



AB-3123

Third Year B. Sc. (Physics) (I.D.) (Sem. V) Examination
March/April – 2015

General Elective - Bio - Physics

(CAN)

Time : 2 Hours]

[Total Marks : 50

Instructions : (1)

नीचे दशांशिक निशान्तीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. : <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Name of the Examination : Third Year B. Sc. (Physics) (I.D.) (Sem. V)	<input type="text"/> Student's Signature
Name of the Subject : General Elective - Bio - Physics (CAN)	
Subject Code No. : <input type="text" value="3"/> <input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="3"/> Section No. (1, 2,.....): <input type="text" value="Nil"/>	

- (2) The marks shown on right is the full marks of the question.
(3) The symbols used in the question paper have their usual meaning.

1 Give short answers of all questions : 8

- (1) What is biostatics?
- (2) When the system is called in the static equilibrium?
- (3) What is Mass Specific Muscle Power for human?
- (4) Bone is a _____ tissue.
- (5) Which fluids are called Newtonian fluids?
- (6) The blood is a _____ fluid. (non —Newtonian, Newtonian).
- (7) What is turbulence?
- (8) Full name of GRIN.

2 (a) Explain locomotion in water in detail. 10

OR

- (a) Explain Hemodynamics in detail. Also explain plasma skimming, turbulence and pressure flow relation.
- (b) Explain work of breathing. 4

OR

- (b) Explain role of gravity. 4

- 3 (a) Explain in detail the physiology of Respiration and physics of Alveoli. 10

OR

- (a) Draw a neat figure of human ear and explain in detail its working. 10
- (b) Explain the Myopia and Hyperopia in eye. 4

OR

- (b) Explain wave velocity. 4

- 4 Attempt any two : 14

- (1) Explain photoreceptors and fiber optics.
- (2) Explain the terms loudness, pitch and quality of sound.
- (3) Explain negative pressure in the tree. Draw the necessary figure.
- (4) Explain transport of CO₂ in blood.
