

School of University Polytechnic**Diploma in Electrical Engineering
Semester End Examination - Jun 2024****Duration : 180 Minutes
Max Marks : 100****Sem II - N1DF101C - CHEM1014 - Basic Chemistry**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

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| 1) | Explain Chemical bonding with examples. | K1(2) |
| 2) | Summarize the various types of corrosion. | K2(4) |
| 3) | Explain Electrochemical series with suitable examples. | K2(6) |
| 4) | Utilize plum pudding model to explain the structure of atom . | K3(9) |
| 5) | Identify the Internal conditioning methods of boiler water to prevent scale formation | K3(9) |
| 6) | Expalin Aniline point of lubrcants in detail with suitable examples. | K5(10) |
| 7) | Analyze the hardness of water with different units and their corelation. | K4(12) |
| 8) | Explain quantum numbers in detail and find all values of different quantum numbers when $n = 3$. | K5(15) |
| 9) | Analyze about Oil paint, Vehicle, modified oils. | K5(15) |
| 10) | Discuss the Orbital diagram, bond order, stability & magnetic nature of oxygen molecule by using MOT. | K6(18) |