

REPTILES, AVES and MAMMALS

REPTILES:

1. Match the following:

List-I	List-II
A) Phrynosoma	I) Hatteria
B) Varanus	II) Horned toad
C) Heloderma	III) Glass snake
D) Ophiosaurus	IV) Beaded lizard
	V) Monitor lizard

	A	B	C	D
1)	IV	V	II	III
2)	III	IV	V	II
3)	II	V	IV	III
4)	I	V	II	III

2. Match the following:

List-I (Order)	List-II (Character)
A) Chelonia	I) Lungs are asymmetrical
B) Crocodilia	II) Neck is indistinct
C) Lacertilia	III) Nasal opening is single
D) Ophidia	IV) Proatlas is present
	V) Ribs are with uncinat process

	A	B	C	D
1)	IV	II	V	IV
2)	III	IV	II	V
3)	III	IV	II	I
4)	II	V	IV	III

3. **Assertion (A):** Victim of krait bite dies due to the paralysis of respiratory muscles and asaphysia.

Reason (R) : Neurotoxins cause haemorrhage and tissue destruction.

- 1) both (A) and (R) are true and (R) is the correct explanation of (A)
 2) both (A) and (R) are true but (R) is not the correct explanation of (A)
 3) (A) is true but (R) is false
 4) (A) is false but (R) is true

4. Study the following table and choose the correct combinations :

Snake	Character	Nature of poison
I) Russel's viper	Sub-caudals are in two rows	Haemotoxic venom
II) Naja naja	Sub-caudals are in single row	Neurotoxic venous
III) Bungarus fasciatus	Sub-caudals are in two rows	Neurotoxic venom
IV) Echis carinata	Sub-caudals are in single row	Haemotoxic venom

- 1) I and II
 2) I and III
 3) II and III
 4) I and IV

5. Study the following table and choose the correct combinations :

Condition	Number and location of temporal fossae	Group
I) Synapsid	One, located low behind the eye	Cyanognathus
II) Parapsid	One, located high behind the eye	Ichthyosaurus
III) Euryapsid	Two, located low behind the eye	Plesiosaurus
IV) Diapsid	Two, post orbital and squamoral meet between them	Pelycosaurus

- 1) I and II
 2) I and III
 3) II and III
 4) III and IV

6. Following are the statements about snakes:

- I) Eryx is a poisonous double headed snake.
 II) Enhydrina is a viviparous snake with rudder shaped tail.
 III) Dryophis is with a prehensile tail and its saliva is weakly poisonous.

- 1) I and II are correct
 2) I and III are correct
 3) II and III are correct
 4) I, II and III are correct

7. Following are the statements about blood vascular system in reptiles

- A) Heart is three chambered with two auricles and one ventricle
 B) Truncus arteriosus is present
 C) Three aortic arches are known to originate directly from the ventricle

- 1) A and B are true
 2) B and C are true
 3) A and C are true
 4) A, B and C are true

8. The correct sequence of characters in identifying a snake as Cobra

- A) Head is covered by shields
 B) Ventrals extending fully across the belly
 C) Cylindrical tail
 D) Supra labial

