

Seat No.	
-------------	--

M.Phil/Ph.D. Entrance (Special Drive) Examination, May - 2019
ZOOLOGY

Day and Date : Tuesday, 21 - 05 - 2019**Total Marks : 100****Time : 04.00 p.m. to 06.00 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) Which of the following is not true about e journals?

- A) They are distributed through digital methods
- B) They also have editors or editorial boards
- C) They are publications of serial nature
- D) They are always free of cost

2) Why is it important for researcher to review literature?

- A) Because it shows how much time has been spent on the subject
- B) Because it identifies like-minded researchers
- C) Because it is traditional
- D) Because it will find if anyone has done the work before.

- 3) The population Census carried out by Government of India can be an example of;
- A) Exploratory Research B) Causal Research
C) Descriptive Research D) All the above
- 4) The main advantage of the research paper is:
- A) To communicate the research work carried out by the researcher.
B) To put the results for wider criticism or approval
C) To modify the process if there is discrepancy in it
D) All the above
- 5) Complete this sentence. A hypothesis is _____
- A) The methodical evaluation of research evidence
B) A statement which serves as the basis for further investigation
C) A statement of the aims of an investigation.
D) All of these.
- 6) _____ is the determination of the plan for conducting the research and as such it involves the specification of approaches and procedures.
- A) Strategy B) Research design
C) Hypothesis D) Deductive
- 7) In electron microscope _____ lenses are used as a source of illumination.
- A) Glass B) Electromagnetic
C) Electronic D) All of the above

M/P ENT – 10

- 8) Frederick Zernike was awarded Noble prize in Physics in the year 1953 for the discovery of _____ microscope.
- A) Compound
B) Fluorescence
C) Electron
D) Phase contrast
- 9) The entire set up in electron microscope is placed in a vaccum tube, because _____
- A) electron moves straight only in vaccum
B) it increases magnification
C) it nullifies errors
D) all the above
- 10) In the equation $T = I/I_0$, 100% value of T represents _____
- A) Totally transparent substance
B) Transparent substance
C) Opaque substance
D) Totally opaque substance
- 11) Immunoprecipitation occurs only when _____.
- A) Antibody excess
B) Antigen excess
C) Insoluble antigen-antibody lattice is formed at equivalence point
D) Antigen less
- 12) In an inverted phase contrast microscope, the light source and the condenser are at the top and the objectives are below the stage because _____.
- A) This arrangement gives ample space for the observation of all sizes of culture.
B) Give better resolution
C) Gives better view of cells
D) Magnification of microscope increases

13) Fluorochrome tetramethylrhodamine emit _____

- A) blue light
- B) green light
- C) red light
- D) visible light

14) Conclusions without any basis or value judgment are

- A) objectivity
- B) specificity
- C) values
- D) facts

15) Information analysis and critical evaluation is made in:

- A) survey
- B) action research
- C) analytical research
- D) pilot study

16) A short summary of technical report is called as:

- A) article
- B) research abstract
- C) publication
- D) guide

17) Questions which seek information is called as:

- A) factual question
- B) opinion questions
- C) hypothetical question
- D) marginal question

18) A member of population is called as:

- A) element
- B) census
- C) sample
- D) group

M/P ENT – 10

- 19) Assessing numbers or symbols to the categories or response are called:
- A) editing
 - B) coding
 - C) transcription
 - D) tabulation
- 20) Which of the following idea is not associated with the stance of situations ethics?
- A) Principal relativism
 - B) The end justifies the means
 - C) Anything goes
 - D) No choice
- 21) _____ is essentially a procedure for testing the difference among different groups of data for homogeneity
- A) ANOVA
 - B) Chi- square test
 - C) Regression equation
 - D) Co-relation coefficient
- 22) Which method is commonly associated with lack of informed consent?
- A) In depth interview
 - B) Qualitative content analysis
 - C) Covert observations
 - D) All the above
- 23) The split half method is used as test of _____
- A) Stability
 - B) internal reliability
 - C) internal observer consistency
 - D) External validity.
- 24) Which of the following is not the form of measurement validity _____
- A) Concurrent validity
 - B) Face validity
 - C) Constructive validity
 - D) Convergent validity

- 25) In the research structured observation does not include _____
- A) Facal sampling
 - B) Scan sampling
 - C) Emotional sampling
 - D) Behaviour sampling
- 26) The parasite that lives in vagina and Bartholin glands of females is
- A) *Enterobiusvermicularis*
 - B) *Strengyloidesstercolaris*
 - C) *Trichomonas*
 - D) *Ancylostomaduodenalis*
- 27) Dry itch in humans is caused by
- A) *Ancylostomaduodenale*
 - B) *Taeniasolium*
 - C) *Enterobiusvermicularis*
 - D) *Wuchereriabancrofti*
- 28) Pipe stem liver in the animals infected with liver fluke is due to
- A) Hyperplasia
 - B) Hypertrophy
 - C) Metaplasia
 - D) Neoplasia
- 29) The conservation of plants and animals in their natural habitat is called _____ conservation.
- A) In- situ
 - B) Biological
 - C) Ex-situ
 - D) Natural

- 30) The main cause of loss of biodiversity is _____
- A) Population
 - B) Deforestation
 - C) UV radiation
 - D) Habitat destruction
- 31) When new species evolves as a result of partial geographical isolation as a result of occupying a new or different niche this type of speciation is known as _____ speciation.
- A) Sympatric
 - B) Biospecies
 - C) Parapatric
 - D) Evolution
- 32) Which of the following is major cause of pollution?
- A) plants
 - B) man
 - C) fungi
 - D) hydrocarbon gases
- 33) Minamata disease was caused by pollution of water by:
- A) mercury
 - B) lead
 - C) tin
 - D) methyl isocyanides
- 34) BOD stands for
- A) Biotic Oxidation Demand
 - B) Biological Oxidation Demand
 - C) Biological Oxygen Demand
 - D) Biochemical Oxygen Demand

- 35)** In blood coagulation factor 13th is _____ factor.
- A) Sturt
 - B) Antihæmophilic globulin
 - C) Fibrin stabilizing
 - D) Fibrinogen
- 36)** Normal ECG dose not presents _____
- A) Auricular contraction
 - B) Auricular relaxation
 - C) Ventricular contraction
 - D) Ventricular relaxation
- 37)** Aquatic animals usually excrete _____ directly into the external environment
- A) Ammonia
 - B) Urea
 - C) Uric Acid
 - D) All the above
- 38)** The Hormone _____ is the C19 steroid
- A) Estriol
 - B) progesterone
 - C) Androsterone
 - D) Estrone
- 39)** Which of the following is/are unsaturated fatty acids:
- A) Linoleic acid
 - B) Oleic acid
 - C) Palmitoleic acid
 - D) All of these

Rough Work

Rough Work