



## BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(MRIT)-2022/B.Sc.(MRIT)-2023/B.Sc.(MRIT)-2024

Course Name – Introduction to National Healthcare system & Medical Laboratory  
Sciences

Course Code - BMRITC103

( Semester I )

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

### Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Identify the approach on which models of health in primary care are based ?
  - a) Behavioural
  - b) Economic
  - c) Social
  - d) Education
- (ii) Identify the factor which is not included in epidemiological triad model ?
  - a) Agent
  - b) Host
  - c) Time
  - d) Environment
- (iii) Choose Carcinogens are substances related with ?
  - a) Cancer
  - b) Genetic disease
  - c) Lung disease
  - d) Liver disease
- (iv) Choose the correct answer from the following statements ?
  - a) A reservoir of an infectious agent can be an asymptomatic human
  - b) A reservoir of an infectious agent can be the environment
  - c) A reservoir of an infectious agent can be the National Nutritional Programs
  - d) A reservoir of an infectious agent can be the Programs for AYUSH
- (v) Choose the operation associated with the Pulse Polio Immunization program in India ?
  - a) Operation Heartbeat
  - b) Operation Polio-Free
  - c) Operation Lifeline
  - d) Operation Immunize
- (vi) Identify Which Ayush system of medicine focuses on balancing the body's doshas?
  - a) Ayurveda
  - b) Yoga
  - c) Naturopathy
  - d) Unani
- (vii) Select Which Ayush system relies heavily on breathing exercises and meditation for health and wellness?
  - a) Ayurveda
  - b) Yoga
  - c) Naturopathy
  - d) Unani

- (viii) Choose the three doshas in Ayurveda that regulate the body's constitution ?  
 a) Vata, Pitta, Kapha  
 b) Yin, Yang, Qi  
 c) Hot, Cold, Neutral  
 d) Acidic, Alkaline, Neutral
- (ix) Identify in Which Ayush system utilizes a holistic approach to healing by considering the physical, mental, and spiritual aspects of health?  
 a) Yoga  
 b) Naturopathy  
 c) Siddha  
 d) Homeopathy
- (x) Select Which of the following is NOT a type of bacteria?  
 a) E. coli  
 b) Salmonella  
 c) Candida  
 d) Streptococcus
- (xi) Select What is the main function of the Gram stain in microbiology?  
 a) Determine bacterial shape  
 b) Identify bacterial species  
 c) Assess bacterial motility  
 d) Classify bacteria into Gram-positive and Gram-negative
- (xii) Identify Which of the following is not a common mode of transmission for communicable diseases?  
 a) Airborne  
 b) Vector-borne  
 c) Genetic  
 d) Waterborne
- (xiii) Tell which disease is communicable?  
 a) AIDS  
 b) CANCER  
 c) Osteoporosis  
 d) ulcer
- (xiv) Select What is the primary purpose of immunization?  
 a) To cure infectious diseases  
 b) To treat chronic illnesses  
 c) To prevent infectious diseases  
 d) To promote healthy eating habits
- (xv) Select What is the first stage in the natural history of disease?  
 a) Preclinical  
 b) Clinical  
 c) Chronic  
 d) Terminal

#### Group-B

(Short Answer Type Questions)  
(Answer any Five from the following)

3 x 5=15

2. Write a short note on Sickle Cell Anemia ? (3)
3. Define the composition of Blood and its function blood? (3)
4. Explain the basic principle of AYURVEDA? (3)
5. Explain the difference between pathogenic and non-pathogenic bacteria. (3)
6. Explain the role of Medical clinical Laboratory science in Health Care? (3)

OR

Differentiate between Histology and Histopathology ? (3)

#### Group-C

(Long Answer Type Questions)  
(Answer any Six from the following)

5 x 6=30

7. Describe various methods of Sterilization ? (5)
8. Describe AYUSH and different branches of AYUSH ? (5)
9. Define primary health care and primary care ? (5)
10. Write a note on the three components of the epidemiological triad ? (5)
11. Write a note on immunization ? (5)
12. Define What should be maintained in laboratory in order to confirm Bio-safety in Bio-safety (5)  
in Histopathology ?

OR

Explain What should be maintained in laboratory in order to confirm the Bio-safety in Bio- (5)  
safety in Hematology ?

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