

## MISSION MBBS

Date: 18/10/2022

Subject: BOTANY

Topic : Strategies for Enhancement  
in Food Production L4

Class: Standard XII

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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