DG-3123
Third Year B. Sc. (Sem. V) Examination
March/April - 2016
Physics (Gen. Ele.)
(Bio-physics) (CAN)

Time : Hours] [Total Marks : 50

Instructions :
(1) Fill up strictly the details of signs on your answer book.
Name of the Examination :
Third Year B. Sc. (Sem. V)
Name of the Subject :
Physics (Gen. Ele.) (Bio-physics) (CAN)

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

Q:1 GIVE SHORT ANSWERS OF ALL QUESTIONS.

1) What is biostatics?
2) There are two types of bone tissues, _______ and _______.
3) What is Mass Specific Muscle Power for human?
4) Density of compact bone is app. _______ gm/cm³.
5) Which fluids are called Newtonian fluids?
6) The blood is a _______ fluid. (non –Newtonian, Newtonian).
7) The _______ produces sound, while _______ flow is silent.
8) Full name of GRIN.

Q:2(a) Explain locomotion in Water in detail.

OR

(a) Give a detail report on Xylem transport.
(b) Write a note on temperature dependence of fluid.

OR

(b) Explain role of gravity.

Q:3(a) Explain in detail the physiology of Respiration and physics of Alveoli.

OR

DG-3123] 1 [Contd....
(a) Draw a neat figure of human eye. Explain the terms refraction, GRIN, spherical and chromatic aberration.

(b) Explain the Myopia and Hyperopia in eye.

OR

(b) Explain sound impedance.

Q: 4 Attempt any two.

1) Explain Retina and Photoreceptor.

2) Explain the Phloem transport.

3) Explain reduced eye model with diagram of eye.

4) Explain transport of $O_2$ in blood.