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MANIPAL ACADEMY OF HIGHER EDUCATION

MDS PART - I (PROSTHODONTICS AND CROWN & BRIDGE) DEGREE EXAMINATION – MAY 2024

SUBJECT: PAPER I – APPLIED BASIC SCIENCES

Monday, May 06, 2024

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Draw diagrams and flow charts wherever appropriate.**

1. Define Obstructive sleep apnoea. Illustrate the associated clinical features. Explain in detail the diagnosis and treatment management. (2+2+6 = 10 marks)
2. Classify different speech sounds. Write a note on Palatography. Describe the prosthodontic implications in denture design affecting speech. (2+3+5 = 10 marks)
3. Describe the age changes related to Temporomandibular Joint. Outline the different Temporomandibular Joint Disorders and discuss the treatment plan in detail. (4+6 = 10 marks)
4. Write in brief on the storage, disposal, and management of Biomedical waste in a dental operatory. (2+4+4 = 10 marks)
5. What is colour replication? What are the phases of colour replication process? Explain each phase in detail. (2+2+6 = 10 marks)
6. Define Nutrition. Explain in detail the nutritional needs in an elderly population and the factors contributing to nutritional problems. (2+8 = 10 marks)
7. Describe in detail the recommended sterilization and disinfection procedures for materials used in Prosthodontics. (5+5 = 10 marks)
8. Define Residual ridge resorption (RRR). Explain the pathophysiology of RRR. Give the prosthetic management of RRR in detail. (2+2+6 = 10 marks)
9. Write a note on Muscles of mastication and its embryological development. Discuss the clinical consideration of each muscle. (4+2+4 = 10 marks)
10. What are different types of Research? Enumerate the procedural steps in conducting research. Write a note on Bias. (2+4+4 = 10 marks)

