

Question Booklet No. :

ZOPG/2022

Register
Number

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2022
PAPER – I
ZOOLOGY
(P.G. Degree Standard)

Duration : Three Hours]

[Total Marks : 300

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS

1. You will be supplied with this question booklet 15 minutes prior to the commencement of the examination.
2. This question booklet contains 200 questions. Before answering the questions, you shall check whether all the questions are printed serially and ensure that there are no blank pages in the question booklet. **If any defect is noticed in the question booklet, it shall be reported to the invigilator within the first 10 minutes and get it replaced with a complete question booklet. If the defect is reported after the commencement of the examination, it will not be replaced.**
3. Answer all the questions. All the questions carry equal marks.
4. You must write your register number in the space provided on the top right side of this page. Do not write anything else on the question booklet.
5. An answer sheet will be supplied to you separately by the room invigilator to shade the answers. Instructions regarding filling of answers etc., which are to be followed mandatorily, are provided in the answer sheet and in the memorandum of admission (Hall Ticket).
6. You shall write and shade your question booklet number in the space provided on page one of the answer sheet with **BLACK INK BALL POINT PEN**. If you do not shade correctly or fail to shade the question booklet number, your answer sheet will be invalidated.
7. Each question comprises of five responses (answers) : i.e. (A), (B), (C), (D) and (E). You have to select **ONLY ONE** correct answer from (A) or (B) or (C) or (D) and shade the same in your answer sheet. If you feel that there are more than one correct answer, shade the one which you consider the best. **If you do not know the answer, you have to mandatorily shade (E).** In any case, choose **ONLY ONE** answer for each question. If you shade more than one answer for a question, it will be treated as a wrong answer even if one of the given answers happens to be correct.
8. You should not remove or tear off any sheet from this question booklet. You are not allowed to take this question booklet and the answer sheet out of the examination room during the time of the examination. After the examination, you must hand over your answer sheet to the invigilator. You are allowed to take the question booklet with you only after the examination is over.
9. **You should not make any marking in the question booklet except in the sheets before the last page of the question booklet, which can be used for rough work. This should be strictly adhered to.**
10. Failure to comply with any of the above instructions will render you liable for such action as the Commission may decide at their discretion.

SEAL

SPACE FOR ROUGH WORK



1. The structure of mulberry silkworm emerging out by breaking the cocoon.

(A) 6th stage silkworm larvae

(B) Beetle

(C) Pupa

(D) Winged moth

(E) Answer not known

2. Match the fowls with their corresponding breeds of poultry.

(a) Desi breed

1. Sussex

(b) American breed

2. Ghagus

(c) English breed

3. Leghorn

(d) Mediterranean breed

4. Plymouth rock

(a) (b) (c) (d)

(A) 2 4 1 3

(B) 1 2 3 4

(C) 4 3 2 1

(D) 2 3 4 1

(E) Answer not known

3. Name the nutritive substance produced by the worker Bees?

(A) Saliva

(B) Bile juice

(C) Royal Jelly

(D) Vitamins

(E) Answer not known

4. Artificial method of inducing major carps to lay eggs is called
- (A) Auto fertilization
 - (B) Hypophysation
 - (C) Steroid hormone administration
 - (D) Parthenogenesis
 - (E) Answer not known
5. *Sesamia inferens*, wheat pest can be controlled by dusting with _____ percent BHC powder.
- (A) 2%
 - (B) 5%
 - (C) 7%
 - (D) 8%
 - (E) Answer not known
6. 'Dead Hearts' disease caused by
- (A) *Atherigona Soccata*
 - (B) *Anaphothrips Sudanensis*
 - (C) *Agrotis Biconica*
 - (D) *Agrotis spinifera*
 - (E) Answer not known
7. Round worms, flatworms and the Nematode worms are collectively called as _____ worms.
- (A) Blood
 - (B) Ectoparasitic
 - (C) Helminth
 - (D) Driller
 - (E) Answer not known

8. Black water fever associated with

- (A) *P. talcparum*
- (B) *E. histolytica*
- (C) *P. vivax*
- (D) *T. gambiense*
- (E) Answer not known

9. *Schistoma* is a parasite found in

- (A) Lungs
- (B) Intestine
- (C) Blood
- (D) Liver
- (E) Answer not known

10. The *Wuchereria* is found in

- (A) Lungs
- (B) Eye
- (C) Lymph node
- (D) Gonads
- (E) Answer not known

11. Abscesses more common in

- (A) Liver
- (B) Brain
- (C) Leg
- (D) Hand
- (E) Answer not known

12. Which syndrome occurs when one of the two X chromosomes is missing in a set of sex chromosome?
- (A) Down syndrome
 - (B) Turner's syndrome
 - (C) Klinefelter syndrome
 - (D) Trisomy
 - (E) Answer not known
13. The disease hydatiform mole in female is caused by
- (A) Uniparental Diploidy
 - (B) Uniparental Disomy
 - (C) Uniparental Isodisomy
 - (D) Uniparental Monoploidy
 - (E) Answer not known
14. Tumour cells create new blood supply by a process called
- (A) Angiogenesis
 - (B) Metagenesis
 - (C) Androphore
 - (D) Blastema
 - (E) Answer not known

15. The Hardy Weinberg law can be used to determine the frequencies of
- (A) Chromosomes
 - (B) Genes
 - (C) Alleles
 - (D) Factors
 - (E) Answer not known
16. The example of inducible operon is
- (A) lac-operon
 - (B) try-operon
 - (C) arginine operon
 - (D) both (A) and (B)
 - (E) Answer not known
17. Parasites which cannot live without the host animals are called as
- (A) Obligate parasites
 - (B) Ecto parasites
 - (C) Non-living parasites
 - (D) Facultative parasites
 - (E) Answer not known

18. Which of the following statements is correct regarding allosteric enzymes?
- (A) If follows Michaelis Menten kinetics
 - (B) K_m represent the substrate concentration
 - (C) Effector molecule enhance or inhibit substrate binding
 - (D) The regulatory site may be catalytic site
 - (E) Answer not known
19. The number of double bonds in Arachidonic acid
- (A) 4
 - (B) 2
 - (C) 3
 - (D) 1
 - (E) Answer not known
20. Methyl groups are attached to which carbon atom number in the structure of cholesterol
- (A) C_5 and C_6
 - (B) C_{16} and C_{17}
 - (C) C_{10} and C_{13}
 - (D) C_{18} and C_{19}
 - (E) Answer not known
21. Cellulose was discovered by
- (A) Anselme Payen
 - (B) Jacobus H. Van't Hoff
 - (C) Joseph A. LeBel
 - (D) Adolph Kolbe
 - (E) Answer not known

