



The screenshot shows a web browser window with the address bar displaying "idunex.itb.ac.id/exam/18880". The page title is "Google Chrome isn't your default browser" with a "Set as default" button.

The main content area contains a list of rules (R1-R11) for fruit classification:

- R1: IF Seedcount = 1 THEN Seedclass=stonefruit
- R2: IF Seedcount > 1 THEN Seedclass=multiple
- R3: IF Shape = long and Color= yellow THEN Fruit = banana
- R4: IF Shape = round and Diameter > 4 inches THEN Fruitclass=vine
- R5: IF Shape = round and Diameter < 4 inches THEN Fruitclass=tree
- R6: IF FruitClass= vine and Surface= smooth THEN Fruit= watermelon
- R7: IF FruitClass= vine and Surface= rough and Color= tan THEN Fruit=honeydew
- R8: IF FruitClass= vine and Surface= smooth and Color= yellow THEN Fruit= cantaloupe
- R9: IF FruitClass= tree and Color= orange and Seedclass= stonefruit THEN Fruit= apricot
- R10: IF FruitClass= tree and Color= orange and Seedclass= multiple THEN Fruit= orange
- R11: IF FruitClass= tree and Color= red and Seedclass=multiple THEN Fruit=apple

Below the rules, there's a section titled "Tentukanlah semua fruit yang sesuai fakta yang diberikan pengguna dengan melakukan inferensi dengan forward chaining jika strategi yang digunakan adalah refractoriness > recency > specificity > rule order. Kumpulan fakta pada working memory adalah: Diameter = 5 inch , Shape = round : SeedCount > 1 ; Color = yellow : Surface = smooth. Urutan fakta menunjukkan urutan masuk ke working memory. Proses dimulai dengan Iterasi 1. Lakukanlah proses forward chaining dgn memilih jawaban yang sesuai berikut ini. Jika tidak ada rule yg bisa dipilih atau proses sudah selesai, pilihlah stop."

Iterasi 2: pilihlah selected rule yang akan diaktivasi:

A list of rules with radio buttons for selection:

- ☐ Stop
- ☐ R1
- ☐ R2
- ☐ R3
- ☒ R4
- ☐ R5
- ☐ R6
- ☐ R7
- ☐ R8
- ☐ R9
- ☐ R10
- ☐ R11

The bottom status bar shows system information: 23°C Berawan, Search, and various application icons. The date and time are 20:08 20/10/2024.

Institut Teknologi Bandung

edunex.itb.ac.id/exam/18880

Google Chrome isn't your default browser

Set as default

Paused

Diberikan rule-set untuk menentukan buah (Fruit) sebagai berikut:  
R1: IF Seedcount = 1 THEN Seedclass=stonefruit  
R2: IF Seedcount > 1 THEN Seedclass=multiple  
R3: IF Shape = long and Color= yellow THEN Fruit = banana  
R4: IF Shape = round and Diameter > 4 inches THEN Fruitclass=vine  
R5: IF Shape = round and Diameter < 4 inches THEN Fruitclass=tree  
R6: IF FruitClass= vine and Surface= smooth THEN Fruit= watermelon  
R7: IF FruitClass= vine and Surface= rough and Color= tan THEN Fruit=honeydew  
R8: IF FruitClass= vine and Surface= smooth and Color= yellow THEN Fruit= cantaloupe  
R9: IF FruitClass= tree and Color= orange and Seedclass= stonefruit THEN Fruit= apricot  
R10: IF FruitClass= tree and Color= orange and Seedclass= multiple THEN Fruit= orange  
R11: IF FruitClass= tree and Color= red and Seedclass=multiple THEN Fruit=apple

Tentukanlah semua fruit yang sesuai fakta yang diberikan pengguna dengan melakukan inferensi dengan forward chaining jika strategi yang digunakan adalah refractoriness > recency > specificity > rule order. Kumpulan fakta pada working memory adalah: Diameter = 5 inch , Shape = round ; SeedCount > 1 ; Color = yellow ; Surface = smooth. Urutan fakta menunjukkan urutan masuk ke working memory. Proses dimulai dengan Iterasi 1.  
Lakukanlah proses forward chaining dgn memilih jawaban yang sesuai berikut ini. Jika tidak ada rule yg bisa dipilih atau proses sudah selesai, pilihlah stop.

