

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

SUBJECT CODE : 11PH/ME/BM53

B.Sc. DEGREE EXAMINATION NOVEMBER 2016
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. Write any two applications of x-ray imaging?
3. Define branch of Agnostics
4. What is phonocardiography?
5. What are types of Synapse?
6. Write any three applications of diagnostic techniques?
7. Define Lorentz force.
8. What is MEG?
9. Define Gamma radiation.
10. What is nuclear radiactivity?

SECTION – B

ANSWER ANY FIVE QUESTIONS: (5x6=30)

11. Explain the photographic x-ray films.
12. Define ultrasound, and write the uses of ultrasound.
13. Explain the electrophysiology in general.
14. Explain the spontaneous electrical activity in Bio-magnetism.
15. Explain the radioactivity in medical diagnostics?
16. Explain the radiation therapy for cancer.
17. Explain the IVP.

SECTION – C

ANSWER ANY TWO QUESTIONS: (2x20=40)

18. Explain the angiography and digital subtraction angiography (DSA).
19. Explain the electrocardiography ECG and its uses.
20. Explain the position emission Tomography PET.
21. Write the applications of diagnostics techniques in (i) EEG (ii) MEG.