22. The enzyme _____ catalyze the interconversion of anomeric sugars.
- (A) Fructose
 - (B) Amylase
 - (C) Sucrose
 - (D) Mutarotase
 - (E) Answer not known
23. An amino acid containing sulphur
- (A) Methionine
 - (B) Glycine
 - (C) Alanine
 - (D) Isoleucine
 - (E) Answer not known
24. In food _____ is added to prevent rancidity.
- (A) Oleic acid
 - (B) Pelargonic acid
 - (C) Vitamin K
 - (D) Vitamin E
 - (E) Answer not known
25. A stretch of euchromatin has 200 nucleosomes. How many base pair will be there in the stretch?
- (A) 20,000
 - (B) 30,000
 - (C) 10,000
 - (D) 40,000
 - (E) Answer not known

26. A molecule required for progression of cell cycle from G₁ to S-phase in eukaryotic cells

- (A) Cd K2/cyclin E
- (B) Cd K2/cyclin A
- (C) Cd K4/cyclin D
- (D) Cd C2/cyclin B
- (E) Answer not known

27. Match the following.

- | | |
|--------------------|-------------------------------|
| (a) Telocentric | 1. Centromere at centre |
| (b) Acrocentric | 2. Centromere near the centre |
| (c) Submetacentric | 3. Centromere at proximal end |
| (d) Metacentric | 4. Centromere at one end |

- | | (a) | (b) | (c) | (d) |
|---|------------------|-----|-----|-----|
| (A) | 2 | 4 | 1 | 3 |
| (B) | 4 | 2 | 3 | 1 |
| <input checked="" type="checkbox"/> (C) | 3 | 4 | 2 | 1 |
| (D) | 1 | 4 | 3 | 2 |
| (E) | Answer not known | | | |

28. A molecule formed from cytosolic ATP acts as 'second messenger' in biological system is

- (A) cDNA
- (B) cAMP
- (C) ADP
- (D) ATPase
- (E) Answer not known

29. Identify the incorrect match :

- (1) WWF – World Wild Life Foundation
- (2) IBWL – Indian Board for Wildlife
- (3) BNHS – Bombay Natural History Society
- (4) WPSI – Wildlife Protection Society
- (A) (1) and (3)
- (B) (2) and (4)
- (C) (2) and (3)
- (D) (1) and (4)
- (E) Answer not known

30. In *Acinonyx jubatus* the gestation period ranging from _____ days.

- (A) 90–92
- (B) 90–95
- (C) 90–98
- (D) 90–100
- (E) Answer not known

31. Match the following.

- | | |
|-------------------------------|--------------|
| (a) Gir National Park | 1. Karnataka |
| (b) Bandipur National Park | 2. Rajasthan |
| (c) Simhpal National Park | 3. Gujarat |
| (d) Ranathombar National Park | 4. Orissa |

- | | (a) | (b) | (c) | (d) |
|---|------------------|-----|-----|-----|
| (A) | 2 | 4 | 3 | 1 |
| <input checked="" type="checkbox"/> (B) | 3 | 1 | 4 | 2 |
| (C) | 2 | 3 | 1 | 4 |
| (D) | 1 | 2 | 3 | 4 |
| (E) | Answer not known | | | |

32. Which of the following fact is not associated with natural selection theory?

- (A) Variations
- (B) Prodigality of production
- (C) Inheritance of acquired characters
- (D) Struggle for existence
- (E) Answer not known

33. Assertion and Reason :

Assertion [A] : Cannibalism among primitive men was almost a ritual ceremony.

Reason [R] : In the Choukoutien caves there were numerous skulls of Homoerectus, which have been broken apart at the base in such a way as to suggest that brains were removed for eating.

- (A) [A] is false but [R] is true
- (B) [A] is true but [R] is false
- (C) [A] and [R] are true and [R] is the correct explanation
- (D) [A] and [R] are true but [R] is not the correct explanation
- (E) Answer not known

34. The heart of the bird is _____ chambered.

- (A) Four
- (B) Three
- (C) Double
- (D) Single
- (E) Answer not known

35. The fish 'synaptara' is

- (A) Surface dweller
- (B) Mid-depth dweller
- (C) Bottom dweller
- (D) Lower-depth dweller
- (E) Answer not known

36. Which among the following refers to the bird migration resulting from the need to occupy a special region or environment for some part of reproductive process?

- (A) Climatic migration
- (B) Gametic migration
- (C) Erratic migration
- (D) Alimental migration
- (E) Answer not known

37. Match the following.

- | | |
|----------------------|-----------------|
| (a) Rhyncocephalians | 1. Jurassic age |
| (b) Geosaurus | 2. Eusuchian |
| (c) Baurusuchus | 3. Sphenodon |
| (d) Alligator | 4. Sebasuchian |

- | | (a) | (b) | (c) | (d) |
|---|------------------|-----|-----|-----|
| <input checked="" type="checkbox"/> (A) | 3 | 1 | 4 | 2 |
| (B) | 4 | 1 | 2 | 3 |
| (C) | 1 | 2 | 3 | 4 |
| (D) | 4 | 2 | 1 | 3 |
| (E) | Answer not known | | | |

38. Assertion [A]: Many strongly electric fishes get the shock of self stimulation while discharging their electric organs outside water.

Reason [R]: It is because the voltage across the body tissue is decreased in air.

- (A) [A] is true, [R] is false
- (B) [A] is false, [R] is true
- (C) Both [A] and [R] is true
- (D) Both [A] and [R] is false
- (E) Answer not known

39. The electric power generated by the ray fish is _____

- (A) 1000 Volts
- (B) One Volt
- (C) 10 Hertz
- (D) 100 Volts
- (E) Answer not known

40. Which of the following statements are true about electron microscopy?

- (i) In the electron microscope, electrons are focused on the plane of the object by means of magnetic coil.
 - (ii) In the electron microscope, streams of electrons are deflected by an electrostatic or an electromagnetic field.
 - (iii) The electron microscope permits direct study of biological ultra structure.
 - (iv) The anode of the electron microscope emits the stream of electrons.
- (A) (i), (ii), (iv)
 - (B) (ii), (iii), (iv)
 - (C) (i), (ii), (iii)
 - (D) (i), (iii), (iv)
 - (E) Answer not known