- 1) A - B - C - D
 2) B - A - C - D
 3) C - B - A - D
 4) A - C - B - D

9. Type of vertebrae in rhynchocephalia is
 - 1) Procoelous
 - 2) Amphicoelous
 - 3) Heterocoelous
 - 4) Acoelous
10. Reptilian without sternum and with a single nasal opening is
 - 1) Sphenodon
 - 2) Hemidactylus
 - 3) Testudo
 - 4) Varanus
11. Which of the following is not a characteristic feature of order squamata ?
 - 1) Procoelous vertebrae
 - 2) Single headed ribs
 - 3) Movable quadrate
 - 4) Longitudinal cloacal aperture
12. Which of the following reptile belongs to palaeozoic end merozoic era ?
 - 1) Ichthyosaurus
 - 2) Cynognathus
 - 3) Pelycosaurus
 - 4) Plesiosaurus
13. Which of the following character is not applicable to Lacertilians ?
 - 1) Well developed eyelids
 - 2) Well developed Eustachian recess
 - 3) Well developed tympanum
 - 4) Unequally developed lungs
14. In which of the following group reptiles kidneys are asymmetrical ?
 - 1) Lacertilians
 - 2) Ophidians
 - 3) Rhynchocephalians
 - 4) Chelonians
15. Reptilians with a pseudopalate and double headed ribs belong to the sub class
 - 1) Anapsida
 - 2) Ichthyopterygia
 - 3) Synapsida
 - 4) Archosauria
16. Reptiles evolved in the period
 - 1) Cretaceous period
 - 2) Jurassic period
 - 3) Triassic period
 - 4) Carboniferous period
17. Number of cranial nerves in snakes is
 - 1) 8 pairs
 - 2) 10 pairs
 - 3) 12 pairs
 - 4) 24 pairs
18. Clavicles are absent in the pectoral girdle of
 - 1) Alligator
 - 2) Tuatara lizard
 - 3) Gavialis
 - 4) Tropidonotus
19. Snake with clefted anal shield is
 - 1) Bungarus coeruleus
 - 2) Bungarus fascialis
 - 3) Hemibungarus
 - 4) Vipera russelli
20. Urinary bladder is absent in
 - 1) Draco
 - 2) Ophisaurus
 - 3) Phrynosoma
 - 4) Eryx
21. A small blood vessel known to connect systemic arch with pulmonary arch is seen in the
 - 1) Crocodilians
 - 2) Rhynchocephalians
 - 3) Chelonians
 - 4) Lacertilians
22. Reptilians with hemipenis are
 - 1) Sphenodon and Dermochelys
 - 2) Alligators and Gavialis
 - 3) Heloderma and Hemibangarus
 - 4) Ichthyosaurus and Cyanognathus
23. Lacertilian with syndactylus limbs is
 - 1) Heloderma
 - 2) Phrynosoma
 - 3) Chameleon
 - 4) Varanus
24. Head of terrestrial viviparous poisonous snake is with
 - 1) Large scales
 - 2) Small scales
 - 3) Arrow mark
 - 4) Shields
25. Which of the following character is similar in Rhynchocephalian and Squamata ?
 - 1) Presence of pineal eye
 - 2) Type of vertebrae
 - 3) Absence of copulatory organ
 - 4) Presence of transverse cloaca
26. Reptilian with vascular cloaca is
 - 1) Testudo
 - 2) Trionyx
 - 3) Chelone
 - 4) Ophiosaurus
27. Haffkin's institute is located at
 - 1) Himachal Pradesh
 - 2) Bombay
 - 3) Delhi
 - 4) Lucknow
28. Fourth infra labial is the largest in
 - 1) Cobras
 - 2) Kraits
 - 3) Vipers
 - 4) Sea snakes
29. Snake with a small cuneate plate between 4th and 5th infra labials is
 - 1) Bungarus coeruleus
 - 2) Callophis
 - 3) Naja naja
 - 4) Typhlops
30. Rattle snake is a
 - 1) Himalayan pit viper
 - 2) South Indian pit less viper
 - 3) Indian pit viper
 - 4) American pit viper

31. Match the following:

List-I	List-II
A) Counter feathers are with	I) Long flexible barbs and sharp barbules
B) Filoplumes are with	II) Poorly developed interlocking mechanism
C) Down feathers are with	III) Short calamus and weak barbs
D) Quill feathers on the wing are called	IV) Rectrices
	V) Remiges

- | | A | B | C | D |
|----|----|-----|-----|----|
| 1) | I | III | II | IV |
| 2) | II | I | III | V |
| 3) | II | III | I | IV |
| 4) | II | III | I | V |

32. Match the following:

List-I	List-II
A) Phalacrocorax is with	I) Highly developed corpus callosum
B) Ornithorhynchus is with	II) Prehensile tail
C) Primates are with	III) Rudimentary tail
D) Didelphys is with	IV) Monocondylic skull
	V) Clawed and webbed toes

- | | A | B | C | D |
|----|-----|----|-----|-----|
| 1) | II | IV | III | V |
| 2) | III | V | I | II |
| 3) | II | V | IV | I |
| 4) | V | II | I | III |

33. Arrange the following birds based on their size from smallest to the largest:

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|------------------|------------------|------------------|---------------------|
| A) Dromaeus | B) Casuarius | C) Apteryx | D) Struthio camelus |
| 1) D - A - B - C | 2) D - B - A - C | 3) C - B - A - D | 4) C - D - B - A |

34. Arrange the following structures of counter feathers from lower end to the upper end

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|-----------------------|-----------------------|----------------------|
| A) Superior umbilicus | B) Inferior umbilicus | C) Rachis |
| D) Hyporachis | E) Calamus | |
| 1) D - C - B - A - E | 2) E - B - A - D - C | 3) E - A - B - D - C |
| | | 4) B - E - A - D - C |

35. Following are the statements about birds:

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|--|--------------------------|
| A) Female birds are with a pair of functional ovaries. | C) Eggs are megalecithal |
| B) Cleavage is meroblastic | |
| 1) A and B are true | 2) B and C are true |
| 3) A and C are true | 4) A, B and C are true |

36. Following are the statements about Opossum

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| A) Gestation period is 12 to 14 days. |
| B) Upper jaw is with five pairs of incisors and lower jaw with four pairs of incisors. |
| C) Tail is prehensile. |
| 1) A and B are true |
| 2) B and C are true |
| 3) A and C are true |
| 4) A, B and C are true |

37. **Assertion (A):** Wings of birds are with quill feathers.

