



**ARKA JAIN  
University**  
Jharkhand

**SCHOOL OF NURSING**

**1<sup>ST</sup> INTERNAL EXAMINATION**

**COURSE - GNM**

**TIME - 2 HOURS**

**SUBJECT -BIO SCIENCE (ANATOMY AND PHYSIOLOGY +MICROBIOLOGY)**

**TOTAL MARKS -50**

**Instructions to the Candidates:**

- Read the question paper very carefully.
- Start writing from 2nd page onwards; **don't write on the 1st Page Backside.**
- 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 Paper**

**ALL THE QUESTIONS ARE TO BE ANSWERED MANDATORY**

**Q1. Long Questions.**

**(5+5+5= 15)**

- Draw the Diagram of Heart.
- Draw the Schematic Diagram of the Heart and Explain the Circulation of blood.
- Explain about the bacterial growth Curve.

**Q2. Short Questions.**

**(2x10=20)**

- Define Microbiology.
- Enlist the classification of micro-organism.
- Discuss about the Rickettsia.
- Write the function of the heart.
- Write the levels of structural complexity.
- Write the process of Blood Clotting.
- What are cells? Enlist the Organelles.
- Write the function of the Blood.
- Difference between Prokaryotic cell and Eukaryotic cell.
- How many cavities are there in the human body?

**Q3. True and False(1x5=5)**

- Heart has six chambers.
- Right atrium is consist with the deoxygenated blood.
- Tricuspid valve is between left atrium and left ventricle.
- Aorta is the largest artery in the body.
- Pulmonary vein supply blood to all over the body.

**Q4. Fill in the blanks.**

**(1x5=5)**

- PH of the blood is \_\_\_\_\_
- Cells are the \_\_\_\_\_ & \_\_\_\_\_ units of the body.
- Microbiology is derived from \_\_\_\_\_ word.
- Study of bacteriology is termed as \_\_\_\_\_
- Prokaryotic cell are \_\_\_\_\_

**Q5. Match the following.(1x5=5)**

- |                          |              |                      |
|--------------------------|--------------|----------------------|
| i. Plasma Protein        | a. Skin      | b. Platelets         |
| ii. Blood                |              | c. Connective Tissue |
| iii. Adipose Tissue      | d. fat cells | e. Globulins         |
| iv. Integumentary system |              |                      |
| v. Thrombocytes          |              |                      |

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