41. The increasing diversification of form and function in an organism is called
- (A) Involution
 - (B) Differentiation
 - (C) Extension
 - (D) Delamination
 - (E) Answer not known
42. The movement of masses of cells toward each other and their fusion into one cell is called
- (A) Concrecence
 - (B) Convergence
 - (C) Divergence
 - (D) Extension
 - (E) Answer not known
43. Fertilizin glycoprotein is called
- (A) Polysaccharide
 - (B) Acrosomin
 - (C) Proteoglycan
 - (D) Hyalurodinase
 - (E) Answer not known

44. The activation of eggs by sperm cells during fertilization is triggered by _____ ions.
- (A) Calcium
 - (B) Manganese
 - (C) Magnesium
 - (D) Sodium
 - (E) Answer not known
45. In the modern era of immunisation, who discovered the method of attenuating vaccination?
- (A) Edward Jenner
 - (B) Louis Pasteur
 - (C) Jonas Salk
 - (D) Albert Sabin
 - (E) Answer not known
46. The immunoglobulin which is found in colostrum?
- (A) IgA
 - (B) IgM
 - (C) IgE
 - (D) IgG
 - (E) Answer not known
47. Detection of unknown antibodies in VORL by
- (A) Precipitation
 - (B) Agglutination
 - (C) Haemagglutination
 - (D) Coombs test
 - (E) Answer not known

48. Secondary immune response is
- (A) Immune responses against the subsequent exposure of same animal with same antigen
 - (B) Exposure of antigen at the first time
 - (C) Plateau phase of response
 - (D) Decline phase of response
 - (E) Answer not known
49. Monocytes produce _____ type of cytokine.
- (A) IL - 1
 - (B) IL - 2
 - (C) IL - 3
 - (D) IL - 4
 - (E) Answer not known
50. Interleukin - 4 is secreted by
- (A) T_H cell
 - (B) T_H 2 cell
 - (C) T_H 1 cell
 - (D) B cell
 - (E) Answer not known
51. The ingestion of liquid food through the surface of the body is
- (A) phagocytosis
 - (B) pinocytosis
 - (C) invagination
 - (D) import
 - (E) Answer not known

52. Choose the correct matches among the following :

- | | |
|--------------------------|--|
| 1. Secondary structure | – Linear sequence |
| 2. Tertiary structure | – Overall fold of protein sequence |
| 3. Quaternary structure | – Arrangement of alpha helices and beta strands |
| 4. Quinternary structure | – Arrangement of separate molecules, protein-protein or protein-nucleic acid |

- (A) 1 and 2 are correct
(B) 2 and 3 are correct
 (C) 2 and 4 are correct
(D) 3 and 4 are correct
(E) Answer not known

53. Choose the correct answer :

Chi-square is zero when expected frequency is

- (A) Lesser than observed frequency
 (B) Equal to observed frequency
(C) Double than the observed frequency
(D) Greater than the observed frequency
(E) Answer not known

54. The following distribution is used for testing a hypothesis

- (A) Gamma Distribution
(B) Poisson Distribution
(C) Normal Distribution
 (D) Chi-square Distribution
(E) Answer not known

55. What is otherwise called as surface diagram?
- (A) One dimensional diagram
 - (B) Three dimensional diagram
 - (C) Two dimensional diagram
 - (D) Pictograms
 - (E) Answer not known
56. The data which are collected directly from the field is called as
- (A) Quantitative data
 - (B) Secondary data
 - (C) Primary data
 - (D) Qualitative data
 - (E) Answer not known
57. Demerits of standard deviation
- (A) It gives more weightage to extreme values and less to the values which are near to the mean
 - (B) It is rigidly defined
 - (C) It is based on all the observations
 - (D) It is less affected by sampling fluctuations
 - (E) Answer not known
58. A circle divided into sectors proportional to the frequency of items shown is called
- (A) Frequency polygon
 - (B) Histogram
 - (C) Pie chart
 - (D) Bar chart
 - (E) Answer not known

59. Which of the following statements are true about standard deviation?
- (i) It is a measure of dispersion.
 - (ii) It is the root mean square deviation.
 - (iii) It is the average deviation or mean variation.
 - (iv) It is the square root of variance.
- (A) (i), (iii), (iv)
(B) (i), (ii), (iii)
 (C) (i), (ii), (iv)
(D) (i), (iv)
(E) Answer not known
60. The two phases in chromatography methods
- (A) Stationary phase and separation phase
 - (B) Mobile phase and separation phase
 - (C) Gaseous phase and liquid phase
 - (D) Stationary phase and mobile phase
 - (E) Answer not known
61. BKM-DNA probe for DNA finger printing was isolated from
- (A) Snake
 - (B) Fruitfly
 - (C) Rhesus monkey
 - (D) Retrovirus
 - (E) Answer not known

62. Assertion [A] : For determining the parentage of a child 50% bands in the child's DNA print should match with those of the father's DNA print and the rest should match with those of the mother's DNA print.
- Reason [R] : Half of the DNA of the child come from the father and the other half of the DNA come from the mother.
- (A) [A] and [R] are correct
(B) [A] and [R] are correct but [R] is not the correct explanation for [A]
(C) [A] and [R] are not true
 (D) [A] is true and [R] is the correct explanation for [A]
(E) Answer not known
63. Which of the following is incorrectly paired?
1. PCR – Polymerase Chain Reaction
 2. RAPD – Restriction Amplified Polymerase DNA
 3. RFLP – Restriction Fragment Length Polymorphism
 4. FISH – Fragment Immuno Synthetic Hybrid
- (A) 2 and 4 are incorrect
(B) 1 and 3 are incorrect
(C) 2 and 3 are incorrect
(D) 3 and 4 are incorrect
(E) Answer not known
64. What type of Radiolabelled substances Involved in the Events of Nucleic acid metabolism during generation?
- (A) C^{14} labelled glycine
 (B) H^3 labelled cytidine
(C) H^3 labelled thymidine
(D) C^{14} labelled adenine
(E) Answer not known

65. The filament used as electron source in transmission electron microscope
- (A) Copper
 - (B) Tungsten
 - (C) Steel
 - (D) Aluminium
 - (E) Answer not known
66. The first electron microscope was designed by
- (A) Janssen and Hans
 - (B) Knoll and Ruska
 - (C) August Kochler
 - (D) Lawrence Smith
 - (E) Answer not known
67. Which among the following is the technique applied to transmission electron microscope to obtain a detailed three dimensional view of intracellular structures?
- (A) Shadowing
 - (B) Shadow casting
 - (C) Freeze – Etching
 - (D) Scanning Probe
 - (E) Answer not known
68. The larval form of sea urchin is
- (A) Echinopluteus
 - (B) Auricularia
 - (C) Pentacrinoid
 - (D) Brachiolaria
 - (E) Answer not known

