed / in a year. / NO ERROR
                A   B   C   D

   iv)   There is a new restaurant / in the town, / isn't it? / NO ERROR
                              A   B   C   D

   v)   Being a honest person,/ he did not want / to mislead the patient./ NO ERROR
                              A   B   C   D

                                                                        (1 mark × 5 = 5 marks)

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

   i)   My friend said that he _____ (can solve / could solve) the puzzle.

   ii)   Neither Raksha nor her friends _____ (was / were) present at the party.

   iii)   Some of your advice _____ (has / have) been quite useful.

   iv)   Everyone _____ (want / wants) to be happy in this world.

   v)   I _____ (have met / met) the doctor last week.

                                                                        (1 mark × 5 = 5 marks)

1C. **Rewrite the following as directed:**

   i)   Susan asked the teacher, "When will we get our results?"
          (Rewrite using reported speech.)

   ii)   The nurse told the patient, "Switch off the mobile, please."
          (Rewrite using reported speech.)

   iii)   The college celebrates the Annual Day in January. (Change into passive voice)

   iv)   They changed the college rules. (Change in to passive voice.)

   v)   The patient has paid all the bills. (Change in to passive voice.)

                                                                        (1 mark × 5 = 5 marks)

2A. Identify the appropriate **synonym** given for the following words:

i) **chaos**

    a) disorder   b) systematic   c) careless   d) happy

ii) **defer**

    a) propose   b) recommend   c) postpone   d) advance

(2 marks)

2B. Identify the appropriate **antonym** given for the following words:

i) **compassion**

    a) kindness   b) generosity   c) indifference   d) jealousy

ii) **anxiety**

    a) nervousness   b) bravery   c) reassurance   d) concern

(2 marks)

2C. Choose the correct word from the brackets:

i) We need to _____ her about the ways to tackle the problem. (counsel / council)

ii) He is afflicted by a different kind of _____ (disease / decease)

iii) One should never _____ composure in nursing profession. (loose / lose)

(3 marks)

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

i) The speaker was forced to _____ his speech due to time constraints. (cut out / cut short)

ii) The management was forced to _____ the demands of the employees for a pay hike. (give into / give away)

iii) They _____ the strike after the minister's promise to address their demands (called off / called up)

(3 marks)

3A. Transcribe the following words phonemically:

i) TOOTH

ii) CHEW

iii) CABIN

iv) COTTON

v) COUGH

(½ marks × 5 = 2½ marks)

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

i) Precaution

ii) Abroad

iii) Confidential

iv) Anxious

v) Opportunity

(½ marks × 5 = 2½ marks)

4A. **Read the following passage and answer the questions set on it:**

Here's a meal-by-meal guide to eating for energy and managing your mood with food.

Breakfast

Eating a good breakfast boosts your concentration and heightens your energy, particularly in the morning when you may need it most. Without breakfast, you're more likely to make that second pot of coffee by mid-morning.

Instead, keep your blood sugar on an even keel with complex carbohydrates. Avoid refined carbohydrates, such as white bread and white sugar. These have a high glycemic index, which can cause spikes and dips in your blood sugar levels.

The right complex carbohydrates provide your brain and muscles with the steady flow of the energy they need. Grains are great sources of B vitamins, which aid in the metabolic production of energy. The best carbohydrate choices for breakfast are natural whole-grain breads and cereals.

For the best breakfast, add a low-fat protein, such as yogurt, cottage cheese, or skim milk, and watch your fat intake as well as your meat consumption (meat takes more energy to digest).

Mid-morning snack

Turns out, snacking may not be such a bad idea. Eating every few hours helps your body use nutrients more efficiently. It stimulates your metabolism, keeps your blood sugar levels steady, reduces stress on your digestive system, and decreases hunger, which means you'll be less likely to overeat when mealtime finally rolls around.

Fruits and vegetables deliver a low-fat, high-fiber alternative to the vending machine choices. Raw carrots and sugar snap peas, for example, provide a crisp, satisfying crunch and won't zap your energy. Challenge yourself to eat at least five servings of fruits and vegetables each day.

For maximum energy throughout the day, avoid foods that are laden with simple sugars, such as cookies, pastries, candy bars, and sodas, which can bring on erratic blood sugar levels. Instead, try some lean protein (low-fat yogurt, cottage cheese or lean meat) to help tide you over until lunch.

Lunch

At midday, go light. Because a hefty helping of carbohydrates can increase the amount of seratonin in the brain and cause that sleepy feeling, instead focus on low-fat protein. Protein can actually raise energy levels by increasing brain chemicals called catecholamines. Eat a lunch of low-fat cheese, fish, lean meat, poultry, or tofu.

Mid-afternoon snack

Choose something that will keep you satisfied until dinner. A little bit of fat is fine. It gives those carbohydrates and proteins some staying power. My favorite? All-natural peanut butter and a few crackers.

Before your work-out

Carbohydrates are fastest to digest and pack quick energy. Add protein for staying power, but stay away from fats. They can make you cramp.

