DAY — 10 SEAT NUMBER | | | | | | |

2025	II	24	1100	J-326	(E)

AGRICULTURE SCIENCE AND TECHNOLOGY (75)

Time : 3 Hrs. **(4 Pages)** **Max. Marks : 70**

Note : *(i) All questions are compulsory.*

(ii) Draw neat and labelled diagrams wherever necessary.

(iii) Figures to the right indicate full marks.

(iv) Write answers of all questions on new pages.

Q. 1. (A) Select the appropriate alternatives and complete the following statements : **[18]** (5)

(1) Mushrooms are great source of _____ .

(a) fats (b) carbohydrates

(c) proteins (d) minerals

(2) Zonal sowing of crop is recommended to control _____ pest of jowar.

(a) Jassids (b) Midge fly

(c) Shoot fly (d) Aphids

(3) Development of seed without sexual fusion refers to _____ .

(a) Adventive embryony (b) Apogamy

(c) Apospory (d) Apomixis

(4) Agrotourism is _____.

(a) To stay at farm

(b) To do farm activities

(c) To buy farm products

(d) All of the above

(5) _____ is a variety of Banana.

(a) CO-7219 (b) Harichal

(c) Cricket ball (d) Ratna

(B) Match the pairs : (4)

Group 'A'	Group 'B'
(a) Climate	(1) Tomato
(b) Soybean	(2) Teak plants
(c) Vegetable nursery	(3) Physical factor
(d) Glass house	(4) *Glycine max*
	(5) Glass
	(6) *Oryza sativa*

(C) Find the odd one out among the following : (4)

(1) Budding / Grafting / Cutting / Seed

(2) Vishal / Varlaxmi / Savitri / Godavari

(3) ATIC / Computer / Laptop / Cellphone

(4) Sodium benzoate / Acetic acid /Citric acid / Guar gum

(D) Write whether the following statements are 'True' or 'False': (5)

(1) Onion seedlings are raised in permanent nursery.

(2) Hurda party is a type of event and recreational agrotourism.

(3) In general market only one or two commodities are transacted.

(4) Tractor driver is a skilled labour.

(5) The shade net houses are popular in temperate countries.

Q. 2. Write answers of the following questions in brief (Any FIVE): [10]

(i) Write a short note on Asepsis.

(ii) Enlist the types of artificial vegetative reproduction.

(iii) Write the uses of cellphone.

(iv) Give the process flow chart for preparation of fruit Jam.

(v) Write a note on roguing.

(vi) Write the uses of Mango.

(vii) Draw flow chart of processing sequence for complete cleaning of soybean seed.

Q. 3. Answer the following questions (Any FOUR) : [12]

(1) Write the advantages of organic farming.

(2) What are the functions of farm manager?

(3) Write information on the following points regarding soybean:

(i) Origin

(ii) Soil

(iii) Varieties (any two)

(4) Enlist the various intercultivation practices in sugarcane and describe earthing up.

(5) What are the uses of computer and internet in agriculture?

(6) Give the scope for green house technology.

(7) Write the aims of organic farming.

Q. 4. Answer the following questions (Any FOUR) : [16]

(1) Give the importance of mushroom.

(2) Write the advantages of Agrotourism.

(3) Define parthenogenesis and give its causes.

(4) Describe the agricultural market on the basis of location.

(5) Write the importance of seed processing.

(6) Give the advantages of nursery.

Q. 5. **(A)** Answer the following questions in detail (Any ONE) : (6) **[14]**

(1) Give information about Banana crop with respect to following points :

(i) Soil

(ii) Climate

(iii) Planting distance

(iv) Yield /ha

(v) Uses

(2) Define Farm Manager and give the qualities of farm manager.

(B) Answer the following questions in detail (Any ONE) : (8)

(1) Give information on the following points with respect to wheat crop :

(i) Botanical name and family

(ii) Soil and climate

(iii) Uses

(iv) Harvesting and yield/ha

(2) Give information on the following points regarding hybrid seed production of H-4 cotton crop :

(i) Parents – (a) female
(b) male

(ii) Seed rate/ha – (a) female
(b) male

(iii) Isolation distance and planting ratio

(iv) Emasculation

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