69. Respiration in Gastropods occurs by

- (A) Tracheal system
- (B) Book – Lungs
- (C) Pallium
- (D) Ctenidia and Lungs
- (E) Answer not known

70. Enteronephric nephridia are

- (A) Septal
- (B) Pharyngeal
- (C) Integumentary
- (D) Pharyngeal and Septal
- (E) Answer not known

71. Match the following :

- | | |
|----------------|------------------|
| (a) Pseudocoel | 1. Starfish |
| (b) Haemocoel | 2. Taenia solium |
| (c) Schizocoel | 3. Ascaris |
| (d) Enterocoel | 4. Cockroach |
| | 5. Earthworm |

- | | (a) | (b) | (c) | (d) |
|---|-----|-----|-----|-----|
| (A) | 2 | 3 | 5 | 4 |
| (B) | 5 | 4 | 1 | 3 |
| <input checked="" type="checkbox"/> (C) | 3 | 4 | 5 | 1 |
| (D) | 4 | 3 | 5 | 1 |

(E) Answer not known

72. A reef having no navigable channel or irregular channel between the shore and reef

- (A) Fringing reef
- (B) Coral Island
- (C) Atoll reef
- (D) Barrier reef
- (E) Answer not known

73. The pork tapeworms in the human intestine is

- (A) Taenia solium
- (B) Taenia saginata
- (C) Taenia echinococcus
- (D) Hymenolepis
- (E) Answer not known

74. Choose the correct answer :

1. Fringing reefs are with deeper Lagoons.
2. Barrier reefs are located near the shore of Islands.
3. Atolls have coral Islands on their surface.

- (A) 1 and 2
- (B) 1 and 3
- (C) 2
- (D) 3
- (E) Answer not known

75. Who made significant contribution in the field of animal classification?
- (A) Oparin
 - (B) Linnaeus
 - (C) Lamarck
 - (D) Pasteur
 - (E) Answer not known
76. Which of the following is crustacean parasite?
- (A) cyclops
 - (B) calanus
 - (C) sacculina
 - (D) cypris
 - (E) Answer not known
77. In Ascidian, active free swimming larva is transformed into adult by the process of
- (A) Progressive metamorphosis
 - (B) Retrogressive metamorphosis
 - (C) Metamorphosis
 - (D) Metamerism
 - (E) Answer not known
78. In elphidium, sexual reproduction occurs in
- (A) Microspheric form
 - (B) Isogamy
 - (C) Megalospheric form
 - (D) Feeding stage
 - (E) Answer not known

79. The key enzyme for urea cycle in mammals is
- (A) Urease formed in liver
 - (B) Carbamyl phosphatase in liver
 - (C) Arginase formed in liver
 - (D) Urease formed in kidney
 - (E) Answer not known
80. Testosterone is synthesized in
- (A) Seminal vesicle
 - (B) Epididymis
 - (C) Placenta
 - (D) Leydig cells
 - (E) Answer not known
81. Choose the correct answer :
- The precursor for the synthesis of androgen is
- (A) Cholesterol
 - (B) Tyrosin
 - (C) Endorphin
 - (D) Pro-opiomelanocortin
 - (E) Answer not known
82. Which organ will develops embryonic ectoderm layer?
- (A) Muscles
 - (B) Heart
 - (C) Ear
 - (D) Blood
 - (E) Answer not known

83. The chief muscles involved in the process of inspiration is
- (A) Inspiratory muscles
 - (B) Internal intercostal muscles
 - (C) Abdominal muscles
 - (D) External intercostal muscles
 - (E) Answer not known
84. Production of red blood cells is controlled by erythropoietin a hormone produced by the
- (A) kidney
 - (B) bone marrow
 - (C) reticulo endothelial cells
 - (D) nerve
 - (E) Answer not known
85. An increased amount of enzyme is used to diagnose the heart attack
- (A) nuclease
 - (B) lactase
 - (C) transaminase
 - (D) transamylase
 - (E) Answer not known
86. The relationship between the partial pressure of oxygen and percentage saturation of hemoglobin with oxygen is called
- (A) Lung volume
 - (B) Oxygen association curve
 - (C) Carbondioxide dissociation curve
 - (D) Oxygen dissociation curve
 - (E) Answer not known

87. The absorption of glucose takes place in
- (A) large intestine
 - (B) stomach
 - (C) duodenum
 - (D) small intestine
 - (E) Answer not known
88. Bile salts in mammals are
- (A) Haemoglobin and biliverdin
 - (B) Bilirubin and biliverdin
 - (C) Bilirubin and pepsin
 - (D) Sodium glycolate and taurocholate
 - (E) Answer not known
89. The energy output of the human body under basal or standard conditions is called
- (A) Higher metabolic rate
 - (B) Basal metabolic rate
 - (C) Respiration quotient
 - (D) Calorific value
 - (E) Answer not known
90. HCl is secreted by which of the following cells?
- (A) Autonomic cells
 - (B) Muscle cell
 - (C) Oxyntic cell
 - (D) Blood cell
 - (E) Answer not known

91. Atmospheric scientists have developed complex computer model's of earth's climate system is
- (A) General Circulation Models (GCM)
 - (B) Intergovernmental Panel on Climate Change (IPCC)
 - (C) National Ocean and Atmospheric Administration (NOAA)
 - (D) Geo Physical Fluid Dynamic Lab (GFDL)
 - (E) Answer not known
92. Which article in constitution recognizes environmental protection as one of the fundamental duties of every citizen of India?
- (A) Article 42
 - (B) Article 48A
 - (C) Article 51A(g)
 - (D) Article 52
 - (E) Answer not known
93. How many chapters and sections are there in "Environment Protection Act – 1986"?
- (A) 4 Chapters and 24 Sections
 - (B) 3 Chapters and 22 Sections
 - (C) 4 Chapters and 26 Sections
 - (D) 4 Chapters and 22 Sections
 - (E) Answer not known

94. Match the following :

- | | |
|----------------------|-----------------------------------|
| (a) Aldehydes | 1. Coal and oil combustion |
| (b) Carbon monoxides | 2. Bleaching of cotton and flour |
| (c) Sulphur | 3. Thermal composition of fat/oil |
| (d) Chlorines | 4. Burning of coal |

- | | (a) | (b) | (c) | (d) |
|---|------------------|-----|-----|-----|
| (A) | 3 | 2 | 1 | 4 |
| (B) | 1 | 3 | 4 | 2 |
| (C) | 3 | 4 | 2 | 1 |
| <input checked="" type="checkbox"/> (D) | 3 | 4 | 1 | 2 |
| (E) | Answer not known | | | |

