**KHWOPA ENGINEERING COLLEGE**

**UNIT TEST - 2073**

lEVEL:- B. E. Computer / **Seventh Semester**

SUBJECT:- BEG475CO, Elective I (Image processing and Pattern recognition)

FULL MARKS:- 25

TIME:- 01:00 hr. 2073-09-14 PASS MARKS:- 10

*Candidates are required to give their answers in their own words as far as practicable.*

**Attempt ALL questions.**

Q.1. Define digital image processing. Explain its application in various sectors. [5]

Q.2. Explain the basic relationship between pixels. [5]

Q.3. Describe histogram equalization. Obtain Histogram equalization for the following image segment of size 5×5? [8]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 20 | 20 | 20 | 18 | 16 |  |
| 15 | 15 | 16 | 18 | 15 |  |
| 15 | 15 | 19 | 15 | 17 |  |
| 16 | 17 | 19 | 18 | 16 |  |
| 20 | 18 | 17 | 20 | 15 | (5 × 5) matrix | |

Q. 4. Explain the concept of enhancement by point processing using suitable example. [7]

**The End**

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 20 | 20 | 20 | 18 | 16 |  |
| 15 | 15 | 16 | 18 | 15 |  |
| 15 | 15 | 19 | 15 | 17 |  |
| 16 | 17 | 19 | 18 | 16 |  |
| 20 | 18 | 17 | 20 | 15 | (5 × 5) matrix | |

Q. 4. Explain the concept of enhancement by point processing using suitable example. [7]

**The End**

**KHWOPA ENGINEERING COLLEGE**

**UNIT TEST - 2016**

lEVEL:- B. E. Computer / **Seventh Semester**

SUBJECT:- BEG475CO, Elective I (Image processing and Pattern recognition)

FULL MARKS:- 25

TIME:- 01:00 hr. 2072-12-11 PASS MARKS:- 10

*Candidates are required to give their answers in their own words as far as practicable.*

**Attempt ALL questions.**

Q.1. Define digital image processing. Explain its application in various sectors. [5]

Q.2. Explain the basic relationship between pixels. [5]

Q.3. Describe histogram equalization. Obtain Histogram equalization for the following image segment of size 5×5? [8]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 20 | 20 | 20 | 18 | 16 |  |
| 15 | 15 | 16 | 18 | 15 |  |
| 15 | 15 | 19 | 15 | 17 |  |
| 16 | 17 | 19 | 18 | 16 |  |
| 20 | 18 | 17 | 20 | 15 | (5 × 5) matrix | |

Q. 4. Explain the concept of enhancement by point processing using suitable example. [7]

**The End**

**KHWOPA ENGINEERING COLLEGE**

**UNIT TEST - 2016**

lEVEL:- B. E. Computer / **Seventh Semester**

SUBJECT:- BEG475CO, Elective I (Image processing and Pattern recognition)

FULL MARKS:- 25

TIME:- 01:00 hr. 2072-12-11 PASS MARKS:- 10

*Candidates are required to give their answers in their own words as far as practicable.*

**Attempt ALL questions.**

Q.1. Define digital image processing. Explain its application in various sectors. [5]

Q.2. Explain the basic relationship between pixels. [5]

Q.3. Describe histogram equalization. Obtain Histogram equalization for the following image segment of size 5×5? [8]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 20 | 20 | 20 | 18 | 16 |  |
| 15 | 15 | 16 | 18 | 15 |  |
| 15 | 15 | 19 | 15 | 17 |  |
| 16 | 17 | 19 | 18 | 16 |  |
| 20 | 18 | 17 | 20 | 15 | (5 × 5) matrix | |

Q. 4. Explain the concept of enhancement by point processing using suitable example. [7]

**The End**