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**BÀI TẬP CHƯƠNG 5**

**Bài 1: Thực hiện đếm bậc các đỉnh tại ví dụ 5.1, 5.3, 5.4, 5.6 .**

**5.1:**

* D(A) = 3
* D(B) = 4
* D(C) = 4
* D(D) = 4
* D(E) = 2
* D(F) = 3
* D(G) = 2

5.3:

* D(A) = 4
* D(B) = 4
* D(C) = 4
* D(D) = 4
* D(E) = 2
* D(F) = 5

5.4:

* D(A) = 5
* D(B) = 5
* D(C) = 4
* D(D) = 4
* D(E) = 3
* D(F) = 3

5.6:

* D(A) = 3
* D(B) = 2
* D(C) = 2
* D(D) = 1
* D(E) = 1
* D(F) = 1

**Bài 2: Cho biết ma trận kề của đồ thị tại ví dụ 5.1, 5.6, 5.7, 5.11 .**

**5.1:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **A** | **B** | **C** | **D** | **E** | **F** | **G** |
| **A** | **0** | **1** | **1** | **1** | **0** | **0** | **0** |
| **B** | **1** | **0** | **1** | **0** | **1** | **1** | **0** |
| **C** | **1** | **1** | **0** | **1** | **0** | **1** | **0** |
| **D** | **1** | **1** | **1** | **0** | **0** | **1** | **1** |
| **E** | **0** | **1** | **0** | **0** | **0** | **1** | **0** |
| **F** | **0** | **1** | **1** | **1** | **0** | **1** | **1** |
| **G** | **0** | **0** | **0** | **1** | **0** | **1** | **0** |

**5.6 :**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **A** | **B** | **C** | **D** | **E** | **F** |
| **A** | **0** | **1** | **1** | **1** | **0** | **0** |
| **B** | **0** | **0** | **1** | **0** | **1** | **0** |
| **C** | **0** | **0** | **0** | **1** | **1** | **0** |
| **D** | **0** | **0** | **0** | **0** | **1** | **0** |
| **E** | **0** | **0** | **0** | **0** | **0** | **1** |
| **F** | **0** | **1** | **0** | **0** | **0** | **0** |

**5.7:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **A** | **B** | **C** | **D** | **E** | **F** | **G** |
| **A** | **0** | **0** | **1** | **1** | **0** | **1** | **0** |
| **B** | **0** | **0** | **0** | **1** | **1** | **0** | **0** |
| **C** | **1** | **0** | **0** | **0** | **0** | **1** | **0** |
| **D** | **1** | **1** | **0** | **0** | **1** | **1** | **0** |
| **E** | **0** | **1** | **0** | **0** | **0** | **0** | **0** |
| **F** | **1** | **0** | **1** | **1** | **0** | **0** | **0** |
| **G** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

**5.11:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** |
| **1** | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2** | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **3** | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **4** | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **5** | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| **6** | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **7** | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| **8** | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| **9** | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **10** | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| **11** | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **12** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| **13** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| **14** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

**Bài 3: Cho biết danh sách kề của đồ thị tại ví dụ 5.1, 5.7, 5.9, 5.11 .**

5.1

* A-B-C-D
* B-A-C-F-E
* C-A-B-F-D
* D-A-C-F-G
* E-B-F
* F-B-C-D-G
* G-D-F

5.7

* A-C-D-F
* B-D-E
* C-A-F
* D-A-B-F-E
* E-B-D
* F-A-C-D
* G

5.9

* A-B-C-D
* B-A-C-E-F
* C-A-B-D-F
* D-A-C-F-G
* E-B-F
* F-B-C-D-E-G
* G-D-F

5.11

* 1-2-3
* 2-1-7
* 3-1-6
* 4-1-5
* 5-4-11-10
* 6-3
* 7-8-9
* 8-13-14
* 9-7
* 10-5-12
* 11-5
* 12-10
* 13-8
* 14-8