

### Jambalaya\*

New Orleans' top chef Mauve Maude, is working on a new Jambalaya recipe as she studies for the LSAT. The Jambalaya must include exactly 4 ingredients. She is choosing among the following seven ingredients: garlic, ham, onions, peppers, rice, shrimp, tomatoes. Each ingredient will be treated in one of three ways – marinated, nuked, or fried – before being added. The recipe must adhere to the following rules:

Exactly one ingredient is marinated.

At least two ingredients are nuked.

If both onions and garlic are included, at least one of them is not nuked

If garlic is included, ham is not.

If peppers are included, they are fried.

If rice is included, then it is marinated.

Tomatoes are included whenever shrimp is.

1. Which of the following is a possible list of ingredients, listed with the manner in which each ingredient is prepared?

- (A) rice: marinated; shrimp: nuked; ham: nuked; garlic: fried
- (B) tomatoes: nuked; garlic: marinated ; shrimp: nuked; ham: fried
- (C) shrimp: nuked; tomatoes: marinated; onions: nuked; peppers: fried
- (D) garlic: nuked; onions: nuked; tomatoes: marinated ; shrimp: fried
- (E) peppers: fried; rice: marinated; garlic: fried; tomatoes: nuked

2. If peppers and rice are included, which of the following must be true?

- (A) Either onions or garlic is not included.
- (B) Shrimp is not included.
- (C) Either tomatoes or garlic is not included.
- (D) Ham is included.
- (E) Either ham or garlic is included.

3. If tomatoes are not included, which ingredient must not be included as well?

- (A) garlic
- (B) peppers
- (C) onions
- (D) ham
- (E) rice

4. If both ham and tomatoes are included and nuked, which of the following must be true?

- (A) Shrimp is included and either is marinated or fried.
- (B) Either garlic or rice must be included
- (C) Rice and onions cannot both be included.
- (D) If both onions and peppers are included, they are not prepared in the same manner.
- (E) If both garlic and rice are included, they are prepared in the same manner.

5. If fried ham is included, which of the following is a complete and accurate list of those ingredients that if marinated and included would completely determine the other ingredients to be included?

- (A) shrimp, onions, tomatoes, rice
- (B) shrimp, onions, tomatoes
- (C) shrimp, onions, rice
- (D) shrimp, tomatoes, peppers
- (E) shrimp, tomatoes, garlic

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6. If fried shrimp are included, which of the following could be true?

- (A) Neither onions nor rice are included.
- (B) Neither tomatoes nor ham are included.
- (C) Fried ham is included.
- (D) Rice and peppers are included.
- (E) Ham and onions are included.

7. If garlic and shrimp are included and are prepared in the same manner, how many different recipes –listing both ingredients and specific manners of cooking -- are possible?
- (A) 5
  - (B) 6
  - (C) 7
  - (D) 8
  - (E) 9
8. Which of the following, if true, would result in there being only one possible set of ingredients, though more than one way that at least some of those ingredients could be prepared?
- (A) Neither tomatoes nor garlic is included.
  - (B) Peppers and rice are included, while tomatoes are not.
  - (C) Garlic and marinated shrimp are included while peppers are not.
  - (D) Ham and fried tomatoes are included but shrimp are not.
  - (E) Marinated garlic is included and all other included foods are nuked.

*\*Apologies to the chefs of the city of New Orleans*

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