Reason (R) : Vexillum of feather comprises of barbs, barbeules and barbicels with an interlocking arrangement.

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| 1) both (A) and (R) are true and (R) is the correct explanation of (A) |
| 2) both (A) and (R) are true but (R) is not the correct explanation of (A) |
| 3) (A) is true but (R) is false |
| 4) (A) is false but (R) is true |

38. **Assertion (A):** Mammals have only left systemic arch.

Reason (R) : Renal portal system is absent in mammals.

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| 1) both (A) and (R) are true and (R) is the correct explanation of (A) |
| 2) both (A) and (R) are true but (R) is not the correct explanation of (A) |
| 3) (A) is true but (R) is false |
| 4) (A) is false but (R) is true |

39. Study the following table and choose the correct combinations :

Animal	Character	Habitat
I) Spiny anteater	Snout is long and tubular	Tasmania and New Guinea
II) Koala bear	Tail is prehensile	Australia
III) Duck billed platypus	Toes are clawed and webbed	Australia and Tasmania
IV) Opossum	4 pairs of incisors on the lower jaw	S. America

- | | | | |
|-------------|---------------|---------------|-------------|
| 1) I and II | 2) II and III | 3) III and IV | 4) I and IV |
|-------------|---------------|---------------|-------------|

40. Birds became modernised in the period
 1) Carboniferous period 2) Jurassic period 3) Triassic period 4) Cretaceous period
41. Synsacrum in birds is formed by the fusion of
 1) Only caudal vertebrae 2) Last thoracic and lumbar vertebrae only
 3) Lumbar and caudal vertebrae only
 4) Last thoracic, lumbar sacral and few caudal vertebrae
42. Flight muscle involved in elevating the wings during flight is
 1) Coracofrachialis longus 2) Coracofrachialis brevis
 3) Pectoralis major 4) Pectoralis minor
43. Smallest living flightless bird with a keen sense of smell is
 1) Dromaeus 2) Casuarius 3) Apteryx 4) Tinamus
44. Ratitae bird with oil gland is
 1) Emu 2) Cassowary 3) Tinamou 4) American ostrich
45. Which of the following character is not seen in birds?
 1) Four chambered heart 2) Sinus venosus is absent
 3) Truncus arteriosus is absent 4) Developed renal portal system
46. Third largest bird is
 1) Tinamus 2) Apteryx 3) Casuarius 4) Dromaeus
47. Which of the following is an unpaired air sac in pigeon's respiratory system ?
 1) Abdominal air sac 2) Anterior thoracic air sac
 3) Posterior thoracic air sac 4) Interclavicular air sac
48. Feathers known to cover the newly hatched birds and provide insulation are
 1) Quill feathers 2) Counter feathers 3) Down feathers 4) Filopumes
49. In birds, intraocular pressure in the eye is maintained by
 1) Nictitating membrane 2) Sclerotic plates 3) Pecten 4) Oil gland
50. Salivary glands found to absent in man are
 1) Parotid 2) Sub-maxillary 3) Sub-lingual 4) Infraorbitals
51. Number of cervical vertebrae in manatee are
 1) 7 2) 9 3) 6 4) 3
52. Type of cleavage in mammals is
 1) Holoblastic unequal 2) Holoblastic equal
 3) Holoblastic and spiral 4) Meroblastic
53. Dentition in Eutherians never exceeds
 1) 3/2, 1/1, 4/4, 3/3 2) 3/3, 1/1, 4/3, 3/2 3) 3/2, 1/1, 4/2, 3/2 4) 3/3, 1/1, 4/4, 3/3
54. Which of the following is not a characteristic feature of Prototherians?
 1) Vertebrae are without epiphytes 2) Ribs are single headed
 3) Coracoids are under developed 4) Cochlea is simple
55. Dolphins belong to the order
 1) Chiroptera 2) Celacea 3) Rodentia 4) Chiroptera
56. Marsupium in metatherians is supported by
 1) Ribs 2) Epiphyses 3) Clavicles 4) Epipubic bones
57. Gynoeconomastism is exhibited by
 1) Phascolarctos 2) Didelphys 3) Caenobestes 4) Ornithorhynchus
58. Smallest bone in mammals is
 1) Malleus 2) Incus 3) Stapes 4) Dentary
59. Mammal known to show chorioallantoic placenta is
 1) Bat 2) Echidna 3) Caenobestes 4) Macropus
60. Bats belong to the Eutherian order
 1) Probosciolea 2) Celoecea 3) Chiroptera 4) Logomorpha