

MANIPAL ACADEMY OF HIGHER EDUCATION**FOURTH SEMESTER M.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2018****SUBJECT: MIT 401: ADVANCED TECHNIQUES AND INSTRUMENTATION OF MRI
(2015 SCHEME)**

Tuesday, June 12, 2018

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

✍ **Draw suitable diagrams wherever required.**

✍ **Major question.**

1. Explain flow phenomena and their compensation techniques.

(20 marks)

2. **Short answers:**

2A. Describe T1, T2 and proton density weighting and contrast.

2B. Explain different options for K space filling in short.

2C. Write a note on spatial resolution in MRI.

2D. Write a note on image weighting and significance of conventional inversion recovery.

2E. Write a note on balanced gradient echo.

2F. Write a note on cardiac gating.

(10 marks × 6 = 60 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
FOURTH SEMESTER M.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2018
SUBJECT: MIT 402: INTERVENTIONAL RADIOLOGY TECHNIQUES
(2015 SCHEME)

Thursday, June 14, 2018

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

☞ **Answer ALL the questions.**

☞ **Major question:**

1. Briefly explain the Crash Cart-Emergency drugs in angiography.

(20 marks)

2. **Write short notes on:**

2A. Catheters

2B. Principles of 3D Rotational Angiography

2C. Coronary Angiography

2D. Protocol for Renal Angiography

2E. Recent advancements in dose reduction techniques in Angiography by top vendors

2F. RF Ablation and Image Guided Nerve Blocks

(10 marks × 6 = 60 marks)



Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION
FOURTH SEMESTER M.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2018
SUBJECT: MIT 403: MANAGEMENT OF HEALTHCARE ORGANIZATIONS
(2015 SCHEME)

Monday, June 18, 2018

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

Answer ALL the questions.

Major question:

1. Define Leadership. Outline the difference between Leadership and management. Share one experience of your in which you exhibited leadership role.

(3+10+7 = 20 marks)

Write short notes on:

- 2A. How can you adopt the 'theories of motivation' in day to day functioning of the industry?
2B. What is ABC analysis? Explain the steps of ABC analysis.
2C. What is Health economics? How is it useful to the administrator?
2D. Discuss the steps in implementation of a Quality Management System.
2E. What is a Hospital Blood Bank? Outline the functions of the Blood bank.
2F. Classify Outpatients. Outline come of the common problems in OPD. How will you overcome them?

(10 marks × 6 = 60 marks)