95. Some pollutants combine with haemoglobin and impede oxygen transport. Such pollutants are

- (A) Carbondioxide
- (B) Nitrates
- (C) Freon gas
- (D) Carbon monoxide and sulphur trioxide
- (E) Answer not known

96. Which of the following city is reported to have highest carbon mono oxide pollution?

- (A) Kolkata
- (B) New Delhi
- (C) Chennai
- (D) Mumbai
- (E) Answer not known

97. Select the correct order of the five distinct layers of atmosphere
- (A) Troposphere, mesosphere, stratosphere, ionosphere, exosphere
 - (B) Stratosphere, troposphere, ionosphere, mesosphere, exosphere
 - (C) Troposphere, stratosphere, mesosphere, ionosphere, exosphere
 - (D) Exosphere, stratosphere, troposphere, mesosphere, ionosphere
 - (E) Answer not known
98. Which of the following is not a source of raw material for bio-ethanol production?
- (A) Sugarcane
 - (B) Sweet sorghum
 - (C) Jatropha
 - (D) Sugar beet
 - (E) Answer not known
99. The following is not involved in the vital role of Forests?
- (A) Productive
 - (B) Protective
 - (C) Regulative
 - (D) Destructive
 - (E) Answer not known
100. The origin for wind energy is
- (A) Moon
 - (B) Star
 - (C) Sun
 - (D) Water
 - (E) Answer not known

101. The zone of ocean which is characterised by complete darkness is known as

- (A) Benthic Zone
- (B) Mesopelagic Zone
- (C) Dark Zone
- (D) Bathypelagic Zone
- (E) Answer not known

102. The most important pearl oyster

- (A) *Pinctada anomoides*
- (B) *Pinctada fucata*
- (C) *Pinctada chemnitzii*
- (D) *Pinctada margaritifera*
- (E) Answer not known

103. The type of hardy fishes that can be grown along with prawns are

- (A) Cat fish
- (B) Tilapia
- (C) Carps
- (D) Channa
- (E) Answer not known

104. Lac insect belongs to the order

- (A) Hymenoptera
- (B) Hemiptera
- (C) Homoptera
- (D) Diptera
- (E) Answer not known

105. Match the following :

- (a) Rock bee
- (b) Indian bee
- (c) Little bee
- (d) Italian bee

- 1. Apis mellifera
- 2. Apis dorsata
- 3. Apis indica
- 4. Apis florea

- | | (a) | (b) | (c) | (d) |
|---|------------------|-----|-----|-----|
| (A) | 2 | 4 | 1 | 3 |
| <input checked="" type="checkbox"/> (B) | 2 | 3 | 4 | 1 |
| (C) | 3 | 4 | 1 | 2 |
| (D) | 1 | 2 | 4 | 3 |
| (E) | Answer not known | | | |

106. Honey Bee larva feed with

- (A) Royal jelly
- (B) Honey
- (C) Pollen
- (D) Water
- (E) Answer not known

107. Pebrine disease in silkworm is caused by

- (A) Bacteria
- (B) Fungi
- (C) Protozoa
- (D) Nematodes
- (E) Answer not known

108. *Eleuthronema tetradactylum* is one of the species of
- (A) Polynemids
 - (B) Prawns
 - (C) Polychaetes
 - (D) Predatory fishes
 - (E) Answer not known
109. *Taenia solium* is commonly known as
- (A) Beef tapeworm
 - (B) Human tapeworm
 - (C) Pork tapeworm
 - (D) Sheep-liver fluke
 - (E) Answer not known
110. Bombay duck is the popular name of
- (A) Hilsa ilisha
 - (B) Thanu vala
 - (C) Chala vala
 - (D) Harpodon neherius
 - (E) Answer not known
111. Trichuriasis is caused by the parasite
- (A) *Trichuris trichura*
 - (B) *Enterobius vermicularis*
 - (C) *Ancylostoma duodenale*
 - (D) *Trichinella spiralis*
 - (E) Answer not known

112. Schuffener's granules are found in life cycle of plasmodium in
- (A) W.B.C. of man
 - (B) RBC of man
 - (C) Liver cells of man
 - (D) All the above
 - (E) Answer not known
113. Germ cells collection containers are made up of
- (A) Copper
 - (B) Lead
 - (C) Steel
 - (D) Silver
 - (E) Answer not known
114. The best method used in inducing mutation in-microorganism
- (A) X-rays
 - (B) Beta-rays
 - (C) UV-rays
 - (D) Gamma-rays
 - (E) Answer not known
115. People who carry an allele for normal haemoglobin and one allele for sickle cell resistant to malaria. They are examples of
- (A) Heterozygote advantage
 - (B) Extreme diploidy
 - (C) Outbreeding
 - (D) Recessive superiority
 - (E) Answer not known

116. Match the following.

- (a) Hodgkin's disease
- (b) Carcinoma
- (c) Sarcoma
- (d) Myeloma

- 1. Connective tissue cancer
- 2. β -lymphocyte cancer
- 3. Skin cancer
- 4. Cancer of liver

- | | (a) | (b) | (c) | (d) |
|---|------------------|-----|-----|-----|
| (A) | 1 | 2 | 3 | 4 |
| (B) | 2 | 4 | 1 | 3 |
| <input checked="" type="checkbox"/> (C) | 4 | 3 | 1 | 2 |
| (D) | 3 | 1 | 2 | 4 |
| (E) | Answer not known | | | |

117. Select the correct match.

- (A) Morphological mutations – alterations in the external form
- (B) Lethal mutations – overcome by nutrients
- (C) Biochemical mutations – leading to death
- (D) Resistant mutations – expressed only in certain condition
- (E) Answer not known

118. Match the cancer sites with the carcinogens.

- | | |
|---------------------|------------|
| (a) Cigarettes | 1. Skin |
| (b) Aromatic amines | 2. Lungs |
| (c) Vinyl chloride | 3. Bladder |
| (d) UV radiation | 4. Liver |

- | | (a) | (b) | (c) | (d) |
|---|------------------|-----|-----|-----|
| (A) | 4 | 3 | 2 | 1 |
| (B) | 2 | 1 | 3 | 4 |
| (C) | 1 | 4 | 2 | 3 |
| <input checked="" type="checkbox"/> (D) | 2 | 3 | 4 | 1 |
| (E) | Answer not known | | | |

