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Date: 18/10/2022

Subject: BOTANY

Topic : Strategies for Enhancement
in Food Production L4

Class: Standard XII

1. Which of the following is a semi dwarf rice variety created by the International Rice Research Institute (IRRI), Philippines?
 - A. IR-7
 - B. IR-9
 - C. IR-8
 - D. IR-5

2. Read the following statements (A - D) regarding the green revolution in India. Mark the statements as True (T) or False (F).
 - A. Wheat production increased from 10 million tonnes to 65 million tonnes
 - B. Rice production increased from 35 million tonnes to 89.5 million tonnes
 - C. Wheat and rice production increased due to the introduction of semi-dwarf varieties
 - D. Sonalika and Kalyan Sona were the semi dwarf wheat varieties introduced, while Jaya and Ratna were the semi-dwarf rice varieties introduced in India
 - A. A - F, B - T, C - T and D - T
 - B. A - T, B - F, C - F and D - T
 - C. A - F, B - F, C - T and D - T
 - D. A - T, B - T, C - F and D - T

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3. An improved variety of sugarcane was developed by crossing *Saccharum barberi* with *Saccharum officinarum*. This was done to
 - A. increase the yield of sugarcane growing in north India
 - B. increase the yield of sugarcane in south India
 - C. increase the sugar content in the sugar canes of south India
 - D. develop sugarcanes with longer and thicker stems in south India

4. Read the following statements and identify the wrong one with regard to GDP.
 - A. 33% of the GDP in India is contributed by agriculture
 - B. GDP is a measure of the economy of a country
 - C. A higher GDP indicates a better economy
 - D. GDP is Gross Dynamic Production

5. Consider the following statement with blanks A and B regarding sugar cane.

_____A_____ has poor sugar content and ____B____ has thicker stems with high sugar content.

 - A. A - *Saccharum officinarum*, B - *Saccharum barberi*
 - B. A - *Saccharum sinense*, B - *Saccharum barberi*
 - C. A - *Saccharum barberi*, B - *Saccharum officinarum*
 - D. A - *Saccharum officinarum*, B - *Saccharum sinense*

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6. Which of the following is not a characteristic of the semi-dwarf Mexican wheat varieties that were introduced to India during the Green Revolution?
- A. Resistance to diseases
 - B. Unresponsive to fertilisers
 - C. Increased yield
 - D. Resistance to bending of the stem
7. Hybrid varieties of ____A____, ____B____ and ____C____ millets have been successfully developed in India.
- A. A - maize, B - ragi and C - jowar
 - B. A - bajra, B - ragi and C - jowar
 - C. A - maize, B - ragi and C - bajra
 - D. A - maize, B - jowar and C - bajra
8. Choose the mismatched pair from the following.
- A. Maize - *Zea mays*
 - B. Sugar cane - *Saccharum officinarum*
 - C. Wheat - *Pennisetum glaucum*
 - D. Jowar - *Sorghum bicolor*

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9. In the following question a statement of assertion (A) is followed by a statement of reason (R).

A - The qualities of *Saccharum barberi* and *Saccharum officinarum* were combined.

R- North Indian sugar cane varieties were less in sugar content.

- A. Assertion and reason are true, and the reason is the correct explanation of the assertion
 - B. Assertion and reason are true, and the reason is not the correct explanation of the assertion
 - C. Assertion is a true statement but the reason is false
 - D. Assertion and reason are false statements
10. Which of the following crops contribute maximum to food grain production in the world?
- A. Wheat, maize and barley
 - B. Wheat, rice and maize
 - C. Rice, barley and maize
 - D. Wheat, barley and rice