

# MPSC Meghalaya LDA: Biology High-Yield Guide (50 Solved High-Probability MCQs)

Meghalaya Exam Science Series

## Part I: High-Yield Biology Notes

---

- **Father of Biology/Zoology:** Aristotle.
- **Father of Botany:** Theophrastus.
- **Cell Organelles:** Mitochondria (Powerhouse), Ribosome (Protein factory), Lysosome (Suicide bags).
- **Blood:** pH is 7.4. Lifespan of RBC is 120 days.
- **Bones:** 206 in adults, 300 in newborns. Femur (longest), Stapes (smallest).

## Part II: Practice MCQs

---

1. The term 'Biology' was coined by Lamarck and Treviranus in: **[Ans: (b) 1801]**  
(a) 1750  
(b) 1801  
(c) 1850  
(d) 1901
2. Study of the internal structure of organisms is: **[Ans: (b) Anatomy]**  
(a) Morphology  
(b) Anatomy  
(c) Histology  
(d) Cytology
3. Rearing of honey bees is called: **[Ans: (d) Apiculture]**  
(a) Sericulture  
(b) Horticulture  
(c) Pisciculture  
(d) Apiculture
4. Study of flowers and flowering plants: **[Ans: (c) Anthology]**  
(a) Agrology  
(b) Pomology  
(c) Anthology  
(d) Bryology
5. 'Arthrology' is the study of: **[Ans: (c) Joints]**  
(a) Blood

- (b) Bones
  - (c) Joints
  - (d) Muscles
6. The study of cancer and tumors: **[Ans: (b) Oncology]**
- (a) Ornithology
  - (b) Oncology
  - (c) Osteology
  - (d) Hematology
7. Who discovered the nucleus of the cell in 1831? **[Ans: (a) Robert Brown]**
- (a) Robert Brown
  - (b) Robert Hooke
  - (c) Schwann
  - (d) Virchow
8. The Powerhouse of the cell is: **[Ans: (b) Mitochondria]**
- (a) Ribosome
  - (b) Mitochondria
  - (c) Lysosome
  - (d) Nucleus
9. Which organelle is known as the 'Suicide Bag'? **[Ans: (c) Lysosome]**
- (a) Golgi Body
  - (b) Centrosome
  - (c) Lysosome
  - (d) Ribosome
10. Protein synthesis occurs in which part of the cell? **[Ans: (a) Ribosome]**
- (a) Ribosome
  - (b) Mitochondria
  - (c) Plastid
  - (d) Vacuole
11. The cell wall of a plant is made of: **[Ans: (c) Cellulose]**
- (a) Chitin
  - (b) Glycogen
  - (c) Cellulose
  - (d) Lipid
12. Smallest cell in the human body: **[Ans: (d) Sperm]**
- (a) Nerve cell
  - (b) Egg cell
  - (c) RBC
  - (d) Sperm

13. Longest cell in the human body: [Ans: (a) Nerve Cell]
- (a) Nerve Cell
  - (b) Muscle Cell
  - (c) Bone Cell
  - (d) Skin Cell
14. Five Kingdom classification was given by: [Ans: (b) R.H. Whittaker]
- (a) Linnaeus
  - (b) R.H. Whittaker
  - (c) Aristotle
  - (d) Bentham
15. Binomial Nomenclature was introduced by: [Ans: (c) Carolus Linnaeus]
- (a) Charles Darwin
  - (b) Mendel
  - (c) Linnaeus
  - (d) Lamarck
16. Study of fungi is known as: [Ans: (b) Mycology]
- (a) Phycology
  - (b) Mycology
  - (c) Virology
  - (d) Bacteriology
17. Study of algae is known as: [Ans: (a) Phycology]
- (a) Phycology
  - (b) Mycology
  - (c) Pomology
  - (d) Dendrology
18. Total number of bones in a human adult: [Ans: (c) 206]
- (a) 300
  - (b) 212
  - (c) 206
  - (d) 208
19. Number of bones in a newborn baby: [Ans: (a) 300]
- (a) 300
  - (b) 206
  - (c) 250
  - (d) 350
20. Largest gland in the human body: [Ans: (b) Liver]
- (a) Pancreas
  - (b) Liver

