



GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT (GITAM)

(Deemed to be University)

(Estd. u/s 3 of the UGC Act, 1956), NAAC Accredited with 'A+' Grade
Visakhapatnam | Hyderabad | Bengaluru

GITAM Institute of Pharmacy

PhD Entrance Test 2020-21

Model-Question paper

Duration: 2 hours

Max Marks: 140

Note : This is a sample paper. The main examination paper will be online and consists of 35 questions each in section A and section B

Section A: Research Methodology

1. What may not be considered as a good research objective if
 - a. Presented briefly and concisely
 - b. Presented logically
 - c. Restrictions in the use of action verbs
 - d. All the above
2. Preliminary data collection is a part of
 - a. Descriptive research
 - b. Applied research
 - c. Explanatory research
 - d. Exploratory research
3. A literature review requires
 - a. Planning
 - b. Good writing
 - c. Lot of re-writing
 - d. All the above
4. The mean of a distribution is 14 and standard deviation is 5. What is the value of co-efficient of variation?
 - a. 60.4%
 - b. 48.3%
 - c. 35.7%
 - d. 27.8%
5. 25 children are chosen randomly from a school ground. Their heights are measured when they come into school the next morning and again just before they go home in the evening. What statistical test could be used to test the hypothesis that their morning heights are no different from their evening heights.
 - a. Paired t-test
 - b. Z-test
 - c. Unpaired t-test
 - d. Regression

6. Plagiarism can be avoided by
- Copying the work of others accurately
 - Paraphrasing the author's text in your own words
 - Cut and pasting from the Internet
 - Quoting directly without revealing the source
7. If you file provisional specification, the complete specification is required to be filed within
- 10 months
 - 12 months
 - 18 months
 - 24 months
8. The factorial design provides an opportunity to study the _____ of two treatment variables
- Joined effect
 - Combined effect
 - Interaction effect
 - Separate effect
9. When referencing other works you have cited within the text of the report you should
- State the first and last name of the author
 - Use the author, date citation method
 - Use an asterisk and a footnote
 - Insert the complete citation in parenthesis.
10. The abstract should be about how many words?
- 50
 - 75
 - 120
 - 300

Section B: Pharmaceutical Analysis

1. Chromatography is a physical method that is used to separate and analyze _____
- Simple Mixtures
 - Complex Mixtures
 - Viscous Mixtures
 - Metals
2. In chromatography, which of the following can the mobile phase be made of ?
- Solid or Gas
 - Liquid or Gas
 - Gas Only
 - Liquid Only
3. Which of the following cannot be used as adsorbent in column adsorption Chromatography?
- Magnesium Oxide
 - Silica Gel
 - Activated Alumina
 - Potassium Permanganate

4. Pattern on paper in chromatography is called _____
- Chroming
 - Chroma
 - Chromatograph
 - Chromatogram
5. Mobile phase in chromatography can be _____
- Gas or Liquid
 - Solid or Liquid
 - Only Solid
 - Only Gas
6. Syringe pumps used in HPLC are most suitable for which of the following columns?
- Capillary Columns
 - Guard Columns
 - Short – Fast Column
 - Small Bore Columns
7. Which of the following is the disadvantage of hydrogen, which can be used as carrier gas in GC?
- Dangerous To Use
 - Expensive
 - Reduced Sensitivity
 - High Density
8. Which of the following is the commonly used support material for the packed column in GC?
- Glass
 - Metal
 - Diatomaceous earth
 - Stainless Steel
9. Which of the following are considered to be the lowest form of Electromagnetic Radiation?
- IR Radiation
 - Micro Waves
 - UV Radiation
 - Radio Waves
10. Who discovered the mass spectrometer
- Francis Aston
 - J.J. Thomson
 - Ernest O. Lawrence
 - Walter Kaufmann