Iterasi 3: pilihlah selected rule yang akan diaktivasi:

O Point ☐ Stop

O Point ☐ R1

O Point ☐ R2

O Point ☐ R3

O Point ☐ R4

O Point ☐ R5

O Point ☐ R6

O Point ☐ R7

S Point ☒ R8

O Point ☐ R9

O Point ☐ R10

O Point ☐ R11

Coping

Andika

hari ini

23°C

Berawan

Search

2008

20/10/2024

The screenshot shows a Google Chrome browser window at the URL "edunex.itb.ac.id/exam/18880". The page title is "Berawan". The main content area contains a quiz question about forward chaining inference. It lists 11 rules (R1-R11) based on fruit characteristics like seed count, shape, diameter, color, surface, and seed class. Below the rules, it asks to determine which rule will be deactivated after the first iteration. A list of options (R1 through R11) is provided, with R6 selected. The bottom status bar shows system information like temperature (23°C), time (20:09), and date (20/10/2024).

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Google Chrome isn't your default browser Set as default

Diberikan rule-set untuk menentukan buah (fruit) sebagai berikut:  
R1: IF Seedcount = 1 THEN Seedclass=stonefruit  
R2: IF Seedcount > 1 THEN Seedclass=multiple  
R3: IF Shape = long and Color= yellow THEN Fruit = banana  
R4: IF Shape = round and Diameter > 4 inches THEN Fruitclass=vine  
R5: IF Shape = round and Diameter < 4 inches THEN Fruitclass=tree  
R6: IF FruitClass= vine and Surface= smooth THEN Fruit= watermelon  
R7: IF FruitClass= vine and Surface= rough and Color= tan THEN Fruit=honeydew  
R8: IF FruitClass= vine and Surface= smooth and Color= yellow THEN Fruit= cantaloupe  
R9: IF FruitClass= tree and Color= orange and Seedclass= stonefruit THEN Fruit= apricot  
R10: IF FruitClass= tree and Color= orange and Seedclass= multiple THEN Fruit= orange  
R11: IF FruitClass= tree and Color= red and Seedclass=multiple THEN Fruit=apple

Tentukanlah semua fruit yang sesuai fakta yang diberikan pengguna dengan melakukan inferensi dengan forward chaining jika strategi yang digunakan adalah refractoriness > recency > specificity > rule order. Kumpulan fakta pada working memory adalah: Diameter = 5 inch ; Shape = round ; SeedCount > 1 ; Color = yellow ; Surface = smooth. Urutan fakta menunjukkan urutan masuk ke working memory. Proses dimulai dengan Iterasi 1.

Lakukanlah proses forward chaining dgn memilih jawaban yang sesuai berikut ini. Jika tidak ada rule yg bisa dipilih atau proses sudah selesai, pilihlah stop.

Iterasi 5: pilihlah conflict set-mya adalah:

0 Point ☐ Stop  
0 Point ☐ R1  
2 Point ☒ R2  
0 Point ☐ R3  
2 Point ☒ R4  
0 Point ☐ R5  
2 Point ☒ R6  
0 Point ☐ R7  
2 Point ☒ R8  
0 Point ☐ R9  
0 Point ☐ R10  
0 Point ☐ R11

23°C Berawan

2009 20/10/2024

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Diberikan rule-set untuk menentukan buah (fruit) sebagai berikut:  
R1: IF Seedcount = 1 THEN Seedclass=stonefruit  
R2: IF Seedcount > 1 THEN Seedclass=multiple  
R3: IF Shape = long and Color= yellow THEN Fruit = banana  
R4: IF Shape = round and Diameter > 4 inches THEN Fruitclass=vine  
R5: IF Shape = round and Diameter < 4 inches THEN Fruitclass=tree  
R6: IF FruitClass= vine and Surface= smooth THEN Fruit= watermelon  
R7: IF FruitClass= vine and Surface= rough and Color= tan THEN Fruit=honeydew  
R8: IF FruitClass= vine and Surface= smooth and Color= yellow THEN Fruit= cantaloupe  
R9: IF FruitClass= tree and Color= orange and Seedclass= stonefruit THEN Fruit= apricot  
R10: IF FruitClass= tree and Color= orange and Seedclass= multiple THEN Fruit= orange  
R11: IF FruitClass= tree and Color= red and Seedclass=multiple THEN Fruit=apple

Tentukanlah semua fruit yang sesuai fakta yang diberikan pengguna dengan melakukan inferensi dengan forward chaining jika strategi yang digunakan adalah refractoriness > recency > specificity > rule order. Kumpulan fakta pada working memory adalah: Diameter = 5 inch ; Shape = round ; SeedCount > 1 ; Color = yellow ; Surface = smooth. Urutan fakta menunjukkan urutan masuk ke working memory. Proses dimulai dengan Iterasi 1.

