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**ARKA JAIN**  
**University**  
Jharkhand



**2<sup>nd</sup> Semester End Term Examination: January 2024**

**Subject: Applied Biochemistry and nutrition and Dietetics**

**Program: BSc. Nursing**

**Full Marks: 75**

**Time : 3 Hours.**

**Instructions to the Candidates:**

- Read the question paper very carefully.
- Start writing from 2nd page onwards; Don't write on the 1st Page Backside.
- Question Paper is divided into Three Parts -A, B.
- **Section-A** is containing 25 marks containing Four MCQ, Three Very Short & Three Short.
- **Section-B** is containing 50 marks containing Eight MCQ, Six Very Short, and Four Short & One Essay Answer Questions.
- Do not write anything except your Roll No. on the question paper.
- Possession of Mobile Phones or any kind of Written Material, Arguments with the Invigilator or Discussing with Co-Student will come under Unfair Means and will Result in the Cancellation of the Papers.

**SECTION - A [Applied Biochemistry]**

**Multiple Choice Questions**

**[4\*1=04 Marks]**

- (i) Transamination of aspartate:
  - Pyruvate
  - Acetyl CoA
  - Oxaloacetate
  - Alanine
- (ii) Gluconeogenesis occurs predominantly in the
  - Brain
  - Skeletal Muscle
  - Adipose tissue
  - Liver
- (iii) Sucrose has glucose & \_\_\_\_\_
  - Maltose
  - Fructose
  - Glycogen
  - Galactose
- (v) The normal PH of human blood is:
  - 7.0-7.1
  - 7.25-7.3
  - 7.35-7.45
  - 7.5-7.55

**Very Short Questions [Answer any THREE out of FIVE - 06 Marks]**

**[Each question Carry 02 marks]**

**[2\*3=6]**

- What is Essential amino acids?
- Define Diabetes and jaundice.
- Define glycolysis.

5. What are the type of vitamin B deficiency disease?  
 6. Write the normal value of total bilirubin and glucose fasting.

**Short Questions [Answer any THREE out of FIVE - 15 Marks]**

[Each question Carry 05 marks]

7. Explain about fluid Mosaic model.
8. Classify carbohydrates
9. Discuss Renal Function test.
10. Explain ketone bodies.
11. Describe Phenylketonuria.

**SECTION - B [Applied Nutrition and Dietetics]**

**Multiple Choice Questions [8\*1=08]**

12. i) Hypocalcemia can lead to
  - a) Tetany
  - b) Osteoporosis
  - c) Laryngeal spasm
  - d) All of the above
- ii) Folate trap is due to deficiency of
  - a) Folic acid
  - b) Vitamin B12
  - c) Pantothenic acid
  - d) Vitamin B1
- iii) Organism take nutrients in solution form from dead and decaying manner is called
  - a) Saprophytic
  - b) Symbiotic
  - c) Parasitic
  - d) Epiphytic
- iv) When nutrient is given directly in the vein is called
  - a) Bland
  - b) Enteral
  - c) Parenteral
  - d) Saline
- v) Requirement for iron during pregnancy is \_\_\_\_\_
  - a) 40mg
  - b) 29mg
  - c) 19mg
  - d) 23mg
- vi) Which disease is caused by deficiency of protein?
  - a) Pellagra
  - b) Marasmus.
  - c) Beri beri
  - d) Rickets
- vii) Which of the following vitamin is soluble in water?
  - a) Vitamin C
  - b) Vitamin A
  - c) Vitamin K
  - d) Vitamin D
- viii) What macro nutrients provides the calories per gram
  - a) Protein
  - b) Carbohydrate
  - c) Fat
  - d) Fiber

**Very Short Questions [Answer any SIX out of SEVEN - 12 Marks]**  
 [Each question Carry 02 marks] [2\*6=12]

13. What is Lathyrism and Fluorosis.
14. Name the deficiency caused by Iodine.
15. What is nitrogen balance?
16. List down the sources of calcium
17. Enlist the benefits of vitamin C and its deficiency
18. What is balance diet?
19. List out the dietary source of Fat & Fatty Acids.

