

801847- X-RAY FLIM IMAGE PROCESSING TECHNIQUES

UNIT 6- AUTOMATING PROCESSING

I. ELABORATE ON

10 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference (Exam Year)	Bloom's Taxonomy
1	Explain in detail automatic film processing, including automatic film handling systems, automated processors, and the functions of various components.	August 2011	Analysis
2	Describe the equipment used in film processing, focusing on film roller transport, transport time, film feed system, and their relation to temperature and time cycles.	February 2012	Understanding
3	Discuss automatic processing techniques, including the importance of fixed and variable time cycles, care, maintenance, and cleaning routines.	August 2012	Analysis
4	Explain the functioning of automated processors, detailing film roller transport, film feed systems, and the impact of temperature on processing efficiency.	February 2013	Analysis
5	Describe automatic film handling systems, including equipment components, transport time, and maintenance practices for optimal performance.	August 2013	Understanding
6	Elaborate on the role of automated processors in film processing, including film roller transport, feed systems, and the significance of cleaning routines.	February 2014	Analysis
7	Discuss the importance of temperature and time cycles in automatic processing, including the functions of film roller transport and maintenance procedures.	August 2014	Analysis
8	Explain the components and operation of automatic film processing systems, focusing on film feed systems, transport time, and care practices.	February 2015	Understanding
9	Describe the automated processors' role in film handling, including the relation of temperature to fixed and variable cycles, and methods of cleaning.	August 2015	Analysis
10	Discuss automatic processing equipment, including film roller transport, feed systems, and the importance of regular maintenance and cleaning routines.	February 2016	Analysis

II. WRITE A NOTE ON

5 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference (Exam Year)	Bloom's Taxonomy
1	Explain automatic film processing.	August 2011	Understanding
2	Describe automatic film handling systems.	August 2011	Knowledge
3	What are automated processors? Explain.	August 2011	Understanding
4	Discuss equipment for film processing.	February 2012	Knowledge
5	Explain the functions of various components.	February 2012	Understanding
6	Describe film roller transport.	February 2012	Understanding
7	Explain transport time in processing.	August 2012	Understanding
8	Discuss film feed system operations.	August 2012	Analysis
9	What is the importance of temperature?	February 2013	Knowledge
10	Explain fixed and variable time cycles.	February 2013	Understanding
11	Describe care and maintenance practices.	August 2013	Knowledge
12	Explain cleaning routines for processors.	August 2013	Understanding
13	Discuss methods of cleaning equipment.	February 2014	Analysis
14	What is the role of film roller transport?	February 2014	Understanding
15	Describe transport time effects.	August 2014	Knowledge
16	Explain film feed system design.	August 2014	Understanding
17	Discuss temperature impact on processing.	February 2015	Knowledge
18	Explain fixed cycle benefits.	February 2015	Understanding
19	Describe variable cycle adjustments.	August 2015	Understanding
20	Explain maintenance schedules.	August 2015	Understanding
21	Discuss cleaning routine frequency.	February 2016	Knowledge
22	Explain processor care techniques.	February 2016	Understanding
23	Describe film transport mechanisms.	August 2016	Knowledge
24	Explain feed system maintenance.	February 2017	Understanding
25	Discuss temperature control methods.	February 2018	Analysis
26	Explain time cycle optimization.	August 2018	Understanding
27	Describe cleaning solution use.	February 2019	Knowledge

S.No	Question	Reference (Exam Year)	Bloom's Taxonomy
28	Explain roller cleaning procedures.	August 2019	Understanding
29	Discuss maintenance troubleshooting.	February 2020	Analysis
30	Explain automatic processor efficiency.	March 2021	Understanding
31	Describe film handling automation.	April 2022	Knowledge
32	Explain transport time management.	November 2022	Understanding
33	Discuss temperature regulation.	April 2023	Analysis
34	Explain cleaning method effectiveness.	April 2024	Understanding
35	Describe processor component functions.	August 2011	Knowledge
36	Explain film feed system importance.	February 2012	Understanding
37	Discuss roller transport design.	August 2012	Analysis
38	Explain transport time adjustment.	February 2013	Understanding
39	Describe fixed cycle operations.	August 2013	Knowledge
40	Explain variable cycle benefits.	February 2014	Understanding

III. WRITE SHORT NOTE ON

3 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference (Exam Year)	Bloom's Taxonomy
1	Define automatic processing.	August 2011	Knowledge
2	Define automatic film handling.	August 2011	Knowledge
3	Define automated processors.	August 2011	Knowledge
4	Define film processing equipment.	February 2012	Knowledge
5	Define component functions.	February 2012	Knowledge
6	Define film roller transport.	August 2012	Knowledge
7	Define transport time.	August 2012	Knowledge
8	Define film feed system.	February 2013	Knowledge
9	Define temperature importance.	February 2013	Knowledge
10	Define fixed time cycles.	August 2013	Knowledge
11	Define variable time cycles.	August 2013	Knowledge
12	Define care and maintenance.	February 2014	Knowledge

