

Roll no. ....

P-2672

**M.D. EXAMINATION, APRIL, 2008**

**M.D. – ANATOMY**

**(Paper - I)**

**(Gross & Neuro-anatomy)**

Time : 3 hours

Maximum Marks – 100

**Note :** Attempt all questions.

1. Describe components, connections, functions and applied anatomy of limbic system of brain. 25 marks
  2. Write short notes on : 25 marks
    - (a) Subhepatic peritoneal spaces 13 marks
    - (b) Vascular segments of kidney 12 marks
  3. Write short notes on : 8 marks
    - (a) Palmar spaces 13 marks
    - (b) Bursae around knee joint 12 marks
  4. Write short notes on : 8 marks
    - (a) Muscles of soft palate 9 marks
    - (b) Subclavian steel syndrome 8 marks
    - (c) Submandibular ganglion 8 marks
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Roll no. ....

P-2673

**M.D. EXAMINATION, APRIL, 2008**

**M.D. – ANATOMY**

**(Paper - II)**

**(Embryology, Histology, Evolution and Genetics)**

Time : 3 hours

Maximum Marks – 100

**Note :** Attempt all questions.

1. Describe in detail about the development of right atrium of heart. 25 marks
2. Write an essay on autosomal recessive disorders in human. 25 marks
3. Give an account of Junctional complex of cell. 25 marks
4. Write short notes on :
  - (a) Neural crest cells 9 marks
  - (b) Mitochondria 8 marks
  - (c) Morphology of styloid process 8 marks

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Roll no. ....

P-2674

**M.D. EXAMINATION, APRIL, 2008**

**M.D. – ANATOMY**

**(Paper - III)**

**(Applied Anatomy and Recent advances)**

Time : 3 hours

Maximum Marks – 100

**Note :** Attempt all questions.

1. Write in detail about :
  - (a) Lumber puncture 10 marks
  - (b) Epithelial repair 10 marks
  - (c) Hepatic segmentation and its applied importance 15 marks
2. What are stem cells ? Give types, properties and how they help in cure of diseases? 25 marks
3. Write a note on :
  - (a) Contrast enhanced C.T. scan 10 marks
  - (b) Handling with HIV infected dead bodies 10 marks
4. Give details of nerve injuries of lower limb. 20 marks

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**M. D. EXAMINATION, April/May, 2009**

**ANATOMY**

**Paper First**

**(Gross and Applied Anatomy)**

*Time : Three Hours ]*

*[ Maximum Marks : 100*

**Note :** Attempt all questions. Give your answers with suitable diagrams.

1. Describe masticatory apparatus and mastication. 25
2. Describe Ziguinal canal with a note on various inguinal Hernias. 25
3. Give in detail about the following :
  - (i) Arches of foot 8
  - (ii) Supination and Pronation 8
  - (iii) Lymphatic drainage of Breast 9
4. Write about the following :
  - (i) Blood supply and applied importance of Thyroid gland 8
  - (ii) Supports of Uterus 9
  - (iii) Broncho-Pulmonary segment 8

Roll No. ....

P – 02

**M. D. EXAMINATION, April/May, 2009**

ANATOMY

Paper Second

**(Neuro Anatomy and Embryology)**

*Time : Three Hours ]*

*[ Maximum Marks : 100*

**Note :** Attempt all questions. Support your answers with diagrams.

1. Give a detailed account of Rotation of Gut. Add a note on its derangements. 25
2. Give in detailed about the following :
  - (i) Development of Interventricular septum 8
  - (ii) Nervous control of urinary bladder 9
  - (iii) Neural crest 8
3. Describe Limbic system. 25
4. Write about the following :
  - (i) Brain death 8
  - (ii) Neuclei of 3rd cranial nerve 8
  - (iii) Basal Ganglian 9

**M. D. EXAMINATION, April/May, 2009**

**ANATOMY**

**Paper Third**

**(Histology, Histological Techniques Genetics, History of  
Anatomy and Evolution)**

*Time : Three Hours ]*

*[ Maximum Marks : 100*

**Note :** Attempt all questions. Draw suitable diagrams to illustrate your answers.

1. Describe the microanatomy of ovary. Add a note on its age changes. 20
2. Write short notes on the following : 10 each
  - (a) Ultrastructure of nerve cell
  - (b) Freeze-fracture and etching techniques
  - (c) Staining for myeline sheath
3. Write an account of the following : 10 each
  - (a) Sex linked inheritance
  - (b) Banding technique of chromosomes
  - (c) DNA typing
4. Write detailed notes on the following : 10 each
  - (a) Father of Anatomy
  - (b) Evolution of cardio-vascular system

Roll No. ....

