CBSE | DEPARTMENT OF SKILL EDUCATION

AGRICULTURE (SUBJECT CODE - 408)

MARKING SCHEME FOR CLASS X (SESSION 2022-2023)

Max. Time: 2 Hours Max. Marks: 50

General Instructions:

- 1. Please read the instructions carefully.
- 2. This Question Paper consists of 21 questions in two sections: Section A & Section B.
- 3. Section A has Objective type questions whereas Section B contains Subjective type questions.
- 4. Out of the given (5 + 16 =) 21 questions, a candidate has to answer (5 + 10 =) 15 questions in the allotted (maximum) time of 2 hours.
- 5. All questions of a particular section must be attempted in the correct order.
- 6. SECTION A OBJECTIVE TYPE QUESTIONS (24 MARKS):
 - i. This section has 05 questions.
 - ii. Marks allotted are mentioned against each question/part.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.

7. SECTION B – SUBJECTIVE TYPE QUESTIONS (26 MARKS):

- i. This section has 16 questions.
- ii. A candidate has to do 10 questions.
- iii. Do as per the instructions given.
- iv. Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

Q.No.	Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)	
i.	ANSWER	1
	a. Turn on	
ii.	ANSWER	1
	Smart, measurable, Achievable, Realistic And Timely.	
iii.	ANSWER	1
	TRUE	
iv.	ANSWER	1
	a. Internal	
v.	ANSWER	1
	d. Extensive	
vi.	ANSWER	1
	Icons	

Q. 2	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	ANSWER	1
	a. Maize	
ii.	ANSWER	1
	c. Ancardiaceae	
iii.	ANSWER	1
	d.Seeds	
iv.	ANSWER	1
	a. Bacteria	
v.	ANSWER	1
	c.Viral disease	
vi.	ANSWER	1
	d. Human milk	

Q. 3	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	ANSWER	1
	b.Peas	
ii.	ANSWER	1
	a.10-12%	
iii.	ANSWER	1
	a. Honeybee	
iv.	ANSWER	1
	d.Rhizobium	
v.	ANSWER	1
	a. Peas	
vi.	ANSWER	1
	a. Seed	

Q. 4	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	ANSWER	1
	c. Cucurbitaceae	
ii.	ANSWER	1
	d. Black quarter	

iii.	ANSWER	1
	a. Fowl pox	
iv.	ANSWER	1
	c. Guinea pig	
v.	ANSWER	1
	c. Strawberry	
vi.	ANSWER	1
	d.Breeder seed	

Q. 5	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	ANSWER	1
	c. Immature mango	
ii.	ANSWER	1
	a. White button mushroom	
iii.	ANSWER	1
	c. Mulberry	
iv.	ANSWER	1
	c. PSB	
v.	ANSWER	1
	a. New Delhi	
vi.	ANSWER	1
	c.Karnal	

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills (2 x 3 = 6 marks) Answer each question in 20 - 30 words.

Q. 6	Entrepreneur- A self employed person who is always trying to make his /her business better by taking risks and trying new ideas an entrepreneur.	
Q. 7	ANSWER Monthly Maintenance of computer i. Transfer photographs to computer and delete from drive ii. Organise photos into folders or albums iii. Clean up 'Download' folder iv. Uninstall unused programs and apps v. Run disk-cleaner software vi. Run full system virus scan	2
Q. 8	ANSWER Stress: Stress can be defined as our emotional, mental, physical and social reaction to any perceived demands or threats. Simple ways of stress managements are: Time management, physical exercise, healthy diet, Positive thinking, organising academic life, punctuality in doing work, adequate sleep, holidays with family and friends, discussion with family.	2
Q. 9	ANSWER Qualities of a successful entrepreneur are: • They are confident. They believe in themselves and their abilities. • They keep trying new ideas in their business. • They are patient. • They are creative and think differently about business ideas. • They take responsibility for their actions. • They take decisions after thinking about them. • They work hard. • They do not give up when they face a difficulty.	2

ANSWER	2
We can become responsible about our own environment by :	
1. Re-using paper, glass, plastic, water, etc. 2. taking cloth bags to market carrying	
fruits and vegetables. 3. donate things we do not use such as clothes, books,	
furniture, food, etc. 4. Buy and eat seasonal fruits and vegetables from local growers.	
5. Repair leaking taps and pipes to avoid wasting water. 6. Sort and treat garbage	
before disposing	
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Answer any 4 out of the given 6 questions in 20 - 30 words each (2 x 4 = 8 marks)

