

Total No. of Questions: 6

Total No. of Printed Pages:2



Faculty of Agriculture
End Sem Examination May-2024

AG3CO44

Protected Cultivation & Secondary Agriculture

Programme: B.Sc. (Hons.) Branch/Specialisation: Agriculture

Duration: 3 Hrs.

Maximum Marks: 50

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. What should be the direction of a polyhouse? **1**
(a) North – South (b) North – East
(c) South – East (d) South – West
- ii. Which one of the following is not a greenhouse gas? **1**
(a) Methane (b) Hydrogen
(c) Nitrous oxide (d) Ozone
- iii. What is the most common use of a mulch? **1**
(a) Weed control (b) Moisture conservation
(c) Pest control (d) High yield
- iv. The main purpose of shade net house is _____. **1**
(a) Hardening plants (b) Plant propagation
(c) Nursery raising (d) All of these
- v. The most used irrigation system under protected cultivation is _____. **1**
(a) Drip irrigation system (b) Sprinkler irrigation system
(c) Water cane system (d) Channel method
- vi. Another name of drip irrigation is _____. **1**
(a) GH irrigation (b) Surface irrigation
(c) Trickle irrigation (d) Wire irrigation
- vii. What is angle of repose of Rye in degree? **1**
(a) 28 (b) 35 (c) 40 (d) 45
- viii. Which is not a physical property of food? **1**
(a) Shape (b) Size (c) Color (d) Viscosity

[2]

- ix. Disc separator separates materials on the basis of _____. **1**
(a) Length (b) Width (c) Weight (d) Shape
- x. Spiral separator separates the grains on the basis of _____. **1**
(a) Weight (b) Sphericity
(c) Roundness (d) Size
- Q.2 i. What is shade net green house? **1**
ii. What is polyhouse? **2**
iii. Enlist and describe different types of green house on the basis of shape. **5**
- OR iv. Explain the role of sunlight and temperature in relation to greenhouse environment. **5**
- Q.3 i. What is trickle irrigation? **1**
ii. Describe the advantages of mulching. **3**
iii. Explain the ventilation system used in greenhouse. **4**
- OR iv. Define fan type cooling system used in greenhouse. **4**
- Q.4 i. What is broad bed furrow? **2**
ii. Write the different Irrigation systems used in greenhouse. **6**
- OR iii. Describe about passive solar greenhouse with diagram. **6**
- Q.5 i. Write the names of thermal properties of food grain. **2**
ii. What is viscosity? **2**
iii. Describe engineering properties of food materials. **4**
- OR iv. What is angle of repose? Write different applications of angle of repose. **4**
- Q.6 Attempt any two:
i. What is EMC? Explain it with equation. **4**
ii. Describe the working principle of cyclone separator with the help of diagram. **4**
iii. Explain the working principle of screw conveyer with the help of diagram. **4**

Marking Scheme

AG3CO44- Protected Cultivation and Secondary Agriculture

Q.1	i)	a	1
	ii)	b	1
	iii)	b	1
	iv)	d	1
	v)	a	1
	vi)	c	1
	vii)	a	1
	viii)	d	1
	ix)	a	1
	x)	c	1
Q.2	i.	definition	1
	ii.	definition	2
	iii.	Explanation with diagram	2,3
OR	iv.	Explanation	2,3
Q.3	i.	definition	1
	ii.	Advantage	3
	iii.	Explanation with diagram	2,2
OR	iv.	Explanation with diagram	2,2
Q.4	i.	definition	2
	ii.	Explanation with diagram	3,3
OR	iii.	Explanation with diagram	3,3
Q.5	i.	definition	2
	ii.	definition	2
	iii.	Explanation	2,2
OR	iv.	Explanation	2,2
Q.6	i.	Definition with equation	2,2
	ii.	Explanation with diagram	2,2
	iii.	Explanation with diagram	2,2