**P – 04**

**M. D. EXAMINATION, April/May, 2009**

**ANATOMY**

**Paper Fourth**

**(Recent Advances)**

*Time : Three Hours ]*

*[ Maximum Marks : 100*

**Note :** Attempt all questions. Elaborate your answer with suitable diagrams wherever necessary.

1. Give details of Segmental Anatomy of Liver. Add a note on liver transplant. 25
2. Give details about handling of a dead body infected with HIV and how you will preserve it ? 20
3. Write about Genetic Counselling. 25
4. Write in brief about the following : 10 each
  - (a) Safe Sex
  - (b) Biomechanics in thoracolumber spine
  - (c) Pluripotent stem cells

**POST GRADUATE DEGREE EXAMINATION, APRIL- 2011**

**MD ANATOMY  
(PAPER ONE)**

**GROSS ANATOMY**

[Time allotted: Three hours]

[Max Marks: 100]

**Note:** Attempt all questions  
Illustrate with suitable diagnosis.

- Q. 1. Describe gross anatomy of Liver including it's relations and Hepatic segments. (20)
- Q. 2. Write an essay on Arches of foot and add a note on it's functional significance and applied anatomy. (20)
- Q. 3. Write short notes on: (3 x 10 = 30)
- a. Extra-ocular muscles. (20)
  - b. Cervical part of sympathetic chain. (3 x 10 = 30)
  - c. Mechanism of Lubrication of Joints. (20)
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Bell's Palsy. (20)
  - b. Prostate gland. (5 x 6 = 30)
  - c. Deep cervical Lymphnodes.
  - d. Internal capsule and it's Blood supply.
  - e. Fascial spaces of hand.



## POST GRADUATE DEGREE EXAMINATION, APRIL- 2011

MD ANATOMY  
(PAPER TWO)

## HISTOLOGY NEUROANATOMY AND EMBRYOLOGY ANATOMY

[Time allotted: Three hours]

[Max Marks: 100]

**Note:** Attempt all questions

- Q. 1. Describe cerebral cortex under following heads: (20)
- Functional areas (20)
  - Arterial supply and related clinical aspect (3 x 10 = 30)
  - Microscopic structure (20)
- Q. 2. Enumerate the derivatives of brachial apparatus. Discuss various associated anomalies. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- Development of kidney & its molecular regulation. (5 x 6 = 30)
  - Functional components of cranial nerve nuclei. Its location and function.
  - Draw a labeled diagram of TS of mid brain at inferior colliculus. Add a note on parkinsonism.
- Q. 4. Write notes on: (5 x 6 = 30)
- Neural tube defects
  - In vitre fertilization
  - II week of development of Embryo
  - Foetal therapy
  - Lumber puncture

**POST GRADUATE DEGREE EXAMINATION, APRIL- 2011**

**MD ANATOMY  
(PAPER THREE)**

**HISTOLOGY, GENETICS, EVOLUTION & HISTORY OF ANATOMY**

[Time allotted: Three hours]

[Max Marks: 100]

**Note:** Attempt all questions

- Q. 1. Describe Microstructure of different organs of endocrine system. (20)
- Q. 2. Describe evolution of hand. (20)
- Q. 3. Write short notes on: (3 x 10 = 30)
- Various methods used in embalming. (20)
  - FISH Technology (3 x 10 = 30)
  - Stain for myelin sheath
- Q. 4. Write short notes on: (5 x 6 = 30)
- Structural aberration of chromosomes
  - Evolution of cerebellum (5 x 6 = 30)
  - Microstructure of ovary
  - Henry Gray
  - Preparation of paraffin block

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**POST GRADUATE DEGREE EXAMINATION, APRIL- 2011****MD ANATOMY  
(PAPER FOUR)****APPLIED ANATOMY & RECENT ADVANCES**

- [Time allotted: Three hours]

[Max Marks: 100]