Lakukanlah proses forward chaining dgn memilih jawaban yang sesuai berikut ini. Jika tidak ada rule yg bisa dipilih atau proses sudah selesai, pilihlah stop.

Iterasi 5: pilihlah selected rule yang akan diaktivasi:

5 Point ☒ Stop  
0 Point ☐ R1  
0 Point ☐ R2  
0 Point ☐ R3  
0 Point ☐ R4  
0 Point ☐ R5  
0 Point ☐ R6  
0 Point ☐ R7  
0 Point ☐ R8  
0 Point ☐ R9  
0 Point ☐ R10  
0 Point ☐ R11

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2009 20/10/2024



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Question 13 of 15

Number 13

Diberikan rule-set untuk menentukan buah (fruit) sebagai berikut:

R1: IF Seedcount = 1 THEN Seedclass=stonefruit  
R2: IF Seedcount > 1 THEN Seedclass=multiple  
R3: IF Shape = long and Color= yellow THEN Fruit = banana  
R4: IF Shape = round and Diameter > 4 inches THEN Fruitclass=vine  
R5: IF Shape = round and Diameter < 4 inches THEN Fruitclass=tree  
R6: IF FruitClass= vine and Surface= smooth THEN Fruit= watermelon  
R7: IF FruitClass= vine and Surface= rough and Color= tan THEN Fruit=honeydew  
R8: IF FruitClass= vine and Surface= smooth and Color= yellow THEN Fruit= cantaloupe  
R9: IF FruitClass= tree and Color= orange and Seedclass= stonefruit THEN Fruit= apricot  
R10: IF FruitClass= tree and Color= orange and Seedclass= multiple THEN Fruit= orange  
R11: IF FruitClass= tree and Color= red and Seedclass=multiple THEN Fruit=apple

Tentukanlah semua fruit yang sesuai fakta yang diberikan pengguna dengan melakukan inferensi dengan forward chaining jika strategi yang digunakan adalah refractoriness > recency > specificity > rule order. Kumpulan fakta pada working memory adalah: Diameter = 5 inch ; Shape = round ; SeedCount > 1 ; Color = yellow ; Surface = smooth. Urutan fakta menunjukkan urutan masuk ke working memory. Proses dimulai dengan iterasi 1. Lakukanlah proses forward chaining dgn memilih jawaban yang sesuai berikut ini. Jika tidak ada rule yg bisa dipilih atau proses sudah selesai, pilihlah stop.

Kesimpulan yang didapatkan dari proses inferensi ini adalah:

0 Point ☐ Fruit = banana  
5 Point ☒ Fruit= watermelon  
0 Point ☐ Fruit=honeydew  
5 Point ☒ Fruit= cantaloupe  
0 Point ☐ Fruit= apricot  
0 Point ☐ Fruit =orange  
0 Point ☐ Fruit=apple

This is a solution or feedback of question

Score : 10

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Berikut ini adalah rangkaian Rule pada suatu RBS

R1: IF (green X) AND (circle X) AND (high-saturation X) THEN ADD (valid X)  
R2: IF (red X) AND (triangle X) AND (low-saturation X) THEN ADD (valid X)  
R3: IF (blue X) AND (rectangle X) THEN ADD (valid X)  
R4: IF (angle X 0) THEN ADD (circle X)  
R5: IF (angle X 3) THEN ADD (triangle X)  
R6: IF (angle X 4) THEN ADD (rectangle X)  
R7: IF (hue X mid) THEN ADD (green X)  
R8: IF (hue X low) THEN ADD (red X)  
R9: IF (hue X high) THEN ADD (blue X)  
R10: IF (red X) THEN DELETE (hue X mid, hue X high)  
R11: IF (green X) THEN DELETE (hue X low, hue X high)  
R12: IF (blue X) THEN DELETE (hue X low, hue X mid)  
R13: IF (circle X) THEN DELETE (angle X 3, angle X 4)  
R14: IF (triangle X) THEN DELETE (angle X 0, angle X 4)  
R15: IF (rectangle X) THEN DELETE (angle X 0, angle X 3)

Backward Chaining:

Diberikan fakta di bawah ini, dan diperiksa agar konklusi (valid sign3) didapat.

