



# 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 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 Chemistry

1. Which of the following pairs of compounds are tautomers ?
- Vinyl alcohol and ethanal
  - 1-Propanol and 2-propanol
  - Ethanol and vinyl alcohol
  - Propanol and propanone
2. The functional isomers of ethers are \_\_\_\_\_
- Esters
  - Alcohols
  - Aldehydes
  - Ketones
3. The epimers of glucose is \_\_\_\_\_
- Fructose
  - Deoxyribose
  - Ribose
  - Galactose

4. The sugar found in DNA is \_\_\_\_\_
- Deoxyribose
  - Ribose
  - Xylose
  - Ribulose
5. What is the target of ACTH?
- Thyroid gland
  - Adrenal cortex
  - Most cells
  - Mammary glands
6. What is another name for thyroxine?
- Tetraiodothyronine
  - Thymus
  - Thyroid
  - Triiodothyronine
7. Which of the following is an ethylene diamine antihistaminic drug
- Diphenhydramine
  - Buclazine
  - Promethazine
  - Mepyramine
8. Dipyridamole an antiplatelet agent contains \_\_\_\_\_ heterocyclic system
- Pyrimido[2,4-d]pyrimidine
  - Pyrimido[3,4-d]pyrimidine
  - Pyrimido[4,4-d]pyrimidine
  - Pyrimido[5,4-d]pyrimidine
9. Find out the following local anaesthetic fit to P-Amino benzoic acid derivative
- Piperocaine
  - Tetracaine
  - Cocaine
  - Lidocaine
10. Which of the following is a quinolone containing local anaesthetic
- Lidocaine
  - Procaine
  - Quinocaine
  - Dibucaine