119. Match the following.

- | | |
|-------------------------------------|------------|
| (a) Hereditary materials | 1. Genes |
| (b) Crossing over DNA | 2. Recon |
| (c) Mutated genetic material | 3. Muton |
| (d) Coding for a single polypeptide | 4. Cistron |

- | | (a) | (b) | (c) | (d) |
|---|------------------|-----|-----|-----|
| (A) | 2 | 3 | 4 | 1 |
| (B) | 3 | 4 | 1 | 2 |
| <input checked="" type="checkbox"/> (C) | 1 | 2 | 3 | 4 |
| (D) | 4 | 2 | 3 | 1 |
| (E) | Answer not known | | | |

120. Law of segregation and law of independent assortment had been formulated by

- (A) Gregor Mendel
(B) Johannsen
(C) T.H. Morgan
(D) Louis Pastuer
(E) Answer not known

121. Endogenous secretion of insulin production can be estimated by

- (A) α chain of insulin
(B) Proinsulin
 (C) C-Peptide
(D) β Chain of insulin
(E) Answer not known

122. Acidosis is the lowering of pH in the blood is due to

- (A) rise in acetoacetate and D- β -hydroxy butyrate
(B) decrease in acetoacetate and D- β -hydroxy butyrate
(C) rise in acetoacetate decarboxylase
(D) low in L- β -hydroxacyl-CoA
(E) Answer not known

123. Match the following Amino acids with their respective additional charged side chains.

- | | |
|-------------------|----------------------------|
| (a) Glutamic acid | 1. Carboxyl group |
| (b) Lysine | 2. Guanidino group |
| (c) Arginine | 3. Imidazole group |
| (d) Histidine | 4. ϵ -Amino group |

- | | (a) | (b) | (c) | (d) |
|---|------------------|-----|-----|-----|
| (A) | 1 | 2 | 3 | 4 |
| <input checked="" type="checkbox"/> (B) | 1 | 4 | 2 | 3 |
| (C) | 1 | 3 | 2 | 4 |
| (D) | 4 | 3 | 2 | 1 |
| (E) | Answer not known | | | |

124. Laboratory test, which employed to identify the reducing sugars.

- (A) 'Bial's test
(B) Mucic acid test
 (C) Benedict's test
(D) Phenol red test
(E) Answer not known

125. Match the following.

- | | |
|--------------------------|---------------------|
| (a) Essential fatty acid | 1. Cholesterol |
| (b) Saturated fatty acid | 2. Triglycerides |
| (c) Neutral fat | 3. Stearic acid |
| (d) Steroid | 4. Arachidonic acid |

- | | (a) | (b) | (c) | (d) |
|---|------------------|-----|-----|-----|
| (A) | 1 | 2 | 3 | 4 |
| (B) | 1 | 4 | 2 | 3 |
| <input checked="" type="checkbox"/> (C) | 4 | 3 | 2 | 1 |
| (D) | 2 | 3 | 4 | 1 |
| (E) | Answer not known | | | |

126. Single stranded RNA occurs as genetic material in
- (A) Plants
 - (B) Plant virus
 - (C) Plant bacteria
 - (D) Plant fungi
 - (E) Answer not known
127. The nucleotide sequence with high melting temperature (T_m) is
- (A) AAATTT
 - (B) AAGTTC
 - (C) GGGCCC
 - (D) GGATTC
 - (E) Answer not known
128. By breaking this bond, nitrogenous base from a nucleoside can be released.
- (A) Phosphodiester bond
 - (B) Hydrogen bond
 - (C) Glycosidic bond
 - (D) Peptide bond
 - (E) Answer not known
129. Inositol triphosphate (IP_3) and Diacyl glycerol (DAG) are formed phosphatidyl inositol biphosphate (PIP_2) by the action of _____ on cell surface receptors.
- (A) Phospholipase C
 - (B) Guanyl cyclase
 - (C) Calmodulin
 - (D) Adenyl cyclase
 - (E) Answer not known

130. The enzymes which attack 5' or 3' end on the DNA molecules are
- (A) Nuclease Enzymes
 - (B) DNA polymerases
 - (C) DNA Ligases
 - (D) De oxy ribo nucleases
 - (E) Answer not known
131. "Nissl Bodies" of neurons are
- (A) Rough endoplasmic reticulum
 - (B) Smooth endoplasmic reticulum
 - (C) Golgi complex
 - (D) Centrioles
 - (E) Answer not known
132. Submetacentric chromosomes have
- (A) Long arms
 - (B) Equal arms
 - (C) Short arms
 - (D) Unequal length arms
 - (E) Answer not known
133. In which of the following National Park Indian Rhino is conserved
- (A) Corbette National Park
 - (B) Kaziranga National Park
 - (C) Manas National Park
 - (D) Kaimur National Park
 - (E) Answer not known

134. Ancestors of mammals belong to

- (A) Chelonia
- (B) Silusidea
- (C) Therapsida
- (D) Ornithischia
- (E) Answer not known

135. Amphibians have originated during _____ period of geological time scale.

- (A) Devonian
- (B) Permian
- (C) Carboniferous
- (D) Triassic
- (E) Answer not known

136. Charles Darwin discovered the Darwin's finches in _____ island.

- (A) Virgin
- (B) Hawai
- (C) Andaman
- (D) Galapagos
- (E) Answer not known

137. Find out the wrong statement about the migration of birds.

- (A) The most familiar migration of birds are from north and south
- (B) Birds learn their routes from their elders
- (C) Birds partly navigate by the observation of the position of the sun and stars
- (D) Migratory birds may be deviated by the features of the environment
- (E) Answer not known

138. Beak in sparrow is

- (A) Seed eating
- (B) Cutting
- (C) Tearing and piercing
- (D) Fruit eating
- (E) Answer not known

139. The fish which is called climbing perch

- (A) Hippocampus
- (B) Starfish
- (C) Anabas
- (D) Megalops
- (E) Answer not known

140. Ancestors of amphibians were

- (A) Osteolipids
- (B) Ornithorynchus
- (C) Theropsids
- (D) None of the above
- (E) Answer not known

141. Anura are

- (A) Scaleless fishes
- (B) Scaled reptiles
- (C) Scaleless amphibia
- (D) Wingless birds
- (E) Answer not known

142. Heart in crocodiles is

- (A) Incompletely 4 – Chambered
- (B) Completely 4 – Chambered
- (C) 3 – Chambered
- (D) 2 – Chambered
- (E) Answer not known

143. Catadromons migratory fish

- (A) *Salmo trutta*
- (B) *Salmo salar*
- (C) *Scomber scombrus*
- (D) *Anguilla anguilla*
- (E) Answer not known

