

**Madhya Pradesh Medical Science University, Jabalpur**  
**First Year PBBSC Nursing Examination Feb - 2018 (Main)**

**Paper Code:- 18AN0101101851**

**Subject:- BIOCHEMISTRY & BIOPHYSICS**

**Time: 3 Hours**

**Maximum Marks: 75**

- 1) *All questions are compulsory*
- 2) *Attempt all question in serial order.*
- 3) *Illustrate your answer with well labelled diagram.*

- Q.No.1.** (a) Define Enzyme. **(2+7+6=15)**  
(b) Explain Chemical nature of Enzyme.  
(c) Describe the factors affecting enzyme activity.
- Q.No.2.** (a) Write biomedical importance of lipid. **(5+5+5=15)**  
(b) Explain metabolism during fasting and starvation  
(c) Describe significance of blood cholesterol
- Q.No.3.** (a) Explain speed, velocity and acceleration, how they are related. **(6+4=10)**  
(b) Give examples of accelerated motions
- Q.No.4.** (a) Define heat and temperature. **(4+6=10)**  
(b) Explain the advantages of mercury as the thermometric substance.
- Q.No.5. Write short notes on (Any Five)** **(5x5=25)**  
(a) Noise pollution and its prevention.  
(b) Accuracy of measurement.  
(c) Way of transfer heat from body.  
(d) Chemical nature of enzyme.  
(e) Blood glucose and its regulation.  
(f) Functions of water  
(g) Vector