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Time : 1½ Hours**AGRICULTURE****Subject Code**

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Total No. of Questions : 3**(Printed Pages : 4)****Maximum Marks : 30**

INSTRUCTIONS : (1) *All* questions are compulsory.

(2) Figures to the right indicate full marks.

(3) Write the no. of the question and sub-question clearly.

(4) Draw diagrams wherever necessary.

(5) Answer to every question shall start on a fresh page.

1. (A) Select the most *correct* alternative from the options given below : 3

(1) C : N ratio of paddy straw is

(a) 50 : 1

(a) 60 : 1

(c) 70 : 1

(d) 80 : 1

(2) is a green manuring crop.

(a) Paddy

(b) Cotton

(c) Glyricidia

(d) Sunflower

(3) At least weedings are required for effective weed control in paddy field.

(a) Two

(b) Four

(c) Six

(d) Five

- (4) Silica and makes degradation of straw difficult.
- (a) Chlorophyll
 - (b) Chitin
 - (c) Lignin
 - (d) Anthocyanin
- (5) N : P : K nutrient content ratio of paddy straw is
- (a) 0.65% : 0.20% : 0.20%
 - (b) 0.70% : 0.20% : 0.30%
 - (c) 0.70% : 0.80% : 0.30%
 - (d) 0.65% : 0.20% : 0.30%
- (6) The efficiency of farm equipments is reduced by
- (a) Rain
 - (b) Weeds
 - (c) Land
 - (d) None of the above

- (B) Answer the following questions in *one* sentence each : 3
- (1) What is paddy straw ?
 - (2) What do you mean by 'Intercultural Operations' ?
 - (3) Explain the term 'Gap filling'.
- (C) Answer the following questions in **3-4** sentences each : 4
- (1) Explain 'Biasi' operation in direct seeded rice cultivation.
 - (2) Differentiate between conventional method and SRI method of paddy cultivation.

2. (A) Select the most *correct* alternative from the options given below : 3

- (1) Paddy grain is stored at moisture content.
- (a) 14%
 - (b) 7%
 - (c) 8%
 - (d) 24%
- (2) is the process of transferring harvested paddy crop from field to threshing ground.
- (a) Reaping
 - (b) Winnowing
 - (c) Hauling
 - (d) Tillage
- (3) Contingency plan of cultivation is made for
- (a) Emergency situations
 - (b) Flood situations
 - (c) Draught situations
 - (d) All of the above
- (4) International Agro Metrological Advisory Service (IAAS) is a tier body.
- (a) Five
 - (b) Three
 - (c) Two
 - (d) Six
- (5) SRI stands for
- (a) System of Rice Integration.
 - (b) Standard of Rice Intensification.
 - (c) System of Rice Innovation.
 - (d) System of Rice Intensification.

- (6) Information regarding weather forecasting is provided to farmer from
- (a) Botany Department
 - (b) Horticulture Department
 - (b) Meteorology Department
 - (d) Soil Science Department
- (B) Answer the following in *one* sentence each : 3
- (1) Mulching in field is done by using paddy straw. Give reason. (Any *one* reason)
 - (2) What is threshing ?
 - (3) What do you mean by 'Brown Rice' ?
- (C) Answer the following questions in **3-4** sentences each : 4
- (1) Write harvesting indices for paddy (any *four*).
 - (2) What are the rights reserved for the farmers under PPVFRA 2001 ?
3. (A) Answer the following questions in *one* sentence each : 3
- (1) What are agrochemicals ?
 - (2) What is secondary market ?
 - (3) Give *two* examples of Non-verbal communication.
- (B) Answer the following questions in **3-4** sentences each : 4
- (1) Explain in brief the steps to be taken while providing the first-aid to the person who had contact with harmful chemical.
 - (2) Write down the importance of good communication skills at workplace.
- (C) Enlist various factors affecting marketing channels and draw the different possible types of paddy marketing channels. 3