**Note:** Attempt all questions

- Q. 1. Describe the anatomy of lumbar vertebral column. Discuss the anatomical basis of low back pain. (20)
- Q. 2. Describe movements of knee joint. Discuss the anatomy of structures liable to injury within this joint. (20)
- Q. 3. Write short notes on: (3 x 10 = 30)
- Pouch of Douglas
  - Fibro muscular skeleton of Heart
  - Porto- Caval anastomoses
- Q. 4. Write short notes on: (5 x 6 = 30)
- Horner's Syndrome
  - Down's Syndrome
  - Cleft Lip
  - Pluripotent cells
  - Claw hand

**POST GRADUATE EXAMINATION, APRIL- 2012**

**MD ANATOMY  
(PAPER ONE)  
GROSS ANATOMY**

[Time allotted: Three hours]

[Max Marks: 100]

**Note:** Attempt all questions  
Illustrate with suitable diagnosis.

- Q. 1.** Describe gross anatomy of Lung. Describe clinical importance of bronchopulmonary segments. (20)
- Q. 2.** Describe ligaments of knee joint. Explain locking and unlocking of knee joint. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Mandibular Nerve
  - b. Intrinsic muscles of larynx
  - c. Blood supply of bone
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Cavernous venous sinus with its applied importance
  - b. Cervix of uterus
  - c. Scalano-vertebral triangle
  - d. Amygdaloid body
  - e. Dorsal digital expansion

**POST GRADUATE EXAMINATION, APRIL- 2012****MD ANATOMY  
(PAPER TWO)****NEURO ANATOMY & EMBRYOLOGY**

[Time allotted: Three hours]

[Max Marks: 100]

**Note:** Attempt all questions  
Illustrate with suitable diagnosis.

- Q. 1.** Describe cerebellum under the following heads: (20)
- Gross Anatomy
  - Nuclei
  - Connections
  - Applied importance
- Q. 2.** Describe infertility under following heads: (20)
- In male and female
  - Causes – developmental and acquired
  - Corrections
- Q. 3.** Describe briefly: (3 x 10 = 30)
- Internal Capsule
  - Limbic System
  - Fallot's Tetralogy
- Q. 4.** Write short notes on: (5 x 6 = 30)
- Choroid plexus
  - Mesonephric duct
  - Rotation of gut
  - Experimental embryology
  - White fibres

**POST GRADUATE EXAMINATION, APRIL- 2012**

**MD ANATOMY  
(PAPER THREE)**

**HISTOLOGY, GENETICS, EVOLUTION & HISTORY**

[Time allotted: Three hours]

[Max Marks: 100]

**Note:** Attempt all questions  
Illustrate with suitable diagnosis.

- Q. 1.** Describe microscopic structures of organs of lymphoid system. (20)
- Q. 2.** Describe evolution of erect posture. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Sex Chromosomal Anatomy
  - b. Evolution of pelvic diaphragm
  - c. Classification of glands
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Juxta glomerular apparatus
  - b. PAS Staining
  - c. Barr body
  - d. Idiogram
  - e. Entero-Chromaffin cell

**POST GRADUATE EXAMINATION, APRIL- 2012**

**MD ANATOMY  
(PAPER FOUR)**

**APPLIED ANATOMY & RECENT ADVANCES**

[Time allotted: Three hours]

[Max Marks: 100]

**Note:** Attempt all questions  
Illustrate with suitable diagnosis.

- Q. 1.** Describe the facial spaces of hand. Write a brief note on the anatomical basis of carpal tunnel syndrome. (20)
- Q. 2.** Describe Porto-Caval anastomosis. Add a detail note on applied importance. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Role of stem cells in current day treatment.
  - b. Blood supply of Heart & Coronary Angiography.
  - c. Referred Pain
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Dust cells
  - b. Birth control in females
  - c. Flat foot
  - d. Shoulder movements
  - e. Brain death

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**POST GRADUATE EXAMINATION, MAY- 2013**

**MD ANATOMY  
(PAPER ONE)**

**GROSS ANATOMY**

[Time allotted: Three hours]

[Max Marks: 100]

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** Describe the blood supply of the heart. Mention various types of anastomosis recorded in these blood vessels. Enumerate their applied importance. (20)

**Q. 2.** Describe the anatomical positions, blood supply, lymphatic drainage and supports of the uterus. Mention its applied importance. (20)

**Q. 3.** Describe briefly: (3 x 10 = 30)  
a. Syndesmosis  
b. Subphrenic spaces  
c. Unpaired dural venous sinuses

**Q. 4.** Write short notes on: (5 x 6 = 30)  
a. Shunt muscles  
b. Circulatory portal systems  
c. Fornix  
d. Medial longitudinal arch of foot  
e. Posterior cord of the brachial plexus