**Short Questions [Answer any FOUR out of FIVE - 20 Marks]**

[Each question Carry 05 marks] [5\*4=20]

20. Describe Factors affecting BMR
21. Discuss Protein Energy Malnutrition
22. State Principles of menu planning
23. Explain Household method of food preservation
24. Discuss Anthropometry

**Essay Questions [Answer any ONE out of TWO - 10 Marks]**

[Each question Carry 10 marks]

25. Explain the methods of cooking in detail.
26. Discuss vitamin A in detail.



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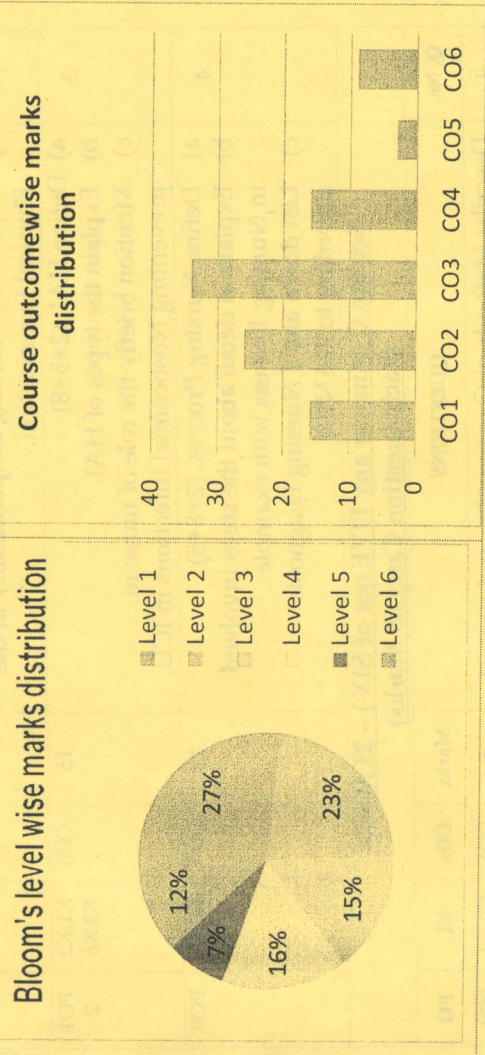


**END SEM EXAMINATION**  
School of Nursing

<b>Program</b>	<b>Bachelor of Science in Nursing</b>	
<b>Subject Name</b>	<b>Nursing Foundation- I &amp; II Incl. Health Assessment Module</b>	<b>Semester Year</b> 2nd January, 2025
<b>Time: 3 Hour</b> <b>Max. Marks : 75</b>	<ul style="list-style-type: none"> <li>Start writing from 2nd page onwards; don't write on the 1st Page Backside</li> <li>Answer all Questions of Section A (Compulsory)</li> <li>Answer Any Two out of Three of Section B</li> <li>Answer Any Five out of Six of Section C</li> <li>Answer all Question of Section D</li> <li>Possession of Mobile Phones or any kind of <u>Written Material, Arguments with the Invigilator or Discussing with Co-Student</u> will comes under <u>Unfair Means</u> and will <u>Result in the Cancellation of the Papers.</u></li> </ul>	
<b>Knowledge Level (KL)</b>	<b>K1 : Remembering</b>	<b>K3 : Applying</b> <b>K5 : Evaluating</b>
	<b>K2 : Understanding</b>	<b>K4 : Analysing</b> <b>K6 : Creating</b>

Q.N I	QUESTIONS	Marks		PO
		COs	KL	
i	Basic Human Needs Model was proposed by: a. Florence Nightingale. b. Dufferin c. Abraham Maslow d. Travis	1	CO2 K2,K1	PO2
ii	The process of enabling people to improve their health is called: a. Prevention b. Health Promotion c. Rehabilitation d. Eradication	1	CO3 K2,K1	PO3
iii	Comfort device used to prevent foot drop is: a. Foot Stool b. Foot Step c. Foot Rest. d. Foot Roll	1	CO5 K5,K1	PO9
iv	A doctor prescribes 250 mg of a medication. The medication is available in 500 mg tablets. How many tablets should you administer? a. 01 tablet b. 0.2 tablet c. 0.5 tablet d. 04 tablet	1	CO2 K5	PO2

