

Reg. No. :

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Question Paper Code : 91525

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2025

Seventh Semester

Civil Engineering

OBT 356 – LIFESTYLE DISEASES

Common to: Aeronautical Engineering/Aerospace Engineering/Automobile Engineering/Biomedical Engineering/Computer Science and Design/Computer Science and Engineering/Computer Science and Engineering (Artificial Intelligence and Machine Learning)/Computer Science and Engineering (Cyber Security)/Computer and Communication Engineering/Electrical and Electronics Engineering/Electronics and Communication Engineering/Electronics and Instrumentation Engineering/Electronics and Telecommunication Engineering/Environmental Engineering/Geoinformatics Engineering/Industrial Engineering/Industrial Engineering and Management/Instrumentation and Control Engineering/Manufacturing Engineering/Marine Engineering/Materials Science and Engineering/Mechanical Engineering/Mechanical and Automation Engineering/Mechatronics Engineering/Medical Electronics/Petrochemical Engineering/Production Engineering/Robotics and Automation/Safety and Fire Engineering/Agricultural Engineering/Artificial Intelligence and Data Science/Chemical Engineering/Chemical and Electrochemical Engineering/Computer Science and Business Systems/Fashion Technology/Food Technology/Handloom and Textile Technology/Information Technology/Petrochemical Technology/Petroleum Engineering/Pharmaceutical Technology/Plastic Technology/Textile Chemistry/Textile Technology)

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define lifestyle diseases.
2. List any two risk factors for obesity.
3. What is the main cause of skin cancer?
4. Name two biomarkers used in cancer diagnosis.
5. What is coronary artery disease?
6. Mention two causes of atherosclerosis.

7. What are the complications of diabetes mellitus?
8. How is BMI used to assess obesity?
9. What is pulmonary function testing?
10. List two causes of chronic lung disease.

PART B — (5 × 13 = 65 marks)

11. (a) Relate the role of diet and exercise in preventing lifestyle diseases.

Or

- (b) Examine the impact of smoking on cardiovascular health.

12. (a) Determine the causes and diagnosis of cervical cancer.

Or

- (b) Classify the types of lung cancer and their causes.

13. (a) Interpret the causes and diagnosis of coronary artery disease.

Or

- (b) Recall the role of lipids in the development of atherosclerosis.

14. (a) Outline the process of blood glucose regulation in diabetes mellitus.

Or

- (b) Discuss the management of adolescent obesity.

15. (a) Summarize the causes and treatment options for asthma.

Or

- (b) Elaborate the impact of smoking on the development of COPD.

PART C — (1 × 15 = 15 marks)

16. (a) Analyze the relationship between stress and the development of lifestyle diseases.

Or

- (b) Explain the role of genetics and lifestyle in the development of obesity in children and adolescents. Suggest interventions for preventing and managing this condition.