

# MPSC Meghalaya LDA: Biology High-Yield Guide

(50 Solved High-Probability MCQs)

Meghalaya Exam Science Series

## Part I: High-Yield Biology Notes

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- **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

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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