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11  
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5 2



**POST GRADUATE EXAMINATION, MAY- 2013**

**MD ANATOMY  
(PAPER TWO)**

**NEURO ANATOMY & EMBRYOLOGY**

[Time allotted: Three hours]

[Max Marks: 100]

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** Describe Thalamus under the following heads: (20)

- a. Gross Anatomy
- b. Nuclei
- c. Connections
- d. Applied anatomy

**Q. 2.** Describe fetal circulation and changes after birth and related developmental abnormalities. (20)

**Q. 3.** Describe briefly: (3 x 10 = 30)

- a. Referred pain
- b. Medial longitudinal fasciculus
- c. Olivary nucleus

**Q. 4.** Write short notes on: (5 x 6 = 30)

- a. Development of pituitary gland
- b. Development of vagina
- c. Twins
- d. Superior colliculus
- e. Development of cerebellum

**POST GRADUATE EXAMINATION, MAY- 2013**

**MD ANATOMY**

**(PAPER THREE)**

**HISTOLOGY, GENETICS, EVOLUTION & HISTORY**

[Time allotted: Three hours]

[Max Marks: 100]

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** Discuss the microanatomy of the excretory system. (20)

**Q. 2.** Describe the evolution and morphological change of the pelvic floor in humans. (20)

**Q. 3.** Describe briefly: (3 x 10 = 30)

- a. Microanatomy of intrapulmonary part of respiratory tract.
- b. Turner's syndrome
- c. Genetic counseling

**Q. 4.** Write short notes on: (5 x 6 = 30)

- a. Father of modern anatomy
- b. Masson's Trichrome staining
- c. Gene therapy
- d. Liver Acinus
- e. Confocal microscopy

**POST GRADUATE EXAMINATION, MAY- 2013**

**MD ANATOMY  
(PAPER FOUR)**

**APPLIED ANATOMY & RECENT ADVANCES**

[Time allotted: Three hours]

[Max Marks: 100]

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** Describe movements of knee joint. Discuss the anatomy of the structures liable to injury within this joint. (20)

**Q. 2.** Describe the muscles of larynx. Add a note on their nerve supply and applied importance. (20)

**Q. 3.** Describe briefly: (3 x 10 = 30)

- a. Segmental resection with an account on liver transplantation.
- b. Embalming technique and its medico-legal aspect.
- c. Varicocele

**Q. 4.** Write short notes on: (5 x 6 = 30)

- a. Whitlow
- b. Pericardiocentesis
- c. Marginal artery of Drummand
- d. Arches of foot
- e. Klumpke- Dejering paralysis

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14 1/2  
19

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## POST GRADUATE EXAMINATION, MAY - 2016

MD ANATOMY  
(PAPER ONE)

## GROSS ANATOMY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions  
Illustrate with suitable diagrams.

Q. 1. Describe larynx under following heads: (20)

- a. Cartilages   b. Ligaments   c. Muscles   d. Nerve Supply   e. Clinical Anatomy

Q. 2. Describe sites of Porta-caval anastomosis. Add a note on its clinical anatomy. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Lymphatic drainage of the breast  
b. Bronchopulmonary segments of Rt. Lung  
c. Inversion & Eversion of the foot

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Ansa cervicalis  
b. Diagram of T.S. passing through the 4<sup>th</sup> thoracic vertebra  
c. Popliteus muscle  
d. Age changes in prostate  
e. Pulp space

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POST GRADUATE EXAMINATION, MAY - 2016

MD ANATOMY

(PAPER TWO)

NEURO ANATOMY & EMBRYOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

- Q. 1. Describe basal ganglia with connections, functions and applied aspects. (20)
- Q. 2. Describe development of kidney with its congenital anomalies. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- Medial longitudinal fasciculus
  - Lateral medullary syndrome
  - Development of pituitary gland
- Q. 4. Write short notes on: (5 x 6 = 30)
- Implantation
  - Rotation of Gut
  - Fate of sinus venosus
  - Blood brain barrier
  - Spina Bifida

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**POST GRADUATE EXAMINATION, MAY - 2016**

**MD ANATOMY**

**(PAPER THREE)**

**HISTOLOGY, GENETICS, EVOLUTION & HISTORY**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** Describe the microanatomy of liver. Add a note on cirrhosis of liver.

