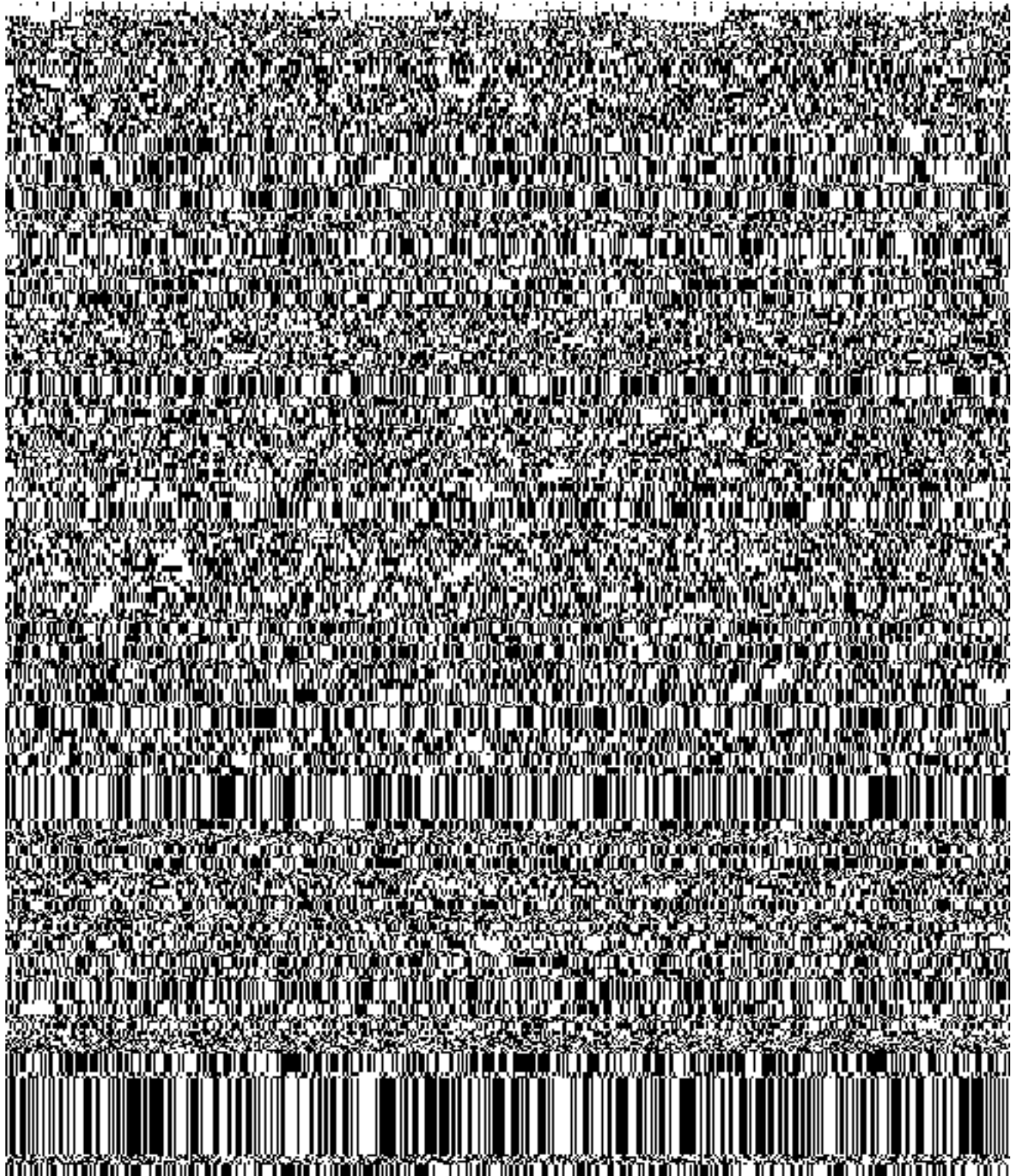




R17 Regulation

Subject code:1B1AH

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A+' Grade)



OR

16. Explain the working of an optical fiber communication system and list out its advantages over conventional system. (6+4=10marks)

17. Determine the effective number of atoms, atomic radius of a FCC unit cell and hence, calculate its density of packing. (10 marks)

OR

18. Diamond, being the hardest substance on the earth has a very low packing density-justify this statement by discussing the diamond cubic structure in detail. (10 marks)

19. Describe the procedure involved in powder method of analyzing polycrystals using x-ray diffraction technique. (10 marks)

OR

20. Discuss the point defects and line dislocations in detail, with necessary diagrams. (10 marks)