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**COMSATS University, Islamabad**

**Assignment # 3**

**Author**

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**Course**

***Discrete Structures ()***

**Instructor**

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**Solutions**

**Q1.**

a0 = 2 x (-3)0 + 50 = 3

a0 = 2 x (-3)1 + 51 = -1

a0 = 2 x (-3)4 + 54 = 571

a0 = 2 x (-3)5 + 55 = 3071

**Q3.**

1. **–**
2. 20 + 1 = 2
3. 21 + 1 = 3
4. 22 + 1 = 5
5. 23 + 1 = 9
6. **–**
7. (0 + 1)0+1 = 1
8. (1 + 1)1+1 = 4
9. (2 + 1)2+1 = 27
10. (3 + 1)3+1 = 256
11. **–**
12. 0/2 = 0
13. 1/2 = 0.5
14. 2/2 = 1
15. 3/2 = 1.5
16. **–**
17. 0/2 + 0/2 = 0
18. 1/2 + 1/2 = 1
19. 2/2 + 2/2 = 2
20. 3/2 + 3/2 = 3

**Q5. (a).** 2, 5, 8, 11, 14, 17, 20, 23, 26, 29

**Q5. (b).** 1, 4, 7, 10, 13, 16, 19, 22, 25, 28