

July - 2026

BLDE (DEEMED TO BE UNIVERSITY)

Pre – Ph.D. Course Work Examination

[Time: 1 ½ Hours]

[Max Marks: 50]

Paper I: RESEARCH METHODOLOGY

QP CODE – 6007

I. Answer ANY TWO of the following

2 x 10 = 20 Marks

1. Enumerate the different methods of collecting data. Examine the merits of observation methods in collecting data.
2. What are the principles of writing good research report? Explain its layout. What are the different types of Research report?
3. Write briefly about ethics in medical research.

II. Answer ANY FOUR of the following

4 x 5 = 20 Marks

4. Briefly describe the different steps involved in a research process.
5. Measures of Central tendency.
6. Chi square Test.
7. Discuss the importance of presentation skills in an oral presentation.
8. Explain the limitations and sources of errors in research

III. Answer the following

5 x 2 = 10 Marks

9. What is feasibility report?
10. Define variable.
11. What is Bibliography?
12. What is feasibility report?
13. Define Sample in research.

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Pre – Ph.D. Course Work Examination

Paper II: BACKGROUND PAPER (Community Medicine)

QP CODE – 6018

I. Answer ANY TWO of the following

2 x 10 = 20 Marks

1. Multispectral strategies in prevention of Tuberculosis.
2. World TB Day 2024 Theme.
3. Critical evaluation of NTEP.

II. Answer ANY FOUR of the following

4 x 5 = 20 Marks

4. Epidemiology of Tuberculosis in India.
5. TB free work place initiative.
6. Nikshay Poshan Yojana.
7. Microbiological investigation of Tuberculosis.
8. MDR Tuberculosis.

III. Answer the following

5 x 2 = 10 Marks

9. DOTS.
10. Barriers & Challenges in implementing TB free Work place.
11. CBNAAT.
12. Qualitative studies.
13. Social pathology in Tuberculosis.

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Max Marks: 50

Pre – Ph.D. Course Work Examination

Paper II: BACKGROUND PAPER (Biotechnology)

QP CODE – 6022 (S & T)

I. Answer ANY TWO of the following **2 x 10 = 20 Marks**

1. Describe the role of immune checkpoints in cancer immunotherapy, with special emphasis on the PD-1/PD-L1 axis.
2. Explain the mechanisms by which lncRNAs regulate transcriptional, post-transcriptional, and epigenetic processes in cancer.
3. Discuss the significance of integrating transcriptomic, immunological, and clinical data for developing predictive biomarkers in cancer patients.

II. Answer ANY FOUR of the following **4 x 5 = 20 Marks**

4. Explain the mechanisms leading to T-cell exhaustion in chronic antigen exposure.
5. Describe the structure and biological characteristics of long non-coding RNAs.
6. Discuss the applications of flow cytometry in T-cell phenotyping.
7. Write a short note on tumor microenvironment-mediated immune suppression.
8. Explain the principles and applications of machine learning in biomarker discovery.

III. Answer the following **5 x 2 = 10 Marks**

9. Define immune checkpoint inhibitors.
10. What is PD-L1?
11. What is RNA sequencing (RNA-seq)?
12. Name two markers of exhausted T cells.
13. What is a liquid biopsy?

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Pre – Ph.D. Course Work Examination

Paper II: BACKGROUND PAPER (Library & Information Science)

QP CODE – 6022 (S & T)

I. Answer ANY TWO of the following

2 x 10 = 20 Marks

1. Discuss major Scientometric Indicators such as H-Index, Citation Count, Collaboration Index, and Impact Factor.
2. Analyze the Contribution of Higher Education Institutions toward achieving SDGs through Health Care Education.
3. Explain the Methodology for conducting a Scientometric study using Scopus Data.

II. Answer ANY FOUR of the following

4 x 5 = 20 Marks

4. Explain the role of SDGs in Curriculum Development for Health Care Education.
5. Discuss Keyword Co-occurrence Analysis and its Significance.
6. Describe the role of SDG 3 (Good Health and Well-being) in Health Care Education.
7. Write a short note on Research Productivity and Research Impact.
8. Explain the importance of Open-Access Publications in SDG Research.

III. Answer the following

5 x 2 = 10 Marks

9. What is an H-index?
10. What is Bibliographic Coupling?
11. What is Biblioshiny?
12. Expand SDGs.
13. What is Research Collaboration?

4/7/21
AM

BLDE (DEEMED TO BE UNIVERSITY)

Pre-Ph.D. Course Work Examination

Time: 1 ½ Hours

Max Marks: 50

Paper III: COMPULSORY/CORE PAPER (RESEARCH AND PUBLICATION ETHICS)

QP CODE – 6009

I. Answer ANY TWO of the following

(2 × 10 = 20 Marks)

1. Explain peer review process. Discuss its merits and limitations.
2. Discuss plagiarism in detail. Explain five common methods to prevent plagiarism.
3. What is research transparency? Describe its importance in reproducibility of science.

II. Answer ANY FOUR of the following

(4 × 5 = 20 Marks)

4. Explain scientific misconduct with examples.
5. Role of Institutional Ethics Committee (IEC).
6. Define and discuss citation databases.
7. What are retracted articles? Why are they important in research?
8. Importance of copyright and licensing in publication.

III. Answer the following

(5 × 2 = 10 Marks)

9. What is authorship criteria in research?
10. Define conflict of interest in publication.
11. What is H-index?
12. Expand and explain ORCID.
13. What is PubMed?

11/2/26
AM

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences

[Time: 3 Hours]

[Max. Marks: 80]

I SEMESTER

PAPER - I (Anatomy - I)

QP CODE: (8125, 8130, 8135, 8140, 8145, 8150, 8155, 8160, 8165, 8170)

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Describe the shoulder joint under the following headings: articular surfaces, ligaments, relations and movements.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Fibrous joints
3. Cubital fossa boundaries and contents
4. Epiphysis
5. Bronchopulmonary segments
6. Histology of lymph node
7. Posterior triangle of neck
8. Write the external features of tongue. Which nerves supply the tongue?
9. Name the extraocular muscles. What are their actions
10. Deltoid muscle

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Name the branches from the axillary artery
12. Name the contents of middle mediastinum
13. Sternal angle and its importance
14. Recesses of pleura
15. Histology of skeletal muscle
16. Name the branches from the right coronary artery
17. Name the muscles of mastication
18. Name the cartilages of larynx
19. Name the branches of external carotid artery
20. What are the parts of the rib? Name the true and false ribs.
21. Name the paranasal air sinuses. Where do they open?