S.No	Question	Reference (Exam Year)	Bloom's Taxonomy
13	Define cleaning routine.	February 2014	Knowledge
14	Define cleaning methods.	August 2014	Knowledge
15	Define processor operation.	August 2014	Knowledge
16	Define roller mechanism.	February 2015	Knowledge
17	Define feed system role.	February 2015	Knowledge
18	Define transport efficiency.	August 2015	Knowledge
19	Define temperature control.	August 2015	Knowledge
20	Define time cycle adjustment.	February 2016	Knowledge
21	Define maintenance schedule.	February 2016	Knowledge
22	Define cleaning frequency.	August 2016	Knowledge
23	Define roller cleaning.	August 2016	Knowledge
24	Define feed system maintenance.	February 2017	Knowledge
25	Define temperature effect.	February 2017	Knowledge
26	Define fixed cycle duration.	February 2018	Knowledge
27	Define variable cycle duration.	February 2018	Knowledge
28	Define processor care.	August 2018	Knowledge
29	Define cleaning solution.	February 2019	Knowledge
30	Define maintenance check.	February 2019	Knowledge
31	Define roller transport speed.	August 2019	Knowledge
32	Define feed system design.	August 2019	Knowledge
33	Define transport time impact.	February 2020	Knowledge
34	Define temperature regulation.	February 2020	Knowledge
35	Define cleaning technique.	March 2021	Knowledge
36	Define maintenance routine.	March 2021	Knowledge
37	Define roller function.	April 2022	Knowledge
38	Define feed system efficiency.	April 2022	Knowledge
39	Define time cycle role.	November 2022	Knowledge
40	Define cleaning process.	November 2022	Knowledge

S.No	Question	Reference (Exam Year)	Bloom's Taxonomy
41	Define processor maintenance.	April 2023	Knowledge
42	Define roller durability.	April 2023	Knowledge
43	Define feed system reliability.	April 2024	Knowledge
44	Define temperature stability.	April 2024	Knowledge
45	Define cleaning agent.	August 2011	Knowledge
46	Define maintenance log.	February 2012	Knowledge
47	Define roller alignment.	August 2012	Knowledge
48	Define feed system calibration.	February 2013	Knowledge
49	Define transport accuracy.	August 2013	Knowledge
50	Define time cycle precision.	February 2014	Knowledge
51	Define temperature sensor.	August 2014	Knowledge
52	Define cleaning schedule.	February 2015	Knowledge
53	Define maintenance kit.	August 2015	Knowledge
54	Define roller replacement.	February 2016	Knowledge
55	Define feed system repair.	August 2016	Knowledge
56	Define transport maintenance.	February 2017	Knowledge
57	Define temperature adjustment.	February 2018	Knowledge
58	Define cleaning tool.	August 2018	Knowledge
59	Define maintenance training.	February 2019	Knowledge
60	Define roller lubrication.	August 2019	Knowledge
61	Define feed system check.	February 2020	Knowledge
62	Define transport inspection.	March 2021	Knowledge
63	Define time cycle test.	April 2022	Knowledge
64	Define temperature monitoring.	November 2022	Knowledge
65	Define cleaning validation.	April 2023	Knowledge
66	Define maintenance protocol.	April 2024	Knowledge
67	Define processor downtime.	August 2011	Knowledge
68	Define roller wear.	February 2012	Knowledge

S.No	Question	Reference (Exam Year)	Bloom's Taxonomy
69	Define feed system wear.	August 2012	Knowledge
70	Define transport delay.	February 2013	Knowledge
71	Define time cycle error.	August 2013	Knowledge
72	Define temperature fluctuation.	February 2014	Knowledge
73	Define cleaning residue.	August 2014	Knowledge
74	Define maintenance cost.	February 2015	Knowledge
75	Define roller damage.	August 2015	Knowledge
76	Define feed system blockage.	February 2016	Knowledge
77	Define transport jam.	August 2016	Knowledge
78	Define time cycle failure.	February 2017	Knowledge
79	Define temperature drift.	February 2018	Knowledge
80	Define cleaning efficiency.	August 2018	Knowledge
81	Define maintenance frequency.	February 2019	Knowledge
82	Define roller tension.	August 2019	Knowledge
83	Define feed system tension.	February 2020	Knowledge
84	Define transport speed.	March 2021	Knowledge
85	Define time cycle duration.	April 2022	Knowledge
86	Define temperature range.	November 2022	Knowledge
87	Define cleaning standard.	April 2023	Knowledge
88	Define maintenance plan.	April 2024	Knowledge
89	Define processor reliability.	August 2011	Knowledge
90	Define roller life.	February 2012	Knowledge
91	Define feed system life.	August 2012	Knowledge
92	Define transport life.	February 2013	Knowledge
93	Define time cycle life.	August 2013	Knowledge
94	Define temperature life.	February 2014	Knowledge
95	Define cleaning life.	August 2014	Knowledge
96	Define maintenance life.	February 2015	Knowledge

S.No	Question	Reference (Exam Year)	Bloom's Taxonomy
97	Define processor upgrade.	August 2015	Knowledge
98	Define roller upgrade.	February 2016	Knowledge
99	Define feed system upgrade.	August 2016	Knowledge
100	Define transport upgrade.	February 2017	Knowledge