Dinner

The agenda for the evening can dictate what you'll eat for dinner. Need to stay on overdrive for back-to-school night? Choose low-fat proteins. If you're in relax mode, indulge a little.

Whatever's on the menu, remember the Pie Test. Envision your plate as a pie. Seventy-five percent of the pie should be filled with fruits, vegetables, and grains and 25 percent with other foods, such as diary products and meat.

Before bed

Before turning in, a carbohydrate-rich snack can supply seraton in to help you fall asleep. But go easy. Too much food can reduce the quality of your sleep.

Eating for energy is one of the most effective, powerful, and fast-acting mood-boosters. Try it today and see!

Questions:

i)   Which of the following **is true** according to the passage?
   a)   A cup of coffee in the morning is better for health.
   b)   A good breakfast in the morning is better for health.
   c)   A second cup of coffee in the morning is better for health.

ii)   The best carbohydrate choices for breakfast are
   a)   white bread and white sugar
   b)   natural whole-grain breads and cereals
   c)   both a) and b)

iii) Adding a good amount of meat for the breakfast leads to good health.   **True / False**

iv)   Eating every few hours
   a)   is good for health
   b)   is not good for health
   c)   results in overeating

v)   Which of the following snack would provide you more energy?
   a)   Cookies
   b)   Pastries
   c)   Low-fat yoghurt

vi)   Which of the following component is desirable for the body as a part of lunch?
   a)   Carbohydrates
   b)   Protein
   c)   Sugar

vii)   Which of the following component is **not very much desirable** for human body?

    a)   Carbohydrates

    b)   Protein

    c)   Fat

viii)   Which of the following is true according to the passage?

    a)   Major portion of your dinner should include vegetables and fruits.

    b)   Your dinner should not include any meat or diary products.

    c)   Your dinner can include meat, vegetables and fruits.

ix)   A selective snack before going to bed can induce sleep.   True / False

x)   According to the passage

    a)   There is connection between the mood of a person and his intake of food.

    b)   There is no connection between the mood of a person and his intake of food.

    c)   Food is the only reason for changes in a person's mood.

(1 mark × 10 = 10 marks)

4B.   Write a paragraph of not more than 100 words in your own words on right type of breakfast, lunch and dinner in your area.

(1 mark × 5 = 5 marks)

5.   You have completed your nursing course and wish to work in abroad. You have cleared the required tests for working abroad. A hospital in the UK is looking for fresh nursing graduates. Write a letter of application to the Dean, HR Department, XYZ Hospital, and London seeking a chance to serve in the hospital.

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

(6+4 = 10 marks)

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

It is the commonest ailment in the world, affecting 90% of people all over the globe. Throbbing and pounding, HEADACHE generates billions of dollars each year for aspirin manufacturers. Yet despite its universality, the simple pain in the head is not completely understood. According to Seymour Solomon, director of the Headache unit at Montefiore Medical Center, New York, " It's only in the past decade we've begun to understand the pain mechanisms, and there is still a lot to be learned."

But where does the pain come from in the first place?

Researchers know that people get headaches for all sorts of reasons – anything from muscular tensions to brain tumors. For example, tension headache usually results from psychological stress. This in turn may cause scalp muscles to contract too hard or too long. Nerve endings in the scalp, stimulated by the tightened muscles, relay electrochemical impulse to the brain, which interprets the signal as pain.

The notorious and dreaded migraine generates pain in a somewhat different way.

Blood vessels in the scalp alternately shrink and swell and, while swollen, allow certain biochemical to seep through the vessel walls to the surrounding tissue. There the chemicals initiate an inflammatory reaction, which stimulates nerve endings to send a signal to the brain.

About 10 percent of all headaches are caused by disease. Tumors can stretch and irritate the covering of the brain. And fever resulting from inflammations, such as those of the eyes, ears, nose, or neck can swell blood vessels in the head.

In chronic headaches, psychological factors are thought to loom large, aggravating, perpetuating – and at times even initiating – head pain.

What about the 10 percent of population that does not get headaches? Says Solomon, "We do not understand why the brain sometimes registers pain and other times does not."

(10 marks)

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

7A. Pollution- Causes and Solutions

7B. My Favourite Book

7C. Do We Need Reservation for Women in India?

(10 marks)

MANIPAL UNIVERSITY

FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – JUNE 2016

SUBJECT: BSN 106 – MICROBIOLOGY (ESSAY)

Saturday, June 18, 2016

Time: 10:30 – 13:00 Hrs.   Max. Marks: 45

✍ **Answer ALL questions.**

✍ **Write answers that are clear, relevant and legible.**

✍ **Illustrate your answers with neatly drawn and correctly labeled diagram wherever appropriate.**

1. **Write short answers on:**

1A   Define selective media with two examples

1B. Function of fimbriae

1C. Four uses of gram stain

1D. Name four virulence factors produced by Streptococcus pyogenes

1E. ETEC

1F. Montoux test

1G. Name two diseases produced by Dermatophytes

1H. Name four diseases produced by Aspergillus spp

1I. Define virulence

1J. Describe the clinical features of kala azar

1K. Hydatid disease

1L. Name four diseases caused by Epstein barr virus

1M. Name two types of mosquito borne viral infections

1N. Name four sources of pathogenic microrganisms

1O. Four methods of sample collection

(2 marks × 15 = 30 marks)

2. **Write short answers on:**

2A. Define and classify sterilisation. How does it differ from disinfection?

