

**THE APOLLO UNIVERSITY**  
**Saketa, Chittoor, AP**  
**AHS- IV Semester End Examination, June, 2024**  
**PAPER -II – IMTT 2505 - DARK ROOM AND FILM PROCESSING**  
**TECHNIQUES**

**Time: 3 hours**

**Max. Marks: 60**

**Section –A (10x2=20 marks)**  
**Answer all Questions with Short Notes**

1. Define sensitive emulsion layer.
2. What is parallax error?
3. What is pH value?
4. What is Tele- Radiography system?
5. What is magnification?
6. What is FFD and FOD?
7. What is buffer solution?
8. What is replenishment?
9. Define fluorescence.
10. What is film hopper?

**Section –B (5X8=40 marks)**  
**Answer all Questions either A or B in 400 words each**

11. A) What are the various types of films available? Explain in detail about double side coated X-ray film?  
**OR**  
B) Draw the cross section of single sided film AND of double coated film.
12. A) What is silver recovery? Describe the electrolysis method of silver recovery.  
**OR**  
B) Explain in detail about PACS and its advantages and disadvantages.
13. A) Describe in detail about the types of grid.  
**OR**  
B) Explain in detail about the types of radiographic mottle.

**Cont.....**

14. A) Explain in detail about immersion heater with thermostat, heat exchange and waster mixer in automatic processor.

**OR**

B) Explain in detail the methods of feeding the film relative to the replenishment rate.

15. A) Explain about the type of darkroom entrance with a neat diagram.

**OR**

B) What is Cassette? Explain in detail about the types of cassettes.

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