144. Why does the mammalian spermatozoa produce hyaluronidase enzyme during fertilization?

- (A) To dissolve the cementing substance hyaluronic acid of the follicle cells
- (B) To attract egg
- (C) To produce acrosomal filament
- (D) To transport yolk
- (E) Answer not known

145. The deformities in limb development of the foetus is caused by the usage of drug, _____ in pregnancy.

- (A) quinine
- (B) aspirin
- (C) heroin
- (D) thalidomide
- (E) Answer not known

146. Identify the structure that undergoes second meiotic division during the process of spermatogenesis

- (A) Secondary spermatocyte
- (B) Spermatid
- (C) Primary spermatocyte
- (D) Sertoli cell
- (E) Answer not known

147. In honey bees only parthenogenetic males are produced in

- (A) Arrhenotoky
- (B) Thelytoky
- (C) Autofertilization
- (D) Aneiotic parthenogenesis
- (E) Answer not known

148. The diploid stages in human spermatogenesis are

- (A) Primary and secondary spermatocytes
- (B) Secondary spermatocyte and spermatid
- (C) Primary spermatocyte and spermatogonium
- (D) Spermatogonium and spermatid
- (E) Answer not known

149. The preparation of antigenic material used to induce immunity against pathogenic organisms.
- (A) Auto immunity
 - (B) Complement
 - (C) Hapten
 - (D) Vaccine
 - (E) Answer not known
150. The type of proteins that are synthesised in the liver during infection
- (A) Interferons
 - (B) Lactoferricin
 - (C) Cross reactive protein
 - (D) Fibronectin
 - (E) Answer not known
151. Mumps is caused by a virus known as
- (A) Retrovirus
 - (B) Herpesvirus
 - (C) Myxovirus
 - (D) Paramyxovirus
 - (E) Answer not known
152. Leucocytes secrete
- (A) Interleukins
 - (B) Interferons
 - (C) Prostaglandins
 - (D) Heparin
 - (E) Answer not known

153. The subclass of IgG antibody that cannot pass through human placenta is
- (A) Ig G₁
 - (B) Ig G₂
 - (C) Ig G₃
 - (D) Ig G₄
 - (E) Answer not known
154. The immunity mediated by T-lymphocytes is called as
- (A) Humoral immunity
 - (B) Cell-mediated immunity
 - (C) Innate immunity
 - (D) Clonal selection
 - (E) Answer not known
155. Name the scientist, who created swiss-port as a curated-protein sequence database in 1986
- (A) Amos Bairoch
 - (B) Stephen Ahschul
 - (C) Eugene Myers
 - (D) Webb Miller
 - (E) Answer not known
156. The database consists of data in a single file in the form of rows and columns is called
- (A) Secondary database
 - (B) Composite database
 - (C) Flat-file database
 - (D) Relational database
 - (E) Answer not known

157. The correlation coefficient computed for two parameters measured in 429 patients is $r = 0.829$. This means that
- (A) Two parameters are directly correlated and the link is weak- r is positive and close to 0.
 - (B) Two parameters are inversely correlated and the link is strong- r is negative and close to 1.
 - (C) The two parameters are directly correlated and the link is strong- r is positive and close to 1.
 - (D) There are two few cases and we do not trust this coefficient value.
 - (E) Answer not known
158. Pick out the visual aid for presentation of statistical data
- (A) Eyes and Ears
 - (B) Smart Boards
 - (C) Diagrams and Graphs
 - (D) Black Boards
 - (E) Answer not known
159. An upward slanted stroke which is indicated against each occurrence of value is a
- (A) Arrow
 - (B) Comma
 - (C) Array
 - (D) Tally mark
 - (E) Answer not known

160. Find out the non-Qualitative data

- (A) Height
- (B) Skin colour
- (C) Eye colour
- (D) Sex
- (E) Answer not known

161. Standard deviation is

- (A) Root mean
- (B) Squared deviation
- (C) Root mean squared deviation
- (D) Quartile deviation
- (E) Answer not known

162. The concept of standard deviation was introduced by

- (A) L.H.C. Tippett
- (B) Taro Yamane
- (C) Karl Pearson
- (D) Ya Lun Choe
- (E) Answer not known

163. pH-9 is maintained to separate protein in the electrophoresis sample because

- (A) The protein is negatively charged
- (B) The protein is positively charged
- (C) The protein is neutral charged
- (D) The protein is electrofocussed
- (E) Answer not known

164. In India, DNA fingerprinting tests are carried out at

- (A) CDRI, Lucknow
- (B) CCMB, Hyderabad
- (C) NII, New Delhi
- (D) IARI, New Delhi
- (E) Answer not known

165. Technique used for separation of DNA fragments from a sample is

- (A) Northern blotting
- (B) Southern blotting
- (C) Eastern blotting
- (D) Western blotting
- (E) Answer not known

166. When a ray of Monochromatic light passes through an absorbing medium, its intensity decreases exponentially as the length of absorbing medium increases who proposed this law?

- (A) Lambert
- (B) Beer
- (C) Beer – Lambert
- (D) James
- (E) Answer not known

167. Match the following :

- | | |
|-----------------|---------------------|
| (a) Fixation | 1. Canada balsam |
| (b) Dehydration | 2. Ethanol |
| (c) Clearing | 3. Bavin's solution |
| (d) Mounting | 4. Xylol |

- | | (a) | (b) | (c) | (d) |
|---|------------------|-----|-----|-----|
| <input checked="" type="checkbox"/> (A) | 3 | 2 | 4 | 1 |
| (B) | 1 | 2 | 4 | 3 |
| (C) | 4 | 3 | 2 | 1 |
| (D) | 2 | 4 | 1 | 3 |
| (E) | Answer not known | | | |

168. The technique used to locate the radioactive isotopes in cells, tissues and organs

- (A) Chromatography
- (B) Autoradiography
- (C) Photography
- (D) Partition Chromatography
- (E) Answer not known

169. The bipinnaria larva of Asterias develops from the zygote in about _____ days.

(A) 5

(B) 7

(C) 10

(D) 12

(E) Answer not known

170. Digestive system in human is derived from _____ layer.

(A) Mesoderm

(B) Endoderm

(C) Ectoderm

(D) Epiderm

(E) Answer not known

171. Which is the larva of crab?

(A) Cypris

(B) Alima

(C) Megalopa

(D) Phyllosoma

(E) Answer not known

172. Match the following :

- | | |
|------------------------|------------------|
| (a) Filter feeder | 1. Modified fans |
| (b) Notopodia | 2. Amphitrite |
| (c) Tentacle - feeding | 3. Arenicola |
| (d) L-shaped burrow | 4. Sabella |