CO- Course Outcomes,	KL- Knowledge Level,	PO - Program Outcome
CO1	Acquire high consciousness/realization of current issues related to health	
CO2	Get knowledge about pharmaceutical problems within the country and worldwide	
CO3	Understand about various preventive medicines	
CO4	Have a critical way of thinking based on current healthcare development	
CO5	Evaluate alternative ways of solving problems related to health and pharmaceutical issues	
CO6	Design a better health care service system	



v	One ounce is equal to: a. 10 ml b. 20 ml c. 30 ml d. 40 ml	1	CO3	K2,K1	PO1
vi	Stomatitis is the inflammation of: a. Stoma b. Mucus membrane c. Gums d. Roots of teeth	1	CO1	K1	PO7
vii	Effleurage means: a. Massage the back with short, quick strokes b. Massage the back with smooth, long strokes c. Massage the back with smooth, quick strokes d. Massage the back continuously	1	CO4	K1,K3	PO3
viii	Hypothalamus controls: a. Body Temperature b. Pulse c. Respiration d. Blood Pressure	1	CO2	K1,K4	PO1
ix	The best method of sterilization of rubber gloves: a. Hot Steam b. Autoclaving c. Sunlight d. Glutaraldehyde Solution	1	CO4	K2,K3	PO1 2
x	When a nurse performed the physical examination of abdomen the sequence of examination should be: a. Inspection, Auscultation, Percussion, Palpation b. Inspection, Palpation, Percussion, Auscultation c. Auscultation, Inspection, Percussion, Palpation d. Percussion, Inspection, Auscultation, Palpation	1	CO4	K2,K4	PO1
xi	Appropriate first aid measure for dog bite includes all except: a. Wash the area b. Wash the dog c. Apply bandage d. Both a & c	1	CO3	K1,K2	PO7

xii.	Minimum Score of Glasgow Coma Scale (GCS) is: a. 15 b. 08 c. 12 d. 03	1	CO3	K1,K2	PO1
<b>Section B (Answer any TWO out of THREE) - 30 Marks</b> (Each question Carry 15 Marks)					
Q. No.	QUESTIONS	Marks	COs	KL	PO
2	a) Define Health Assessment. (2+8+5) b) Explain in detail about Methods of Health Assessment. c) Explain the Nursing Responsibility in the Physical Examination.	15	CO2	K1,K2,K4	PO1 0
3	a) Define HAI. (2+5+8) b) Explain the types of HAI. c) Mention briefly the role of nurse in preventing Nosocomial Infections in ICU.	15	CO3	K1,K2,K3,K6	PO1 2
4	a) Define Nursing Process. (2+8+5) b) Explain in detail about the steps involved in Nursing Process with example. c) List down any 5 Nursing Diagnosis according to NANDA *	15	CO4	K2,K5,K1	PO9
<b>Section C (Answer any FIVE out of SIX) - 25 Marks</b> (Each question Carry 05 Marks)					
Q. No.	QUESTIONS	Marks	COs	KL	PO
5	Describe Methods of Oxygenation and uses of Masks.	5	CO1	K2,K4	PO1
6	Explain Qualities of nurse.	5	CO1 CO2	K1,K6	PO1
7	State GAS (General Adaptation Syndrome).	5	CO2	K3,K5	PO9
8	Describe Stages of Grief Process.	5	CO3	K1,K6	PO5
9	Discuss Types of Hospitals.	5	CO3 CO2	K1,K2	PO4
10	Classify Levels of Care.	5	CO3	K3,K6	PO4
<b>Section D (Answer All) - 08 Marks</b> (Each question Carry 02 Marks)					
Q. No.	QUESTIONS	Marks	COs	KL	PO
11	Define Safety devices.	2	CO3	K1,K4	PO7
12	Define Euthanasia & its types.	2	CO6	K6,K2	PO5
13	Enlist the types of Enema.	2	CO3	K1,K3	PO2
14	Incorporate Rights of Drug Administration.	2	CO2	K3	PO2