

Quiz 1: Attempt review

moodle.lnmiit.ac.in/moodle/mod/quiz/review.php?attempt=219645&cmid=4967

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Started on: Friday, 23 September 2022, 6:59 PM
State: Finished
Completed on: Friday, 23 September 2022, 6:59 PM
Time taken: 20 mins
Grade: 13.75 out of 15.00 (92%)
Feedback: <https://www.lnmiit.ac.in/>

Question 1
Correct
Mark 1.00 out of 1.00
Flag question

Large value of gamma will produce _____ image.

☐ a. low contrast
☐ b. same
☐ c. lighter
☒ d. darker

Your answer is correct.
The correct answer is:
darker

Question 2
Correct
Mark 1.00 out of 1.00
Flag question

In the following image, all pixels with value '1' corresponds to object. How many number of pixels will be corresponding to boundary pixels if 4 connectivity is used.

0	0	0	0	0	0	0
0	0	0	1	0	0	0

1 2 3 4 5 6 7 8 9
10 11 12

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Marker

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

In the following image, all pixels with value '1' corresponds to object. How many number of pixels will be corresponding to boundary pixels if 4 connectivity is used.

0	0	0	0	0	0	0
0	0	0	1	0	0	0
0	0	1	1	1	0	0
0	1	1	1	1	1	0
0	1	1	1	1	0	0
0	1	1	1	0	0	0
0	1	0	1	0	0	0
0	0	0	0	0	0	0

☐ a. 16

☐ b. 14

☒ c. 12

☐ d. 10

Your answer is correct.

The correct answer is:
12

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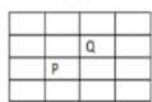
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Your answer is correct.
The correct answer is:
12

Question 3
Correct
Mark 1.00 out of 1.00
Flag question

In the following figure which of the option is true?



- 1) $Q \in N_4(P)$ 2) $Q \in N_8(P)$ 3) $Q \in N_D(P)$

- ☐ a. both 1) and 2)
☐ b. only 3)
☐ c. only 2)
☒ d. both 2) and 3)



Your answer is correct.
The correct answer is:
both 2) and 3)

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Your answer is correct.
The correct answer is:
both 2) and 3)

Question 4
Incorrect
Mark: 0.25 out of 1.00
Flag question

_____ number of bits are required to store a 120 X 100 image with 8 gray levels.

☒ a. 120x100x8

☐ b. 120x100x3

☐ c. 120x100x255

☐ d. 120x100x256

Your answer is incorrect.
The correct answer is:
120x100x3

Question 5
Correct
Mark: 2.00 out of 2.00

Match the Images (1-4) below to their corresponding pixel histogram (A-D).

Image 1

Image 2

Image 3

Image 4

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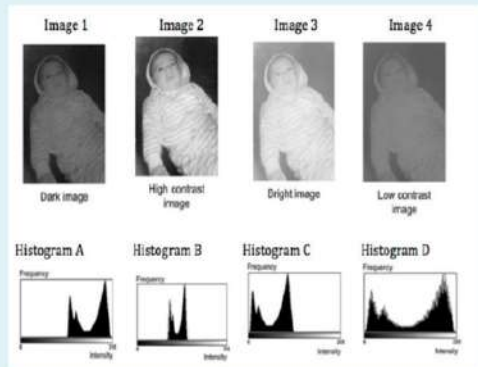
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Question 5
Correct
Mark 2.00 out of 2.00
Flag question

Match the Images (1-4) below to their corresponding pixel histogram (A-D).



- ☒ a. Image 1 – Histogram C, Image 2- Histogram D, Image 3 – Histogram A, Image 4 – Histogram B
- ☐ b. Image 1 – Histogram B, Image 2- Histogram D, Image 3 – Histogram A, Image 4 – Histogram C
- ☐ c. Image 1 – Histogram C, Image 2- Histogram A, Image 3 – Histogram D, Image 4 – Histogram B
- ☐ d. Image 1 – Histogram B, Image 2- Histogram A, Image 3 – Histogram D, Image 4 – Histogram C

Your answer is correct.

