MANIPAL UNIVERSITY

DIPLOMA IN RADIO-DIAGNOSIS (D.M.R.D.) EXAMINATION – APRIL 2008

SUBJECT: PAPER I: BASIC SCIENCES

Tuesday, April 01, 2008

Time: 3 Hrs.   Max. Marks: 100

✍ **Answer ALL the questions.**

1. Write in detail about the techniques, indications and contra indications of double contrast examination of stomach and duodenum and compare it with endoscopic examination.

(34 marks)

2. Write short notes:

2A. Ultrasound transducers.

2B. Rectification.

2C. Transcranial sonography.

2D. Auto transformer.

2E. Paramagnetic contrast media.

2F. Describe the cross sectional details of conventional X-ray film and that of a one sided coated imaging film.

(11×6 = 66 marks)

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SUBJECT: PAPER II: GIT, GUT, CVS

Wednesday, April 02, 2008

Time: 3 Hrs.   Max. Marks: 100

✍ **Answer ALL the questions.**

1. Enumerate various imaging modalities used for evaluation of internal carotid artery stenosis and discuss merits and demerits of each of them.

(34 marks)

2. Write short notes on:

2A. Choledochal cyst.

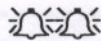2B. Imaging of acute pancreatitis.

2C. Gastro oesophageal reflux.

2D. Merits and demerits of captopril renogram in renovascular hypertension.

2E. Renal angiography finding in polyarteritis nodosa.

2F. Polycystic ovaries.

(11×6 = 66 marks)

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SUBJECT: PAPER III: RESPIRATORY SYSTEM, BONES AND CNS

Thursday, April 03, 2008

Time: 3 Hrs.   Max. Marks: 100

✍ **Answer ALL the questions.**

1. Discuss the anatomy of pharynx and larynx.

                                                                                  (34 marks)

2. Write short notes on:

2A. Causes and differential diagnosis of absorption of tips of terminal phalanges.

2B. Describe types of periosteal elevations and differentiating features.

2C. Enchondroma.

2D. Struge weber syndrome.

2E. Dissection of carotid arteries.

2F. Alexander's disease.

                                                                     (11×6 = 66 marks)

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