

Supplementary

Total No. of Printed Pages – 2

SS/PBN-I/BP/3-15

2015

(March)

BIOPHYSICS & BIOCHEMISTRY

Full Marks : 75

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Answer **all** questions

*Write the answers to the two Halves
in separate books*

FIRST HALF

1. Fill in the blanks

1×5=5

- (a) Total internal reflection is due to _____.
- (b) The P wave in an ECG wave is due to atrial dep.
- (c) convexive/convex lens is used to correct astigmatism.
- (d) Scalar quantities have magnitude but no direction.
- (e) Haemometer is used to measure Hb.

(Turn Over)

(2)

2. Define force. What is the unit of force in S.I. unit? Describe friction force. 2+1+5=8
3. What are the laws of Refraction? Explain with diagram the image formation by different types of lenses. 2+8=10
4. Write short notes on the following (any four) 3×4=12
- (a) LASER
 - (b) Blood pressure
 - (c) Mechanism of hearing
 - (d) Heat production in the body
 - (e) Ultrasound

SECOND HALF

5. Define Gluconeogenesis. How Blood Glucose is level maintained? Describe in detail. 2+8=10
6. Write the definition of enzyme. Classify enzymes and add a note on different enzymes active in human body. 2+8=10
7. Write short notes on (any four) 5×4=20
- (a) Ketone bodies
 - (b) Plasma proteins
 - (c) Essential amino acids
 - (d) Lipoproteins
 - (e) Amylase

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