801847- X-RAY FLIM IMAGE PROCESSING TECHNIQUES
UNIT 7- RADIOGRAPHIC ILLUMINATORS

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 the function of radiographic illuminators, including viewing conditions, visual acuity, and resolution requirements.	August 2011	Analysis
2	Describe the design and operation of radiographic illuminators, focusing on their role in optimizing visual acuity and resolution.	February 2012	Understanding
3	Discuss the importance of viewing conditions in radiographic illuminators, including their impact on visual acuity and image resolution.	August 2012	Analysis
4	Explain the construction and functionality of radiographic illuminators, emphasizing the factors affecting visual acuity and resolution.	February 2013	Analysis
5	Describe the role of radiographic illuminators in medical imaging, including optimal viewing conditions and their effect on resolution.	August 2013	Understanding
6	Elaborate on the principles of radiographic illuminators, focusing on viewing conditions, visual acuity enhancement, and resolution quality.	February 2014	Analysis
7	Discuss the technical aspects of radiographic illuminators, including their influence on viewing conditions and the measurement of visual acuity and resolution.	August 2014	Analysis
8	Explain the setup and use of radiographic illuminators, detailing how viewing conditions affect visual acuity and image resolution.	February 2015	Understanding
9	Describe the features of radiographic illuminators that enhance visual acuity and resolution, including specific viewing condition requirements.	August 2015	Analysis
10	Discuss the application of radiographic illuminators in radiology, focusing on viewing conditions, visual acuity, and resolution standards.	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 radiographic illuminators.	August 2011	Understanding
2	Describe viewing conditions for illuminators.	August 2011	Knowledge

S.No	Question	Reference (Exam Year)	Bloom's Taxonomy
3	What is visual acuity? Explain its role.	August 2011	Understanding
4	Discuss resolution in radiographic viewing.	February 2012	Knowledge
5	Explain the design of illuminators.	February 2012	Understanding
6	Describe optimal viewing conditions.	February 2012	Understanding
7	Explain the impact of lighting on acuity.	August 2012	Understanding
8	Discuss resolution enhancement techniques.	August 2012	Analysis
9	What are viewing condition standards?	February 2013	Knowledge
10	Explain visual acuity measurement.	February 2013	Understanding
11	Describe resolution factors.	August 2013	Knowledge
12	Explain illuminator brightness control.	August 2013	Understanding
13	Discuss viewing distance effects.	February 2014	Analysis
14	What is the role of contrast in acuity?	February 2014	Understanding
15	Describe resolution testing methods.	August 2014	Knowledge
16	Explain illuminator maintenance.	August 2014	Understanding
17	Discuss lighting uniformity.	February 2015	Knowledge
18	Explain visual acuity improvement.	February 2015	Understanding
19	Describe resolution limits.	August 2015	Understanding
20	Explain viewing angle effects.	August 2015	Understanding
21	Discuss illuminator calibration.	February 2016	Knowledge
22	Explain acuity in low light.	February 2016	Understanding
23	Describe resolution standards.	August 2016	Knowledge
24	Explain viewing condition adjustments.	February 2017	Understanding
25	Discuss illuminator types.	February 2018	Analysis
26	Explain visual acuity training.	August 2018	Understanding
27	Describe resolution optimization.	February 2019	Knowledge
28	Explain illuminator placement.	August 2019	Understanding
29	Discuss viewing environment control.	February 2020	Analysis
30	Explain acuity testing procedures.	March 2021	Understanding
31	Describe resolution measurement tools.	April 2022	Knowledge
32	Explain illuminator light source.	November 2022	Understanding
33	Discuss viewing condition effects.	April 2023	Analysis

S.No	Question	Reference (Exam Year)	Bloom's Taxonomy
34	Explain resolution enhancement tech.	April 2024	Understanding
35	Describe illuminator durability.	August 2011	Knowledge
36	Explain acuity variation factors.	February 2012	Understanding
37	Discuss resolution consistency.	August 2012	Analysis
38	Explain viewing condition setup.	February 2013	Understanding
39	Describe illuminator filters.	August 2013	Knowledge
40	Explain acuity under stress.	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 radiographic illuminators.	August 2011	Knowledge
2	Define viewing conditions.	August 2011	Knowledge
3	Define visual acuity.	August 2011	Knowledge
4	Define resolution.	February 2012	Knowledge
5	Define illuminator design.	February 2012	Knowledge
6	Define optimal lighting.	August 2012	Knowledge
7	Define viewing distance.	August 2012	Knowledge
8	Define visual acuity test.	February 2013	Knowledge
9	Define resolution limit.	February 2013	Knowledge
10	Define illuminator brightness.	August 2013	Knowledge
11	Define viewing angle.	August 2013	Knowledge
12	Define acuity enhancement.	February 2014	Knowledge
13	Define resolution standard.	February 2014	Knowledge
14	Define illuminator uniformity.	August 2014	Knowledge
15	Define viewing environment.	August 2014	Knowledge
16	Define acuity measurement.	February 2015	Knowledge
17	Define resolution factor.	February 2015	Knowledge
18	Define illuminator calibration.	August 2015	Knowledge
19	Define viewing setup.	August 2015	Knowledge
20	Define acuity improvement.	February 2016	Knowledge
21	Define resolution tool.	February 2016	Knowledge
22	Define illuminator type.	August 2016	Knowledge
23	Define viewing condition.	August 2016	Knowledge
24	Define acuity training.	February 2017	Knowledge
25	Define resolution test.	February 2017	Knowledge
26	Define illuminator maintenance.	February 2018	Knowledge

