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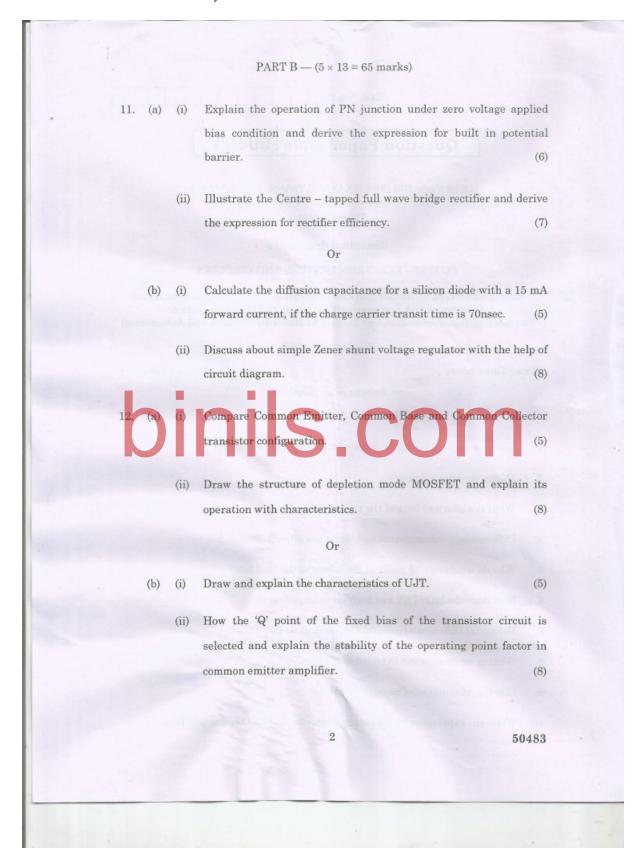
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Reg. No.: Question Paper Code: 50483 B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023 Third Semester Biomedical Engineering EC 8353 - ELECTRON DEVICES AND CIRCUITS (Common to: B.E. Computer and Communication Engineering/Electrical and Electronics and Engineering/Electronics and Instrumentation Engineering/Instrumentation and Control Engineering/Robotics and Automation) (Regulations 2017) Time: Three hours Maximum: 100 marks Answer ALL questions. Define rectifier efficiency. What is alpha and beta of the transistor? Differentiate enhancement and depletion MOSFET. Why do we choose 'Q' point at the center of the load line? 5. 6. How does the MOSFET has high input impedance? Define (a) Differential gain (b) Common mode gain 7. What is neutralization in tuned amplifiers? 8. List the advantages of negative feedback 10. Write the expression for frequency of oscillation of a Colpitts oscillator.

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