



BRAINWARE UNIVERSITY

Term End Examination 2022 Programme – B.Sc.(MRIT)-2020 Course Name – Cross Sectional Anatomy and Physiology Course Code - BMRIT501 (Semester V)

Full Marks : 60 Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question) 1 x 15=15

Choose the correct alternative from the following:

| 1. (| choose the correct diternative from the following . | | |
|--------|--|---|--|
| (i) | Choose the right answer from the following- Female pelvis consist of | | |
| (ii) | a) Bladder urethra rectum Ovaries Uterus c) Bladder urethra rectum Filopean Tube Choose the right answer from the followingPeritoneum, liv intestines, kidneys, ureters and blood vessels are organs of t | | |
| (iii) | a) Thoraxc) BrainSelect the Full Form for MIP in CT post Processing to view Cr | b) Abdomen d) Mediastinum ross Sectional anatomy | |
| (iv) | a) Maximum Intensity Projectionc) Mini Intensity ProjectionCollect the right answer from following- The ankle joint is fo | b) Minimum Intensity Projectiond) Minus Intensity Projectionrmed of | |
| (v) | a) only Calcanium c) Tarsal bones Which of the following option relates with the Inferior vener | b) Long Bones d) Carpal bones cava | |
| (vi) | a) Vein c) Nerve Which of the following option relates with the anterior tebia | b) artery d) tendon al artery | |
| (vii) | a) arm c) leg Choose the correct answer that frontal sinus is located | b) Neck d) Foot | |
| (viii) | a) frontal c) occipital Which of the following option relates with straight sinus | b) Temporal d) Parietal | |
| (ix) | a) Leg c) Neck The Wrist joint is establish by | b) brain d) spine | |
| (x) | a) Tarsal bones c) Short Bones Select the right appearance of Hemorrhage in ct image | b) Carpal bones d) long Bones | |
| (xi) | a) Bright (Hyperdense)c) Dark (Hypodense)Select the right answer from the following options that arter | b) Grey d) shades of grey rial supply to the brain is often called | |
| (xii) | a) Carotid artery c) Circle of willis Choose the right answer from the following options: Styloid | b) Vessesls of arteryd) Brain arteryProcess are part of the | |
| (xiii) | a) Skull bonec) KneeSelect the plane of the body that divides it into dorsal and volume | b) Spine d) ankle entral regions? | |
| | a) Transverse | b) Axial | |

c) Coronal

a) cephalic

(xiv) The directional term "superior" in anatomy means which of the following name is correct?

d) Saggital

b) ventral

c) Caudal d) Dorsal (xv) Select the correct structure separates the thoracic cavity from the abdominal cavity? a) The mediastinum b) The diaphragm c) The peritoneum d) The pylorus Group-B

| (Short Answer Type Questions) | 3 x 5=15 |
|--|----------|
| 2. Write Hounsfield units of air, fat, pure water, CSF, white matter, gray matter and blood. | (3) |
| 3. Differentiate T1 and T2 axial brain MRI | (3) |
| 4. Explain Subdural hematoma and it's radiological appearance in NCCT brain | (3) |
| 5. Write about the arterial system of head and neck with proper diagram. | (3) |
| 6. Explain the Anatomy of thorax in any one axial plane image | (3) |
| OR | |
| Explain subarachnoid hemorrhage and it's radiological appearance in NCCT brain | (3) |
| Group-C | |

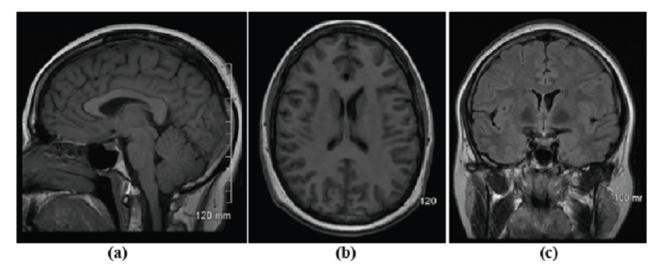
(Long Answer Type Questions)

5 x 6=30

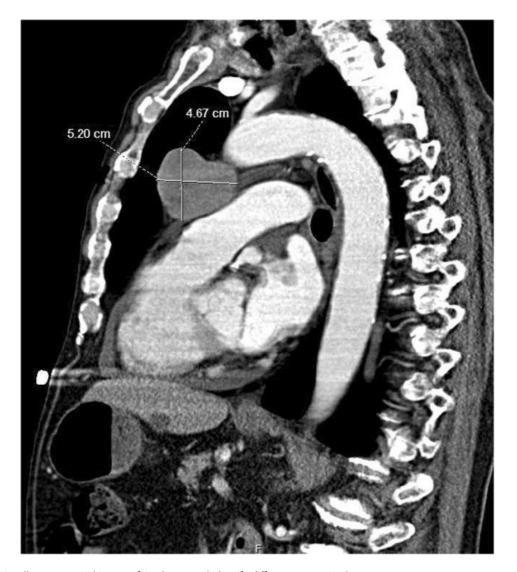
(5)

(5)

7. Identify three different radiological planes from the below mentioned images and explain about it.



8. Identify the cross sectional anatomy from the bellow mentioned sagittal image and explain about it.



- $9. \quad Illustrate \ a \ axial \ image \ of \ CT \ thorax \ and \ identify \ different \ anatomical \ structure.$
- 10. Explain stroke and explain the importance of diffusion imaging in brain MRI
- 11. Compare between male and female pelvis with proper diagram.
- 12. Explain anatomy of pneumothorax CT

OR

(5) (5)

(5)

(5)

(5)

Explain CT cross sectional anatomy of orbit