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Your answer is correct.
The correct answer is:
Image 1 – Histogram C, Image 2- Histogram D, Image 3 – Histogram A, Image 4 – Histogram B

Question 6
Correct
Mark 1.00 out of 1.00
Flag question

In formula $g(x,y) = T[f(x,y)]$, T is the

☐ a. Transformed image

☐ b. Transformation vector

☐ c. Transformation theory

☒ d. Transformation function

✓

Your answer is correct.
The correct answer is:
Transformation function

Question 7
Correct
Mark 2.00 out of 2.00

Given a 4 X 4 image as shown in Figure. Obtain the median filtered image using 3 X 3 mask for pixel marked with orange color of the input image.

4	3	2	4
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The correct answer is:
Transformation function.

Question 7
Correct
Mark 2.00 out of 2.00
Flag question

Given a 4 X 4 image as shown in Figure. Obtain the median filtered image using 3 X 3 mask for pixel marked with orange color of the input image.

4	3	2	4
8	9	2	12
15	15	14	14
2	15	2	11

- ☐ a. 9
- ☐ b. 12
- ☐ c. 4
- ☒ d. 8



Your answer is correct.
The correct answer is:
8

Your answer is correct.

The correct answer is:
8

Question 8

Correct

Mark 2.00 out of 2.00

Flag question

Find the DFT for [3 3 2 3]

- ☐ a. [5 -3 1 -3]
☐ b. [5 0 0 -2]
☒ c. [12 1 -1 1]
☐ d. [12 5 -3 1]



Your answer is correct.

The correct answer is:
[12 1 -1 1]

Question 9

Correct

Mark 1.00 out of 1.00

Flag question

Given a 5 X 5 image as shown in Fig. 2. The image needs to be processed using the transformation operator as shown in Fig. 3. Obtain the pixel value of the output $s=T(r)$ for input shown in blue

2	5	1	4	5
0	3	1	1	7
7	7	4	5	3

4



Question 9
Correct.
Mark 1.00 out of 1.00
Flag question

Given a 5 X 5 image as shown in Fig. 2. The image needs to be processed using the transformation operator as shown in Fig. 3. Obtain the pixel value of the output $s=T(r)$ for input shown in blue

2	5	1	4	5
0	3	1	1	7
7	7	4	5	3
2	5	7	7	7
0	3	5	1	0

Fig. 2

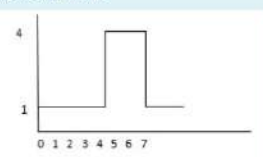


Fig. 3

- ☐ a. 4
- ☐ b. 3
- ☐ c. 0
- ☒ d. 1



Your answer is correct.
The correct answer is:
1

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The correct answer is:
1.

Question 10
Correct
Mark 1.00 out of 1.00
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In LPF, the narrower the frequency domain bandwidth, filter results in more smoothened output.

☐ a. False
☒ b. True

Your answer is correct.
The correct answer is:
True

Question 11
Correct
Mark 1.00 out of 1.00
Flag question

What is the difference between computer vision and computer graphics?

☐ a. Both are same
☒ b. Computer vision is transformation from 2D to 3D and Computer graphics is just the reverse
☐ c. Computer vision is transformation from 3D to 2D and Computer graphics is just the reverse

Your answer is correct.
The correct answer is:
Computer vision is transformation from 2D to 3D and Computer graphics is just the reverse

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Question 12
Correct
Mark 1.00 out of 1.00
Flag question

How many m-path are possible between p and q pixels?

0	0	0	0	^p	0	0	0
0	0	0	1	0	0	0	0
0	0	1	1	1	0	0	0
0	1	1	1	1	1	0	0
0	1	1	1	1	1	0	0
0	1	1	1	0	0	0	0
0	1	0	1	0	0	0	0
0	0	0	0	^q	0	0	0

- ☐ a. no m-path
- ☒ b. more than 4
- ☐ c. only 1
- ☐ d. 4

Your answer is correct.
The correct answer is:
more than 4