

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086.
(For candidates admitted during the academic year 2011-2012)

SUBJECT CODE : 11PH/ME/BM53

B.Sc. DEGREE EXAMINATION NOVEMBER 2013
BRANCH III - PHYSICS
FIFTH SEMESTER

COURSE : MAJOR – ELECTIVE
PAPER : BIO-MEDICAL PHYSICS
TIME : 3 HOURS

MAX. MARKS : 100

SECTION - A

ANSWER ALL QUESTIONS:

(10x3=30)

1. What are X rays?
2. Define the term Angiography.
3. What is ultrasound?
4. Mention two uses of ultrasound.
5. Define Cardiac Cycle.
6. What is ECG?
7. Define Magneto Biology.
8. What is Lorentz Force?
9. Define half life of a radioactive substance.
10. What is PET?

SECTION – B

ANSWER ANY FIVE QUESTIONS:

(5x6=30)

11. Write a note on X-ray production.
12. Explain briefly Stethoscope.
13. Draw the diagram of nerve cell and label its parts.
14. Write note on EEG.
15. Briefly explain Radioactivity.
16. Give the effect of radiation on living tissue.
17. Write note on sound spectra.

SECTION – C

ANSWER ANY TWO QUESTIONS:

(2x20=40)

18. Give the applications of X ray imaging in Medicine.
19. Write briefly on Bio magnetism and Bio-electricity.
20. Write an essay on Nuclear Medicine.
21. Highlight the importance of Medical Sonography.
