

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086.  
(For candidates admitted during the academic year 2008-09)

SUBJECT CODE : PH/ME/TP25

**B.Sc. DEGREE EXAMINATION APRIL 2009**  
BRANCH III - PHYSICS  
SECOND SEMESTER

COURSE : MAJOR – ELECTIVE  
PAPER : TECHNIQUES OF PHOTOGRAPHY  
TIME : 3 HOURS MAX. MARKS : 75

**SECTION – A**

ANSWER ALL QUESTIONS: (10 x 2 = 20)

1. Define depth of field.
2. List the conventional film formats widely used for photography.
3. Differentiate between soft and hard light.
4. Define focal length of the lens and mention its relation with size of the image formed.
5. Define correction filter.
6. What do you understand by fixing?
7. What is a safe light? Why is it called so?
8. State the essential characteristics of a good enlarger.
9. Explain Photogram.
10. What is charge coupled device (CCD)?

**SECTION – B**

ANSWER ANY FIVE QUESTIONS: (5 x 5 = 25)

11. Describe the following major controls of modern camera  
a) View finder      b) Focusing knob      c) Aperture      d) Shutter
12. Explain the different types of light in photography.
13. How is the Human eye compared to a camera?

14. Define Shutter in a camera and explain the two types of shutters.
15. Explain the following in a photographic film:  
a) contrast and      b) sensitivity to light.
16. Write notes on a) burning-in-procedure and b) dodging procedure in enlargement.
17. Differentiate between condenser and diffuser enlarger.

**SECTION – C**

ANSWER ANY TWO QUESTIONS:

(2 x 15 = 30)

18. a) Explain in detail the construction and working of a Single Lens Reflex (SLR) camera with suitable diagram.  
b) Differentiate between single lens reflex (SLR) and twin lens reflex (TLR) camera.
19. a) Explain various flash techniques in photography.  
b) What are Filters? Explain the working of filters.
20. Write short notes on  
a) Wide angle lens  
b) Zoom lens  
c) Mirror lens  
d) Telephoto lens
21. a) Describe the Major steps involved in black and white Tank development film Processing.  
b) Describe the characteristics of a photographic paper.

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