

Code No: 156BX

**R18**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B. Tech III Year II Semester Examinations, February/March - 2022**

**MOBILE COMMUNICATIONS AND NETWORKS**

**(Electronics and Communication Engineering)**

**Time: 3 Hours**

**Max. Marks: 75**

**Answer any five questions**

**All questions carry equal marks**

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1. Discuss desired C/I from a normal case in a Omni directional Antenna System with relevant mathematical expressions. [15]
2. Compare and explain various diversity techniques. [15]
3. Explain the effects on coverage and interference by power and antenna height decrease. [15]
4. Explain the channel assignment to cell sites and travelling mobile units. [15]
5. Explain the evaluation of dropped calls. [15]
6. Discuss mobile assisted and soft handoffs in detail. [15]
7. Classify and explain the MAC protocols for wireless ad hoc networks. [15]
8. Discuss the uses and applications of ad hoc networks. [15]

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