

Seat No.	
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M.Phil./Ph.D. Entrance Examination, August - 2018
ZOOLOGY

Day and Date : Friday, 10 - 08 - 2018

Total Marks : 100

Time : 4.00 p.m. to 6.00 p.m.

- Instructions :**
- 1) All questions are compulsory.
 - 2) Each question carries 2 marks.
 - 3) Answers should be marked in the given OMR answer sheet by darkening the appropriate option.
 - 4) Use black ball point pen only for marking the circle. Do not make any stray mark on the OMR Answer Sheet.
 - 5) Follow the instructions given on OMR Sheet.
 - 6) Rough work shall be done on the sheet provided at the end of question paper.
 - 7) Only non programmable calculators are allowed.

- 1) A careful investigation or enquiry specially through search for new facts in any branch of knowledge is called_____
A) Research
B) Qualitative Research
C) Empirical Research
D) None of the above
- 2) _____ research includes surveys and fact finding enquiries of different kinds.
A) Descriptive vs Analytical
B) Applied vs Fundamental
C) Both A and B
D) Quantitative vs Qualitative
- 3) Quantitative research is based on measurement of _____
A) Quantity
B) Amount
C) Quantity or Amount
D) None of the above
- 4) _____ is way to systematically solve the research problems.
A) Research methodology
B) Research aptitude
C) Scientific method
D) Research process

- 5) Scientific research is a _____ Procedure.
- A) Systematic and controlled B) Systematic and uncontrolled
C) Both A and B D) None of the above
- 6) _____ studies deal with collecting data and testing hypothesis or answering questions concerning the current status of the subject of study.
- A) Descriptive research B) Analytical research
C) Systematic research D) All the above
- 7) The term 'data processing error' refers to_____
- A) Activities or events related to the sampling process, e.g. non-response
B) Faulty techniques of coding and managing data
C) Problems with the implementation of the research process
D) The unavoidable discrepancy between the sample and the population.
- 8) In the electron microscopy, a technique in which the specimen is coated with gold palladium or platinum is called as:
- A) Plating B) Shadow casting
C) Electro plating D) All of the above
- 9) Commonly used radioisotope for radio labeling antibodies is:
- A) ^{14}N B) ^{125}I
C) ^{126}I D) ^{14}C
- 10) Immunoprecipitation occurs, when_____.
- A) Antibody is in excess
B) Antigen is in excess
C) Insoluble antigen-antibody lattice is formed at equivalence point
D) Antigen is less
- 11) Which of the following separation method is suited method for a protein sample with large differences in molecular mass_____
- A) Dialysis B) Salting out process
C) Density gradient centrifugation D) Rate zonal centrifugation

- 35) Which of the following is largest endocrine gland?
 A) Thyroid
 B) Parathyroid
 C) Pancreas
 D) Adrenal
- 36) In DNA molecule _____ mathematical equation is found correct.
 A) Nucleoside=Deoxyribose+Nitrogenous base
 B) Nucleoside=Deoxyribose+hydroxyl molecule+phosphate
 C) Nucleotide=Deoxyribose+Pyrimidines+Hydrogen
 D) Nucleotide=Deoxyribose+Nitrogenous base+phosphate
- 37) Glucosamine is _____
 A) Glycosides
 B) Amino sugar
 C) Sugar phosphate
 D) None of above
- 38) Which is the best suiting species for bee culture?
 A) *Apis dorsata*
 B) *Apis florea*
 C) *Apis indica*
 D) *Milipona sp.*
- 39) The grasshopper possesses:
 A) Natatorial legs
 B) Foragiallegs
 C) Saltatorial legs
 D) Ambulatorial legs
- 40) Which of the following theory of antibody production is most widely accepted?
 A) Side chain theory
 B) Clonal selection theory
 C) Direct template theory
 D) Indirect template theory
- 41) In the Analysis of Variance procedure (ANOVA), *factor* refers to _____
 A) The dependent variable
 B) The independent variable
 C) Different levels of treatment
 D) The critical value of F
- 42) Two intermediate hosts are required for completing the life cycle in _____
 A) *Taeniasolium*
 B) *Fasciola hepatica*
 C) *Wuchereriabancrofti*
 D) *Diphyllobothriumlatum*
- 43) The vector of “infantile paralysis” in horses is
 A) Horse fly
 B) Stable fly
 C) Warble fly
 D) Horse Ked

Rough Work