Started on	Monday, 12 December 2022, 10:09 AM
State	Finished
Completed on	Monday, 12 December 2022, 10:53 AM
Time taken	44 mins 4 secs
Grade	**27.00** out of 33.00 (**82%**)

Question 1

Incorrect

Mark 0.00 out of 3.00

9. Suppose that a pizza parlor features four specialty pizzas and pizzas with three or fewer unique toppings chosen from 17 available toppings, how many different pizzas are there?

a. 680 b. 154 c. 322 d. 838

- a. a ✖
- b. d
- c. b
- d. c

Your answer is incorrect.

The correct answer is:
d

Question 2

Correct

Mark 3.00 out of 3.00

8. In how many ways can five distinct Martians and eight distinct Jovians wait in line if no two Martians stand together?

a. 609, 638, 400 b. 15, 120 c. 40, 320 d. 638, 609, 400

- a. c
- b. d
- c. b
- d. a ✔

Your answer is correct.

The correct answer is:
a

Question 3

Correct

Mark 3.00 out of 3.00

Read and understand the statement/problem, solve then choose the best answer.

1. Given the relation R = {(a , a), (b, c), (c, b), (d, d) on x = [a, b, c, d] . Which of the following is the reason why this is not an equivalence relation?

a. Not reflexive and not symmetric c. not reflexive and not transitive

b. Not symmetric and not transitive d. not symmetric, not transitive and not reflexive.

- a. b
- b. c ✔
- c. d
- d. a

Your answer is correct.

The correct answer is:
c

Question 4

Correct

Mark 3.00 out of 3.00

5. In a digital picture, how many values are possible at one point if we wish to encode the amount of light at each point as an eight-bit string?

a. 128 b. 64 c. 32 d. 256

- a. d ✔
- b. c
- c. a
- d. b

Your answer is correct.

The correct answer is:
d

Question 5

Correct

Mark 3.00 out of 3.00

10. Given: a b

d e

with loop at b and the diagonal is c.

Which of the following is a simple cycle?

a. (e, d, c, d) b. (d, c, b, e, d) c. (a, d, c, b, e) d. (b, c, d, e, b, b)

- a. a
- b. c
- c. b ✔
- d. d

Your answer is correct.

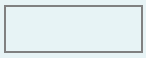
The correct answer is:
b

Question 6

Correct

Mark 3.00 out of 3.00

10. Given: a b



d e

with loop at b and the diagonal is c.

Which of the following is a simple path?

a. (e, d, c, d) b. (d, c, b, e, d) c. (a, d, c, b, e) d. (b, c, d, e, b, b)

- a. a
- b. d
- c. b
- d. c ✔

Your answer is correct.

The correct answer is:

c

Question 7

Correct

Mark 3.00 out of 3.00

2. What is the pictorial representation of a relation with vertices and edges?

a. Pictogram b. digraph c. loop d. matrices

- a. c
- b. a
- c. d
- d. b ✔

Your answer is correct.

The correct answer is:

b

Question 8

Correct

Mark 3.00 out of 3.00

3. Which of the following is the matrix of he relation R = {(1, b), (1, d), (2, c), (3, c), (3, b), (4, d) from X = 1, 2, 3, 4 to Y = a, b, c, d relative to the orderings 1, 2, 3, 4 and a, b, c, a, d.?

a. 0 1 0 1 / 0 0 1 0 / 0 1 1 0 / 1 0 0 0

b. 0 0 0 1 / 0 1 0 1 / 1 0 0 1 / 0 0 1 0

c. 1 0 0 0 / 0 1 0 0 / 0 1 0 1 / 1 1 1 1

d. 0 1 0 0 / 1 0 0 0 / 1 0 1 0 / 0 0 0 1

- a. b
- b. c
- c. a ✔
- d. d

Your answer is correct.

The correct answer is:
a

Question 9

Correct

Mark 3.00 out of 3.00

6. Three departmental committees have 6, 12 and 9 members with no overlapping membership. In how many ways can these committees send one member to meet with the president?

a. 27 b. 21 c. 18 d. 15

- a. b
- b. a ✔
- c. c
- d. d

Your answer is correct.

The correct answer is:
a

Question 10

Incorrect

Mark 0.00 out of 3.00

4. Which of the following is a NOT gate?

a. Combinatorial circuit b. sequential circuit c. inverter d. AND/OR

- a. d ✖
- b. c
- c. a
- d. b

Your answer is incorrect.

The correct answer is:
c

Question 11

Correct

Mark 3.00 out of 3.00

7. A man has eight shirts, four pairs of pants, and five pairs of shoes. How many different outfits are possible?

a. 20 b. 32 c. 160 d. 40

- a. d
- b. c ✔
- c. a
- d. b

Your answer is correct.

The correct answer is:
c

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