- Rule Order berlaku untuk Monitor
- FindOut memeriksa proposisi dari kiri
- FindOut tidak memeriksa proposisi sisanya bila fakta tidak sesuai
- Pada fakta, nilai variabel yang diberikan atribut tertentu mengakibatkan atribut lainnya pada ranah yang sama bernilai False. Sebagai contoh, fakta (hue sign2 low) mengakibatkan (hue sign2 high) bernilai False

Facts:

> Working memory kosong  
F1 (hue sign3 low)  
F2 (angle sign3 3)

Sampai pada momen FindOut meminta request terhadap fakta yang harus ditambahkan, pilih rule mana saja yang diperiksa Monitor!

4 Point ☒ R1  
4 Point ☒ R2  
0 Point ☐ R3  
0 Point ☐ R4  
4 Point ☒ R5  
0 Point ☐ R6  
4 Point ☒ R7  
4 Point ☒ R8

23°C Berawan

2010 20/10/2024

The screenshot shows a web browser window with the address bar displaying "edunex.itb.ac.id/exam/18880". The page title is "Institit Teknologi Bandung". The main content area contains a quiz question about Rule-based Systems (RBS).

**Question:** Berikut ini adalah rangkaian Rule pada suatu RBS

**Options:**

- R1: IF (green X) AND (circle X) AND (high-saturation X) THEN ADD (valid X)
- R2: IF (red X) AND (triangle X) AND (low-saturation X) THEN ADD (valid X)
- R3: IF (blue X) AND (rectangle X) THEN ADD (valid X)
- R4: IF (angle X 0) THEN ADD (circle X)
- R5: IF (angle X 3) THEN ADD (triangle X)
- R6: IF (angle X 4) THEN ADD (rectangle X)
- R7: IF (hue X mid) THEN ADD (green X)
- R8: IF (hue X low) THEN ADD (red X)
- R9: IF (hue X high) THEN ADD (blue X)
- R10: IF (red X) THEN DELETE (hue X mid), (hue X high)
- R11: IF (green X) THEN DELETE (hue X low), (hue X high)
- R12: IF (blue X) THEN DELETE (hue X low), (hue X mid)
- R13: IF (circle X) THEN DELETE (angle X 3), (angle X 4)
- R14: IF (triangle X) THEN DELETE (angle X 0), (angle X 4)
- R15: IF (rectangle X) THEN DELETE (angle X 0), (angle X 3)

**Backward Chaining:**

Diberikan fakta di bawah ini, dan diperiksa agar konklusi (valid sign3) didapat.

- Rule Order berlaku untuk Monitor
  - FindOut memeriksa proposisi dari kiri
  - FindOut tidak memeriksa proposisi sisanya bila fakta tidak sesuai
- Pada fakta, nilai variabel yang diberikan atribut tertentu mengakibatkan atribut lainnya pada ranah yang sama bernilai False. Sebagai contoh, fakta (hue sign2 low) mengakibatkan (hue sign2 high) bernilai False

**Facts:**

- > Working memory kosong
- F1 (hue sign3 low)
- F2 (angle sign3 3)

**Fakta apa yang harus ditambahkan agar konklusi yang diminta bernilai benar!**

**Options:**

- 0 Point ☐ ->(low-saturation sign2)
- 0 Point ☐ +>(hue sign2 low)
- 0 Point ☐ -(angle sign2 3)
- 5 Point ☒ +(low-saturation sign3)
- 0 Point ☐ -(low-saturation sign1)
- 0 Point ☐ -(hue sign1 mid)
- 0 Point ☐ -(angle sign2 2)

The bottom status bar shows the system clock as 20:10 on 20/10/2024, along with various icons for connectivity and background applications.