2B. Describe in detail laboratory diagnosis of *Salmonella typhi*

2C. Describe in detail laboratory diagnosis of *Candida albicans*

2D. Laboratory diagnosis of *Plasmodium falciparum*

2E. Describe in detail laboratory diagnosis of Human immunodeficiency virus

(3 marks × 5 = 15 marks)

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FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – JUNE 2016

SUBJECT: BSN 105 – PSYCHOLOGY (ESSAY)

Tuesday, June 21, 2016

Time: 10:30 – 13:00 Hrs.   Max. Marks: 45

✍ **Answer ALL the questions.**

1.   **Write short notes on:**

1A.   Introspection.

1B.   Explain the Cannon-Bard and James-Lange Theory of emotions.

1C.   What is forgetting? Explain interference theory of forgetting.

1D.   Write any four theories of intelligence.

1E.   Classical conditioning.

(3 marks × 5 = 15 marks)

2.   **Write very short notes on:**

2A.   Name four applied branches of psychology

2B.   Heredity

2C.   Absolute threshold

2D.   Perception

2E.   Sustained attention

2F.   Thinking

2G.   Maslow's theory of motivation

2H.   Unconditioned response

2I.   Long term memory

2J.   Personality

2K.   What are the factors that influence attitude formation?

2L.   What are the characteristics of mentally healthy individuals?

2M.   Mechanical aptitude tests

2N.   Non verbal test of intelligence

2O.   How learning psychology helps nurses in their profession?

(2 marks × 15 = 30 marks)

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FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – MAY/JUNE 2016

SUBJECT: INTRODUCTION TO COMPUTERS (BSN 108)

Monday, May 23, 2016

Time: 10:00 – 10:30 Hr.   Max. Marks: 25

✍ **Answer ALL the questions.**

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

1A.   _____ isn't a correct option in a normal computer.

   a)   Restart   b)   Stand By
   c)   None of these   d)   Sleep

1B.   Whatever the case may be, the system clock will always show the correct current Date & Time.
   (Support your answer with proper justification)
   a)   True   b)   False

1C.   'Ctrl' key on a keyboard is called _____ key.

   a)   Command   b)   Control
   c)   Create   d)   There is no such key

1D.   _____ is the Shortcut-key saving a file.

   a)   Ctrl + S   b)   Alt + F + S
   c)   Shift + S   d)   All the above

1E.   On the basis of functionality, mouse can be categorized into _____ types.
   [Mention the type(s)]

   a)   1   b)   3
   c)   2   d)   4

1F.   _____ is not a type of network *(based on network scale)*.

   a)   LAN   b)   PAN
   c)   MN   d)   CN

1G.   On general basis, the characteristics of Computer having '*No Feeling*' is a disadvantage.
   [Justify your answer]

   a)   True   B)   False

1H.   Full form of MS in 'MS Word' is _____.

   a)   Mac Server   b)   Microsoft
   c)   Main System   d)   Multi Server

1I.   _____ is not an Operating System.

    a)   Unix   b)   Linux
    c)   Pixel   d)   Windows

1J.   1 Byte = _____ bit(s).

    a)   6   b)   8
    c)   2   d)   4

1K.   _____ is not an Input device.

    a)   Webcam   b)   Joystick
    c)   Plotter   d)   Game Pad

1L.   Normal Capacity of a CD is *(nearly)* _____ MB.

    a)   1020   b)   850
    c)   700   d)   400

1M.   _____ is the cheapest one *(commercially)*.

    a)   DVD - RW   b)   Flash Drive
    c)   CD – R   d)   CD – RW

1N.   1 KB = _____ bits.

    a)   1024 * 6   b)   1042 * 8
    c)   1024 * 1042 * 8   d)   1024 * 8

1O.   _____ is a Binary number.

    a)   121   b)   0
    c)   All are Binary   d)   10210

(1 mark × 15 = 15 marks)

2.   **Answer each questions with limited and accurate details: (Write the extensions, wherever required)**

2A.   List and describe in short different Components of Computer.

2B.   Write 3 different ways to Sum 5 numbers stored in and Excel file at address: A3, A4, A5, B5, C5, D9.

2C.   Explain the terms: Resolution and MAN; with respect to Computers.

2D.   Discuss usage of Computer in Medical Science and Nursing domain.

2E.   Discuss various aspects for securing the Information in a Computer.

(2 marks × 5 = 10 marks)