**(20)**

**Q. 2.** Write on evolution of cerebral hemisphere in human beings.

**(20)**

**Q. 3. Describe briefly:**

**(3 x 10 = 30)**

- a. Microanatomy of prostate
- b. Chromosomal aberration
- c. Philadelphia chromosome

**Q. 4. Write short notes on:**

**(5 x 6 = 30)**

- a. Neuroglia
- b. Technique of chromosome preparation
- c. Cat Cry syndrome
- d. Microanatomy of glomerular filtration barrier
- e. Myoepithelial cells

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**POST GRADUATE EXAMINATION, MAY - 2016**

**MD ANATOMY  
(PAPER FOUR)**

**APPLIED ANATOMY & RECENT ADVANCES**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** Educational uses of imaging techniques in anatomy. (20)

**Q. 2.** Recent advances in preservation of human body and remains. (20)

**Q. 3. Describe briefly:** (3 x 10 = 30)

- a. Anatomical basis of facial palsy
- b. Referred pain
- c. Anatomical basis of Fallot's Tetralogy

**Q. 4. Write short notes on:** (5 x 6 = 30)

- a. Embryogenesis of body axis
- b. Anatomical basis of venesection
- c. Anatomy of intra-muscular injection in Gluteal region
- d. Collateral circulation around hip and upper thigh
- e. Anatomy of coughing

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**POST GRADUATE (MD/MS) EXAMINATION, SEPTEMBER/OCTOBER - 2017**

**MD ANATOMY  
(PAPER ONE)**

**GROSS ANATOMY**

**[Time allotted: Three hours]**

**[Max Marks: 100]**

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

**Q. 1.** Name venous sinuses of dura mater. Describe cavernous sinus in detail. **(20)**

**Q. 2.** Define peritoneum. Name peritoneal recesses. Describe lesser sac of peritoneum. **(20)**

**Q. 3. Describe briefly:** **(3 x 10 = 30)**

- a. Brachial plexus
- b. Skeleton of the heart
- c. Arches of foot

**Q. 4. Write short notes on:** **(5 x 6 = 30)**

- a. Classification of joints
- b. Nerve supply of the tongue
- c. Draw & label cross-section at the level of T-04 vertebrae.
- d. First carpo-metacarpal joint
- e. Adductor canal

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## POST GRADUATE (MD/MS) EXAMINATION, SEPTEMBER/OCTOBER - 2017

MD ANATOMY  
(PAPER TWO)

## NEURO ANATOMY &amp; EMBRYOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions  
Illustrate with suitable diagrams.

Q. 1. Describe the development of the CNS. (20)

Q. 2. Describe the facial nerve. Add a note on its applied importance. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Limbic system
- b. Development of inter-ventricular septum
- c. Rotation of mid gut

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Derivatives of bronchial apparatus
- b. Placental barrier
- c. Development of kidney
- d. Nervous control of urinary bladder
- e. Basal ganglion

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POST GRADUATE (MD/MS) EXAMINATION, SEPTEMBER/OCTOBER - 2017

MD ANATOMY  
(PAPER THREE)

HISTOLOGY, GENETICS, EVOLUTION & HISTORY

[Time allotted: Three hours]

[Max Marks: 100]

**Note:** Attempt all questions  
Illustrate with suitable diagrams.

Q. 1. Describe evolution of cardio-vascular system. (20)

Q. 2. Describe the microanatomy of ovary. Add a note on its age changes. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Freeze-fracture and etching techniques
- b. Bending technique of chromosomes
- c. Numerical abnormalities of chromosomes

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Father of anatomy
- b. Fixatives
- c. Microanatomy of prostate
- d. DNA typing
- e. Evolution of thumb

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## POST GRADUATE (MD/MS) EXAMINATION, SEPTEMBER/OCTOBER - 2017

## MD ANATOMY

## (PAPER FOUR)

## APPLIED ANATOMY &amp; RECENT ADVANCES

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions  
Illustrate with suitable diagrams.

Q. 1. Describe newer techniques of embalming & its advantages. (20)

Q. 2. What are newer techniques of teaching Anatomy? Describe EBM (Evidence Based Medicine). (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Mammography v/s Elastography
- b. Plastination
- c. PET (Positron Emission Tomography) MRI

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Applied anatomy of the breast
- b. Surgical anatomy of the great saphenous vein
- c. ERCP
- d. Surrogate mother
- e. Coronary angiography

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