S.No	Question	Reference (Exam Year)	Bloom's Taxonomy
27	Define viewing adjustment.	February 2018	Knowledge
28	Define acuity limit.	August 2018	Knowledge
29	Define resolution quality.	February 2019	Knowledge
30	Define illuminator placement.	February 2019	Knowledge
31	Define viewing control.	August 2019	Knowledge
32	Define acuity variation.	August 2019	Knowledge
33	Define resolution consistency.	February 2020	Knowledge
34	Define illuminator filter.	February 2020	Knowledge
35	Define viewing standard.	March 2021	Knowledge
36	Define acuity under light.	March 2021	Knowledge
37	Define resolution measure.	April 2022	Knowledge
38	Define illuminator source.	April 2022	Knowledge
39	Define viewing effect.	November 2022	Knowledge
40	Define acuity tech.	November 2022	Knowledge
41	Define resolution tech.	April 2023	Knowledge
42	Define illuminator durability.	April 2023	Knowledge
43	Define viewing optimization.	April 2024	Knowledge
44	Define acuity optimization.	April 2024	Knowledge
45	Define resolution device.	August 2011	Knowledge
46	Define illuminator lens.	February 2012	Knowledge
47	Define viewing light.	August 2012	Knowledge
48	Define acuity scale.	February 2013	Knowledge
49	Define resolution scale.	August 2013	Knowledge
50	Define illuminator adjustment.	February 2014	Knowledge
51	Define viewing comfort.	August 2014	Knowledge
52	Define acuity comfort.	February 2015	Knowledge
53	Define resolution comfort.	August 2015	Knowledge
54	Define illuminator test.	February 2016	Knowledge
55	Define viewing test.	August 2016	Knowledge
56	Define acuity test tool.	February 2017	Knowledge
57	Define resolution test tool.	February 2018	Knowledge
58	Define illuminator service.	August 2018	Knowledge
59	Define viewing service.	February 2019	Knowledge
60	Define acuity service.	August 2019	Knowledge
61	Define resolution service.	February 2020	Knowledge
62	Define illuminator upgrade.	March 2021	Knowledge
63	Define viewing upgrade.	April 2022	Knowledge
64	Define acuity upgrade.	November 2022	Knowledge
65	Define resolution upgrade.	April 2023	Knowledge

S.No	Question	Reference (Exam Year)	Bloom's Taxonomy
66	Define illuminator software.	April 2024	Knowledge
67	Define viewing software.	August 2011	Knowledge
68	Define acuity software.	February 2012	Knowledge
69	Define resolution software.	August 2012	Knowledge
70	Define illuminator hardware.	February 2013	Knowledge
71	Define viewing hardware.	August 2013	Knowledge
72	Define acuity hardware.	February 2014	Knowledge
73	Define resolution hardware.	August 2014	Knowledge
74	Define illuminator failure.	February 2015	Knowledge
75	Define viewing failure.	August 2015	Knowledge
76	Define acuity failure.	February 2016	Knowledge
77	Define resolution failure.	August 2016	Knowledge
78	Define illuminator repair.	February 2017	Knowledge
79	Define viewing repair.	February 2018	Knowledge
80	Define acuity repair.	August 2018	Knowledge
81	Define resolution repair.	February 2019	Knowledge
82	Define illuminator life.	August 2019	Knowledge
83	Define viewing life.	February 2020	Knowledge
84	Define acuity life.	March 2021	Knowledge
85	Define resolution life.	April 2022	Knowledge
86	Define illuminator cost.	November 2022	Knowledge
87	Define viewing cost.	April 2023	Knowledge
88	Define acuity cost.	April 2024	Knowledge
89	Define resolution cost.	August 2011	Knowledge
90	Define illuminator efficiency.	February 2012	Knowledge
91	Define viewing efficiency.	August 2012	Knowledge
92	Define acuity efficiency.	February 2013	Knowledge
93	Define resolution efficiency.	August 2013	Knowledge
94	Define illuminator quality.	February 2014	Knowledge
95	Define viewing quality.	August 2014	Knowledge
96	Define acuity quality.	February 2015	Knowledge
97	Define resolution quality.	August 2015	Knowledge
98	Define illuminator standard.	February 2016	Knowledge
99	Define viewing standard.	August 2016	Knowledge
100	Define acuity standard.	February 2017	Knowledge