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**Reg. No. :**

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**Question Paper Code: 55P24**

Ph.D. COURSE WORK EXAMINATION, NOV 2019

Elective

CAD / CAM

15PCD524 - MATERIAL TESTING AND CHARACTERIZATION

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

1. (a) Write notes on optical microscopy. CO1- U (20)  
Or  
(b) Write notes on the microstructure of materials. CO1- U (20)
2. (a) Explain the debye and scherer camera technique used for analyzing structure properties. CO2- U (20)  
Or  
(b) What are the techniques used to analysis of diffraction patterns and explain. CO2- U (20)
3. (a) Explain various imaging techniques. CO3- U (20)  
Or  
(b) Explain various imaging techniques. CO3- U (20)
4. (a) Explain Brinell and Vickerstest with diagram. CO4- U (20)  
Or  
(b) Explain izod and charpy test. CO4- U (20)

5. (a) Write short note on crack growth studies. CO5- U (20)

Or

(b) What are the application of dynamic test and explain in detail. CO5- U (20)

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