

Seat No.	
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M.Phil./Ph.D. Entrance Examination, May - 2019**PHARMACY****Day and Date : Tuesday, 21 - 05 - 2019****Total Marks : 100****Time : 10.00 a.m. to 12.00 noon**

- 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) Research related to abstract ideas or concepts is
 - A) Empirical research
 - B) Conceptual research
 - C) Quantitative research
 - D) Qualitative research

- 2) Parametric test, unlike the non-parametric tests, make certain assumptions about
 - A) The population size
 - B) The underlying distribution
 - C) The sample size
 - D) None of the above

- 3) What is an effect size?
 - A) the magnitude of the relationship between variables
 - B) The likelihood of type 1 and type 2 errors
 - C) the number of expected cases
 - D) the variance explained by the measures

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- 4) You obtained a significant test statistic when comparing three treatments in a one-way ANOVA. In words, how would you interpret the alternative hypothesis H_A ?
- A) All three treatments have different effects on the mean response.
 - B) Exactly two of the three treatments have the same effect on the mean response.
 - C) At least two treatments are different from each other in terms of their effect on the mean response.
 - D) All of the above
- 5) In Testing the statistical hypothesis, which of the following statement is false
- A) The critical region is the values of the test statistic for which we reject null hypothesis.
 - B) The level of significance is the probability of type I error
 - C) The p-value measures the probability that the null hypothesis is true
 - D) None of the above
- 6) A tentative proposition subject to test is
- A) Variable
 - B) Hypothesis
 - C) Data
 - D) Concept
- 7) _____ which deals with the techniques by which the procedures specified in the sampling, statistical and observational designs can be carried out.
- A) Statistical design
 - B) Observational design
 - C) Operational design
 - D) Sampling design

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- 18) A systematic, controlled, empirical and critical investigation of natural phenomena guided by theory and hypothesis is called _____.
- A) Applied Research
 - B) Basic Research
 - C) Scientific Research
 - D) None of the above
- 19) The first step in the research process is the:
- A) Development of the research plan
 - B) Survey of stakeholders to determine if problems exist
 - C) Collection of the available sources for needed information
 - D) Definition of the problem and research objectives
- 20) The starting point for a literature search is:
- A) Tertiary data
 - B) Primary data
 - C) Secondary data
 - D) Some other data
- 21) Research is
- A) Searching again and again
 - B) Finding solution to any problem
 - C) Working in a scientific way to search for truth of any problem
 - D) None of the above

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- 22) Type of sampling in which each element of population has equally likely chance of occurrence in a random sample is classified as
- A) Regular and irregular sampling B) Error free sampling
C) Inertia sampling D) Simple random sampling
- 23) In testing a Hypothesis the common error is
- A) Type I B) Type I and II
C) Type II D) None of these
- 24) The final research report is NOT:
- A) A research proposal
B) A basis for decision making
C) Tangible evidence of a research project
D) Future secondary data
- 25) Which proposal section is intended to describe the purpose with a full statement of the research question?
- A) Literature review B) Introduction
C) Proposed Method D) References
- 26) How much minutes is a disintegration time for sublingual tablets?
- A) 2 B) 15
C) 30 D) 60

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- 27) Pharmacy Practice Regulation 2015 (Government of India) has made a following provision for registered pharmacist.
- A) Prescribe the medicines in absence of doctors
 - B) Charge his professional consultation fees
 - C) Sale all generic medicines without prescription to needy patients
 - D) Start pathology laboratory in pharmacy
- 28) If chloroquine is having 1500 liters of apparent volume of distribution, then which of the following interpretation is true
- A) High degree of protein binding
 - B) Extensive distribution in total body water
 - C) Extensive distribution in the body fat
 - D) Deposition in the brain
- 29) Which of the following category of drug can be formulated in to sustained release dosage form?
- A) Having absorption as rate limiting step
 - B) Actively absorbed from GIT
 - C) Having biological half life 2-6 hrs
 - D) Having dissolution as rate limiting step
- 30) Which of the following grade of Eudragit is preferred in formulation of enteric coated formulations?
- A) Eudragit S
 - B) Eudragit L
 - C) Eudragit RS
 - D) Eudragit RL

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- 31) The process of purification and recovery of a product in biotechnology is known as
- A) Upstream processing B) Downstream processing
C) Incubation D) Formulation
- 32) Which of the following machine is useful in the filling of powdered dry solids in soft gelatin shell?
- A) ZANSI B) ACOGEL
C) ROTOFILL D) ROTOSORT
- 33) Dilatent materials follow which type of behavior?
- A) Shear thinning B) Shear thickening
C) Thixotropic D) Rheopexic
- 34) A 43-year-old man has abnormal liver function tests noted at a routine work related medical checkup. He has a history of angina. Which of the following drug is most likely to be responsible?
- A) Atorvastatin B) Amlodipine
C) Aspirin D) Atenolol
- 35) Which of the following cytochrome P450 isoenzymes is involved in the metabolism of largest number of drugs in human beings and has been implicated in some dangerous drug interactions?
- A) CYP 3A4 B) CYP 2C9
C) CYP 2E1 D) CYP 1A2

Rough Work