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Reg. No. : .....

Code No. : 30726 E      Sub. Code : ESMI 11/  
FSMI 11

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2025.

First Semester

Microbiology – Skill Based

SEC – SOCIAL AND PREVENTIVE MEDICINE

(For those who joined in July 2023 onwards)

Time : Three hours      Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Access to clean water and sanitation is an example of which type of determinant?
  - (a) Economic
  - (b) Environmental
  - (c) Social
  - (d) Biological

2. Which of the following is not a commonly used measure of population health?
  - (a) Life expectancy
  - (b) Infant mortality rate
  - (c) Stock market index
  - (d) Prevalence of diseases
3. What is the role of psychology in health management?
  - (a) To diagnose diseases
  - (b) To promote mental health and well-being
  - (c) To perform surgical operations
  - (d) To prescribe medication
4. Which of the following is a primary objective of the National Nutrition Mission?
  - (a) Improve sanitation facilities
  - (b) Reduce the prevalence of anemia among women and children
  - (c) Provide free health care to the elderly
  - (d) Increase agricultural productivity

5. Which of the following is an effective method of communication in health education?
- (a) Complex medical journals
  - (b) Interactive workshops
  - (c) Academic conferences
  - (d) Legal documents
6. Which of the following is a key indicator of maternal health?
- (a) Infant birth weight
  - (b) Maternal mortality rate
  - (c) Average family size
  - (d) Childhood obesity rate
7. What does primary prevention focus on?
- (a) Early detection of disease
  - (b) Rehabilitation after illness
  - (c) Preventing the onset of disease
  - (d) Reducing complications of an existing disease
8. Which of the following is a method used for disease outbreak detection?
- (a) Random population sampling
  - (b) Syndromic surveillance
  - (c) Genomic analysis
  - (d) Hospital based surveys

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9. Which of the following practices is common across Ayurveda, Unani and Naturopathy for preventing diseases during outbreaks?
- (a) Herbal supplements
  - (b) Antibiotics
  - (c) Chemotherapy
  - (d) Radiation therapy
10. When were the International Health Regulations (IHR) last revised?
- (a) 1981
  - (b) 1995
  - (c) 2005
  - (d) 2010

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).  
Each answer should not exceed 250 words.

11. (a) What is social medicine, and how is it important in the context of public health?

Or

- (b) List three social determinants of health and briefly explain their impact on health outcomes.

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12. (a) Discuss the impact of psychological stress on physical Health.

Or

- (b) Explain the importance of clean water in preventing communicable diseases.

13. (a) What are the main objectives of health education in communities?

Or

- (b) Discuss the significance of family planning services in maternal and child health.

14. (a) Define preventive medicine and explain its primary objectives.

Or

- (b) What is the role of surveillance in preventive medicine?

15. (a) Describe the basic principles of Unani medicine and its approach to preventing infectious diseases.

Or

- (b) Briefly explain the precautionary measures taken during the SARS outbreak.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)  
Each answer should not exceed 600 words.

16. (a) Discuss how the concept of health has evolved overtime and its implications of health care delivery.

Or

- (b) Explain the importance of measuring population health and challenges associated with different health indicators.

17. (a) Evaluate the role of nutritional programs in the management and prevention of communicable diseases with examples.

Or

- (b) Explore the impact of environmental hazards on human health and discuss strategies for control and prevention.

18. (a) Discuss the importance and role of community participation in improving health care services.

Or

- (b) Evaluate the impact of aging populations in health care systems.

19. (a) Compare and contrast the three levels of prevention with suitable example for each.

Or

- (b) Explain how forecasting models are developed and utilized in preventive medicine to control disease outbreaks.
20. (a) Discuss the role of Ayurveda in boosting immunity and its effectiveness during the Covid 19 pandemic.

Or

- (b) Explain about the International Health Regulations (IHR) and their impact on global health security, citing examples from recent pandemics.
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