- (c) Thyroid
  - (d) Salivary
21. Total number of muscles in the human body: **[Ans: (c) 639]**
- (a) 206
  - (b) 500
  - (c) 639
  - (d) 700
22. The 'Master Gland' of the body: **[Ans: (a) Pituitary]**
- (a) Pituitary
  - (b) Thyroid
  - (c) Adrenal
  - (d) Pancreas
23. Universal Donor blood group: **[Ans: (c) O]**
- (a) A
  - (b) B
  - (c) O
  - (d) AB
24. Universal Recipient blood group: **[Ans: (d) AB]**
- (a) A
  - (b) B
  - (c) O
  - (d) AB
25. Average weight of the adult human brain: **[Ans: (b) 1350-1400g]**
- (a) 1000g
  - (b) 1350-1400g
  - (c) 1500g
  - (d) 1200g
26. Lifespan of Red Blood Cells (RBC): **[Ans: (c) 120 days]**
- (a) 60 days
  - (b) 10 days
  - (c) 120 days
  - (d) 150 days
27. Normal blood pressure of a human: **[Ans: (b) 120/80 mmHg]**
- (a) 80/120 mmHg
  - (b) 120/80 mmHg
  - (c) 100/70 mmHg
  - (d) 140/90 mmHg
28. Metal present in Hemoglobin: **[Ans: (b) Iron]**

- (a) Magnesium
  - (b) Iron
  - (c) Copper
  - (d) Zinc
29. Largest part of the human brain: **[Ans: (a) Cerebrum]**
- (a) Cerebrum
  - (b) Cerebellum
  - (c) Thalamus
  - (d) Medulla
30. Emergency hormone is: **[Ans: (c) Adrenaline]**
- (a) Insulin
  - (b) Thyroxine
  - (c) Adrenaline
  - (d) Progesterone
31. Father of Genetics: **[Ans: (c) Gregor Mendel]**
- (a) Charles Darwin
  - (b) T.H. Morgan
  - (c) Gregor Mendel
  - (d) Lamarck
32. Number of pairs of chromosomes in humans: **[Ans: (b) 23]**
- (a) 46
  - (b) 23
  - (c) 22
  - (d) 24
33. Vitamin A deficiency causes: **[Ans: (b) Night Blindness]**
- (a) Scurvy
  - (b) Night Blindness
  - (c) Rickets
  - (d) Anemia
34. Vitamin C is also known as: **[Ans: (c) Ascorbic Acid]**
- (a) Retinol
  - (b) Calciferol
  - (c) Ascorbic Acid
  - (d) Thiamine
35. Rickets is caused by deficiency of: **[Ans: (d) Vitamin D]**
- (a) Vit A
  - (b) Vit B
  - (c) Vit C

(d) Vit D

36. Goitre is caused by deficiency of:

[Ans: (b) Iodine]

- (a) Iron
- (b) Iodine
- (c) Calcium
- (d) Zinc

37. Normal temperature of human body (Celsius):

[Ans: (a) 37°C]

- (a) 37°C
- (b) 98.6°C
- (c) 40°C
- (d) 35°C

38. Largest bone in the human body:

[Ans: (b) Femur]

- (a) Humerus
- (b) Femur
- (c) Tibia
- (d) Radius

39. Smallest bone in the human body:

[Ans: (d) Stapes]

- (a) Incus
- (b) Malleus
- (c) Phalanges
- (d) Stapes

40. Hemoglobin is a:

[Ans: (a) Protein]

- (a) Protein
- (b) Lipid
- (c) Carbohydrate
- (d) Vitamin

41. Human heart has how many chambers?

[Ans: (c) 4]

- (a) 2
- (b) 3
- (c) 4
- (d) 1

42. Bile is stored in which organ?

[Ans: (b) Gall Bladder]

- (a) Liver
- (b) Gall Bladder
- (c) Pancreas
- (d) Spleen

43. Penicillin is obtained from:

[Ans: (c) Fungus]

- (a) Bacteria

- (b) Algae
- (c) Fungus
- (d) Virus

44. Weight of the human kidney is:

[Ans: (b) 150g]

- (a) 100g
- (b) 150g
- (c) 200g
- (d) 250g

45. Length of the small intestine is:

[Ans: (c) 7 meters]

- (a) 1 meter
- (b) 5 meters
- (c) 7 meters
- (d) 10 meters

46. Theory of Natural Selection was given by:

[Ans: (a) Charles Darwin]

- (a) Darwin
- (b) Mendel
- (c) Lamarck
- (d) de Vries

47. Scurvy is caused by deficiency of:

[Ans: (c) Vitamin C]

- (a) Vit B
- (b) Vit A
- (c) Vit C
- (d) Vit K

48. Total number of milk teeth in children:

[Ans: (b) 20]

- (a) 32
- (b) 20
- (c) 24
- (d) 28

49. Which acid is present in the human stomach?

[Ans: (a) HCl]

- (a) HCl
- (b)  $\text{H}_2\text{SO}_4$
- (c) Citric Acid
- (d) Nitric Acid

50. The Blood Bank of the human body is:

[Ans: (b) Spleen]

- (a) Heart
- (b) Spleen
- (c) Liver
- (d) Bone Marrow