

Advanced Anatomical History and Metrics

Anatomy · Answer Key · 25 Questions

1. In which year did Andreas Vesalius publish his seminal anatomical work 'De humani corporis fabrica'?

- A) 1543**
- B) 1555
- C) 1539
- D) 1562

2. How many pairs of cranial nerves are traditionally recognized as emerging directly from the brain and brainstem?

- A) 8
- B) 10
- C) 12**
- D) 14

3. What is the approximate number of alveoli present in an average adult human lung?

- A) 100 million
- B) 300 million**
- C) 500 million
- D) 700 million

4. The 'Circle of Willis' is formed by the anastomosis of how many primary arteries at the base of the brain?

- A) 3
- B) 4**
- C) 5
- D) 6

5. Who is credited with the 1628 publication of 'Exercitatio Anatomica de Motu Cordis et Sanguinis in Animalibus', describing systemic circulation?

- A) William Harvey**
- B) Marcello Malpighi
- C) Thomas Willis
- D) Andreas Vesalius

6. What is the total number of bones typically found in the adult human carpal region (the wrist)?

- A) 6
- B) 8**
- C) 10
- D) 12

7. The 'Triangle of Calot' is a surgical landmark defined by which three structures?

- A) Cystic duct, common hepatic duct, cystic artery**
- B) Common bile duct, portal vein, hepatic artery
- C) Cystic artery, gallbladder, liver edge
- D) Cystic duct, duodenum, hepatic artery

8. In 1661, who provided the first microscopic observation of capillaries, confirming the bridge between arteries and veins?

- A) Robert Hooke
- B) Antonie van Leeuwenhoek
- C) Marcello Malpighi**
- D) Jan Swammerdam

9. How many lumbar vertebrae are present in the standard human vertebral column?

- A) 4
- B) 5**
- C) 6
- D) 7

10. The 'Foramen of Monro' (interventricular foramen) connects which two brain ventricles?

- A) Third and fourth
- B) Lateral and third**
- C) Lateral and fourth
- D) Two lateral ventricles

11. What is the approximate pH range of human blood in a healthy adult?

- A) 7.10-7.25
- B) 7.35-7.45**
- C) 7.55-7.65
- D) 7.70-7.80

12. How many primary deciduous (baby) teeth does a standard human child possess?

- A) 16
- B) 20**
- C) 24
- D) 28

13. Which muscle is known as the 'tailor's muscle' and is the longest in the human body?

- A) Rectus femoris
- B) Sartorius**
- C) Gracilis
- D) Semitendinosus

14. How many pairs of ribs are classified as 'true' ribs (vertebrosternal)?

- A) 5
- B) 7**
- C) 9
- D) 12

15. In the 1858 first edition of 'Gray's Anatomy', how many illustrations were provided by Henry Vandyke Carter?

- A) 263
- B) 363**
- C) 463
- D) 563

16. The human heart's electrical conduction system begins at the Sinoatrial (SA) node; what is its typical resting discharge rate in beats per minute?

- A) 40-60
- B) 60-100**
- C) 100-120
- D) 120-140

17. What is the approximate total surface area of the human skin in an average adult?

- A) 1.0 square meter
- B) 1.5 square meters
- C) 2.0 square meters**
- D) 2.5 square meters

18. How many distinct layers (strata) are found in the thick skin of the palms and soles?

- A) 3
- B) 4
- C) 5**
- D) 6

19. Who described the eponymous 'Islets of Langerhans' in the pancreas in 1869?

- A) Paul Langerhans**
- B) Robert Koch
- C) Rudolf Virchow
- D) Emil von Behring

20. What is the normal number of phalanges in a single human hand (including thumb)?

- A) 12
- B) 14**
- C) 16
- D) 18

21. Which cranial nerve is responsible for the motor innervation of the lateral rectus muscle of the eye?

- A) III
- B) IV
- C) V
- D) VI**

22. Approximately how many milliliters of cerebrospinal fluid (CSF) are produced by the choroid plexus daily?

- A) 200 ml
- B) 500 ml**
- C) 800 ml
- D) 1000 ml

23. The human skull consists of how many individual bones (including the middle ear ossicles)?

- A) 18
- B) 22
- C) 28**
- D) 32

24. What percentage of the human body mass is typically composed of water in an adult male?

A) 40-50%

B) 50-60%

C) 60-70%

D) 70-80%

25. In what year was the first successful human heart transplant performed by Christiaan Barnard?

A) 1965

B) 1967

C) 1969

D) 1971