Q. 11	ANSW	/ER			2
	High yielding varieties of rice: Mahamaya, GK 5003, Pusa 33, Pusa 169, Mehsuri,				
			, Pusa 33, HKR-127, Bhrig	•	
		SKAU 23, SKAU 27, GK 5003, Gauri, Sweta , Ratnagiri 24, Rajeshwari, PR 108, PR			
			t Dhan 11, VL Dhan 221, IR		
			mati 370, Pusa Basmati 1	•	
		•	ugandh 4, Pusa Sugandh 6		
			1121, Pusa basmati 6, Pus	a Basmati 1509	_
Q. 12	ANSW				2
	_		Ascochyta blight, yellow r	nosaic, powdery mildew,	
	-	ercospora leaf spot etc.			
	_		vny mildew. Yellow mosaic	, white rust, alternaria	
		ight, tika leaf spot etc.			
Q. 13	ANSW				2
		ntages of inbreeding			
		. •	osity, the stamping ability	or prepotency of inbred	
	line increases.				
	2. It helps to eliminate lethals and semi lethals due to homozygosity.				
	3. It increases genetic variance between lines and reduces genetic variance within				
Q. 14	lines. ANSWER			2	
Ψ	The basic steps involved in ice cream manufacture include mixing of ingredients,				
	pasteurization, homogenization, ageing, freezing, hardening and storage				
Q. 15	ANSWER				2
-	S.	Type of milk	Milk fat	Milk SNF	1
	No.	,	(% not less than)	(% not less than)	
	1.	Double toned milk	1.5	9.0	
	2.	Toned milk	3.0	8.5	
	3.	Standardized milk	4.5	8.5	
	4.	Full cream milk	6.0	9.0	
	5.	Skimmed milk	Not more than 0.5	8.7	
Q. 16	ANSW	/ER	•		2
-	Major classes of seed are: Nucleus seed, Breeder's seed, Foundation seed & Certified				
	seed.				

Answer any 3 out of the given 5 questions in 50-80 words each $(4 \times 3 = 12 \text{ marks})$

Q. 17	ANSWER	4
	Major pests of rice: Stem borer and Leaf folder	
	Major diseases of rice- Leaf and neck blast and Bacterial leaf blight	
	Description about shoot borer	
	Nature of damage - Symptoms of stem borer damage are deadhearts and	
	whiteheads. Whiteheads are discolored panicles with empty or partially filled grains. Larvae feed on the tissues around the node.	
	Management - Adopt seedling root dip treatment in 0.05% Chlorpyriphos emulsion	
	for one minute before transplanting in endemic areas. Apply Carbofuran 3G @ 20 kg ha ⁻¹ or Phorate 10 G @ 12.5 kg ha ⁻¹ or Fenitrothion 50EC @ 0.1%.	
Q. 18	ANSWER	4
	Major pests of mango: Mango leaf hopper, mealy bug, stone weevil, fruit fly Major diseases of mango: Powdery mildew & Anthracnose	
	Symptoms of malformation- Plants both in nursery and field are affected by this	
	malady. The symptoms of this malady are characterized by the transformation of	
	inflorescence into compact mass with predominating male flowers	
Q. 19	ANSWER	4
	Different processed milk products are - Cheese, ice cream, milk powder, paneer,	
	ghee, dhahi etc.	
	Ghee	
	Ghee is 99.5 per cent milk fat manufactured by either cream or butter. Cream	
	from milk is churned into butter followed by conversion into ghee. The cream is	
	placed in a metal vessel and melted at low heat. Then it is boiled to about 110 to	
	120°C with constant stirring over a low fire to evaporate the moisture and prevent	
	scorching. The clear fat is filtered into glass bottles or plastic pouches containers.	
	The colour of cow ghee is deep yellow while that from buffalo milk is white. The	
	taste is usually characteristic of the milk fat.	
Q. 20	ANSWER	4
	Honey bee castes	
	Every honey bee colony comprises of a single queen, a few hundred drones and	
	several thousand worker castes of honey bees. Queen is a fertile, functional female,	
	worker is a sterile female and the drone is a male insect.	
	1. Duties of a queen - The only individual which lays eggs in a colony. (Mother	
	of all bees).	
	2. Duties of a drone - Their important duty is to fertilize the queen.	
	3. Duties of a worker -First three weeks- house hold duty and Rest of the life-	
	out door duty.	

Q. 21 ANSWER

4

Characteristics/attributes of quality seed

- **1. Genetic purity:** Genetic purity refers to the percentage of contaminationof the seed planted must equal or exceed ... generation of propagation. For example, **Breeder seed 100%, Foundation seed 99%, certified seed 98%.**
- **2. Physical purity:** Physical purity of seed is the proportion of pure seed componentcrop should be 98% and seed lot should be free fromother field impurities.
- 4. Germination percentage: The quality seed should have germination percentage according to the standard of Indian in the field.
- **5. Vigour:** Seed vigour is the sum total of those properties lot during germination and seedling emergence. In general it is the potential of seedgood yield.
- **6. Viability:** The viability of the seed is a measure of seed conditions. It is measured through tetrazolium chloride test.
- **5. Moisture content:** The moisture content is the amount of water have optimum moisture content in good quality seed. **For example, Cereals: 10-12 %, Pulses: 7-9% and Oilseeds:6-7%, Vegetables: 5%**