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| AG                           | JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERA B. Tech III Year I Semester Examinations, November/December - 2017 COMPUTER ORGANIZATION AND OPERATING SYSTEMS (Common to EGE, ETM) Max. Max. Max. Max. Max. Max. Max. Max.  |  | · /      |
| Note                         | Part A is compulsory which carries 25 marks. Answer all questions in Part consists of 5 Units. Answer any one full question from each unit. Each question marks and may have a, b, c as sub questions.  | on carries AG  | A        |
| 1.a) b) c) d) e) f) g) h) i) | With a neat diagram explain the basic operational concepts of computer. What is Stack Organization? Define Cache Memory. What is a Micro Program? What is an Interrupt? What is an IO Processor? Define Trashing. How to describe the deadlock? Give an example. List any four file operations. Mention the objectives of File management System. | 5 Marks) [2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3] | <u> </u> |
| <u></u>                      | Explain the instruction cycle with a neat flow chart.  OR  Give explanation about the fixed point and floating point representations in det   | Marks) (10)  | Δ        |
| 4.<br>                       | What is Virtual Memory? Explain in detail.  With neat diagram, explain address selection for control memory.  Explain about different modes of transfer.  OR  | [10]   | A        |
| 7.  8.  9.a) b)              | What are the goals of memory management? Explain the Contiguous Allocation techniques.  What are the differences between paging and segmentation?  Explain the Deadlock Prevention Technique.   | [10] Memory [10] [5+5]                                   | Д        |
| 10.                          | Explain the different file allocation methods.  OR  Write short notes on file sharing and file protection.  | [10]   | A        |