- | | (a) | (b) | (c) | (d) |
|---|------------------|-----|-----|-----|
| (A) | 2 | 3 | 4 | 1 |
| (B) | 3 | 4 | 2 | 1 |
| <input checked="" type="checkbox"/> (C) | 4 | 1 | 2 | 3 |
| (D) | 1 | 3 | 2 | 4 |
| (E) | Answer not known | | | |

173. A gas filled vesicle shaped zooid which helps in swimming

- (A) Phyllozooids
- (B) Nectocalyces
- (C) Pneumatophores
- (D) Gonophores
- (E) Answer not known

174. The liver rot disease in sheep is caused by

- (A) Schistosoma
- (B) Taenia
- (C) Dugesia
- (D) Fasciola
- (E) Answer not known

175. The highest degree of polymorphism is shown by the members of

- (A) Coronate
- (B) Semaestomeae
- (C) Sipnonophora
- (D) Trachylina
- (E) Answer not known

176. The exoskeleton of a polyp is called

- (A) gastrozooids
- (B) spicules
- (C) corallum
- (D) corallite
- (E) Answer not known

177. In modern taxonomy, a taxon is a

- (A) a group of animals of a species
- (B) group of animals of a germs
- (C) group of animals with district characters
- (D) group of animals with same number of chromosomes
- (E) Answer not known

178. The common shelled protozoans belong to

- (A) Mastigophora
- (B) Sporozoa
- (C) Ciliophora
- (D) Rhizopoda
- (E) Answer not known

179. Which cell of the parathyroid gland secrete parathormone?
- (A) Chief cells
 - (B) Oxyntic cells
 - (C) Chromaffin cells
 - (D) Islets
 - (E) Answer not known
180. In human being at the age of 10 if two testes are removed which one of the following will be inhibited?
- (A) Infertility
 - (B) Secondary sexual character
 - (C) Secretion of estrogen hormone
 - (D) Sex determining chromosome
 - (E) Answer not known
181. Hormones of the Insects is
- (A) Pheromones
 - (B) Thymin
 - (C) Luciferin
 - (D) Hippuric acid
 - (E) Answer not known
182. Osmoreceptors which regulate osmotic pressure of extracellular fluid are present in
- (A) kidney
 - (B) hypothalamus
 - (C) lungs
 - (D) brain
 - (E) Answer not known

183. A chemical substance which transmits the nerve impulse through synapse
- (A) Acetic acid
 - (B) Acetaldehyde
 - (C) Acetyl choline
 - (D) Acetocarmine
 - (E) Answer not known
184. The region of the ear which detects various sound frequencies
- (A) Sacculus
 - (B) Utriculus
 - (C) Cochlea
 - (D) Ampulla
 - (E) Answer not known
185. The percentage of protein in skeletal muscle
- (A) 10%
 - (B) 20%
 - (C) 30%
 - (D) 50%
 - (E) Answer not known
186. Respiratory capacity of human blood is _____ of oxygen.
- (A) 0.393 ml
 - (B) 1.34 ml
 - (C) 13.4 ml
 - (D) 19.43 ml
 - (E) Answer not known

187. In sickle cell anemia the β -chain of haemoglobin is substituted by _____ instead of glutamic acid..

- (A) Valine
- (B) Threonine
- (C) Isoleucine
- (D) Histidine
- (E) Answer not known

188. ABO blood group was discovered by

- (A) Emerson
- (B) Karl Landsteiner
- (C) McClintock
- (D) Bridges
- (E) Answer not known

189. The molecular weight of haemoglobin is

- (A) 64,500 Daltons
- (B) 60,500 Daltons
- (C) 61,500 Daltons
- (D) 62,000 Daltons
- (E) Answer not known

190. Hormone secreted by interstitial cells of testes

- (A) Estrogen
- (B) Testosterone
- (C) Glucagon
- (D) Progesterone
- (E) Answer not known

191. Feedback inhibition of an enzymatic reaction is caused by

- (A) End product
- (B) Substrate
- (C) Enzyme
- (D) Rise in temperature
- (E) Answer not known

192. The capacity of human gall bladder is about

- (A) 10 ml
- (B) 20 ml
- (C) 50 ml
- (D) 100 ml
- (E) Answer not known

193. Match the following :

- | | |
|-----------------------------|-------------------|
| (a) Vitamin B ₁₂ | 1. Riboflavin |
| (b) Vitamin B ₆ | 2. Cyanocobalamin |
| (c) Vitamin B ₂ | 3. Thiamin |
| (d) Vitamin B ₁ | 4. Pyridoxine |
| | 5. Thymine |

- | | (a) | (b) | (c) | (d) |
|---|------------------|-----|-----|-----|
| <input checked="" type="checkbox"/> (A) | 2 | 4 | 1 | 3 |
| (B) | 4 | 2 | 3 | 1 |
| (C) | 2 | 4 | 1 | 5 |
| (D) | 3 | 2 | 4 | 1 |
| (E) | Answer not known | | | |

194. Organisms living on the bottom of the sea, lake and deep water bodies are called

- (A) Nekton
- (B) Nanoplankton
- (C) Macroplankton
- (D) Benthos
- (E) Answer not known

195. The quietest sound that the human ear can detect is called

- (A) Decibel
- (B) Bregoil
- (C) Threshold of hearing
- (D) Sense of hearing
- (E) Answer not known

196. Marsh gas is otherwise called as

- (A) Methane
- (B) Carbon di-oxide
- (C) Carbon monoxide
- (D) Nitrogen
- (E) Answer not known

197. The preservation of species under artificial conditions, such as zoos, aquariums
- (A) ex situ conservation
 - (B) in situ conservation
 - (C) ecotourism
 - (D) entrophication
 - (E) Answer not known
198. Ozone in lower atmosphere is an example of
- (A) Primary pollutant
 - (B) Not a pollutant
 - (C) Tertiary pollutant
 - (D) Secondary pollutant
 - (E) Answer not known
199. Bhopal gas Tragedy occurred in
- (A) December 2, 1984
 - (B) December 2, 1986
 - (C) December 2, 1988
 - (D) December 2, 1982
 - (E) Answer not known
200. 'Panthero leo persica' is the zoological name for
- (A) The wild ass
 - (B) Rhinoceros
 - (C) Cheetah
 - (D) The Asiatic Lion
 - (E) Answer not known

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