CBSE | DEPARTMENT OF SKILL EDUCATION

AGRICULTURE (SUBJECT CODE-808)

MARKING SCHEME FOR CLASS XII (SESSION 2025-2026)

Max. Time: 3 Hours Max. Marks: 60

General Instructions:

- 1. Please read the instructions carefully.
- 2. This Question Paper consists of 24 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 (6 + 18 =) 24 questions, a candidate has to answer (6 + 11 =) 17 questions in the allotted (maximum) time of 3 hours.
- 5. All questions of a particular section must be attempted in the correct order.
- 6. SECTION A OBJECTIVE TYPE QUESTIONS (30 MARKS):
 - i. This section has 06 questions.
 - ii. There is no negative marking.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.

7. SECTION B – SUBJECTIVE TYPE QUESTIONS (30 MARKS):

- i. This section contains 18 questions.
- ii. A candidate has to do 11 questions.
- iii. Do as per the instructions given.
- iv. Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE OUESTIONS

Q. No.	QUESTION	Source Material (NCERT/PSSCIVE/ CBSE Study Material)	Unit/ Chap. No.	Page no. of source materia	Marks
Q. 1	Answer any 4 out of the given 6 questi	ons on Employability S	kills (1 x 4 = 4	marks)	
i.	b. A group of words that communicates a complete thought	NCERT	Unit I	9	1
ii.	B. Use air purifiers with HEPA filters	NCERT	Unit V	118	1
iii.	a. Borderline	NCERT	Unit II	35	1
iv.	c. Professional	NCERT	Unit IV	83	1
v.	a. Specific	NCERT	Unit II	30	1
vi.	b. Row	NCERT	Unit II	41	1
Q. 2	Answer any 5 out of the given 7 questi	ons (1 x 5 = 5 marks)			
i.	Paddy straw mushroom and White button mushroom	CBSE Study Material	Unit V	183, 176	1
ii.	Tomato ketchup and Tomato Puree	CBSE Study Material	Unit III	86	1
iii.	Mo and Co	CBSE Study Material	Unit I	14	1
iv.	Chrysanthemum, Azadirachta	CBSE Study Material	Unit V	196	1
v.	120 g	CBSE Study Material	Unit I	5	1
vi.	Shade house and mist house	CBSE Study Material	Unit V	207	1
vii.	Nitrogen, Phosphorus and Potassium	CBSE Study Material	Unit I	14	1
Q. 3	Answer any 6 out of the given 7 questi	ons (1 x 6 = 6 marks)			

i.	Hygroscopic water	CBSE Study Material	Unit I	49	1
	Basin method and Furrow method	CBSE Study Material	Unit I	54	1
iii.	Vitamin A	CBSE Study Material	Unit I	6	1
iv.	Fe and Mn	CBSE Study Material	Unit I	16	1
iv.		Material			
v.	Maize	CBSE Study Material	Unit I	61	1
vi.	Eisenia fetida and Eiseniella tetraedra	CBSE Study Material	Unit V	204	1
vii.	Buddhist garden and Japanese garden	CBSE Study Material	Unit V	194	1
Q. No.	QUESTION	Source Material (NCERT/PSSCIVE/ CBSE Study Material)	Unit/ Chap. No.	Page no. of source materia	Marks
Q. 4	Answer any 5 out of the given 6 questi	ons (1 x 5 = 5 marks)			
i.	Apis dorsata (The rock- bee)	CBSE Study Material	Unit V	159	1
ii.	Ghaziabad, U.P.	CBSE Study Material	Unit II	76	1
iii.	Prevention of Food Adulteration (PFA) Act, 1954 and Essential Commodity Act, 1955	CBSE Study Material	Unit IV	156	1
iv.	Direct evaporation cooling	CBSE Study Material	Unit III	93	1
v.	Endoparasite	CBSE Study Material	Unit I	67	1
vi.	Conditioning/Hardening	CBSE Study Material	Unit III	102	1
Q. 5	Answer any 5 out of the given 6 quest	ons (1 x 5 = 5 marks)			
i.	Sodium Benzoate	CBSE Study Material	Unit IV	123	1
ii.	Queen	CBSE Study Material	Unit V	159	1
iii.	Phosphorus	CBSE Study Material	Unit I	17	1
iv.	Pineapple and Cashewnut	CBSE Study Material	Unit II	80	1
v.	Jelmeter test	CBSE Study Material	Unit IV	131	1
vi.	M. Nicolas Appert	CBSE Study Material	Unit III	87	1
Q. 6	Answer any 5 out of the given 6 questi	ons (1 x 5 = 5 marks)		· · · · · · · · · · · · · · · · · · ·	
i.	Castor cake and cotton cake	CBSE Study Material	Unit I	31	1
ii.	Hazard Analysis and Critical Control Point (HACCP)	CBSE Study Material	Unit IV	154	1
iii.	Hydro cooling and Forced air cooling	CBSE Study Material	Unit III	88	1
iv.	Onion and potatoes	CBSE Study Material	Unit III	90	1
v.	K ⁺	CBSE Study Material	Unit I	15	1
vi.	Cashewnut and almond	CBSE Study Material	Unit I	6	1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Q. No.	QUESTION	Source Material (NCERT/PSSCIVE/ CBSE Study Material)	Unit/ Chap. No.	Page no. of source material	Marks
Answ	er any 3 out of the given 5 questions on Employa	bility Skills in 20 – 30 w	ords each ((2 x 3 = 6 ma	rks)
Q. 7	Four reasons why listening attentively is	NCERT	UNIT I	3,4	½X4=2
	important-				
	1. to obtain information				

		Ī			
	 to understand to enjoy 				
	4. to learn				
	5. to build and maintain relationships				
	6. to resolve conflicts				
	Any other, Any four				
Q. 8	Four characteristics of entrepreneurship	NCERT	UNIT IV	80	½X4=2
	are-				
	1. An economic activity done to create,				
	develop and maintain a profit-				
	oriented organisation.				
	It begins with identifying an				
	opportunity as a potential to sell and				
	make profit in the market.				
	3. Deals with optimisation in utilisation				
	of resources.				
	4. It is the ability of an enterprise and an				
	entrepreneur to take risks.				
	Any other, Any four				
Q. 9	Four ways to maintain positive attitude-	NCERT	UNIT II	25	1⁄2X4=2
	1. Start the day with a morning				
	routine.				
	2. Feed the mind with positivity, read				
	motivating books, listen to music				
	with uplifting lyrics, watch				
	inspiring movies, etc.				
	3. Be proactive.				
	4. Focus on constructive and positive				
	things.				
	5. Learn from failures.				
	6. Learn to focus on the present.				
	7. Move towards your goals and				
	dreams.				
	Any other, Any four				
Q. 10	Four advantages of presentation	NCERT	UNIT III	63	½X4=2
	software-				
	1. They are interesting as they have				
	features like images, videos,				
	animation and music.				
	Making changes in digital				
	presentations is easy.				
	3. A digital presentation can be shown to				
	a much larger audience by projecting				
	on a screen.				
	4. The presentation can be printed and				
	distributed to the audience.				
	Any other, Any four				
Q. 11	Four benefits of green jobs are-	NCERT	UNIT V	115	1⁄2X4=2
	1. increase the efficiency of energy				
	and , G,				
	2. raw material.				
	Z. Taw Material.				

	3. reduce greenhouse gas emissions.				
	control waste and pollution.				
	protect and restore ecosystems.				
	6. support adaptation to the effects				
	of climate change.				
	Any other, Any four				
Answe	er any 3 out of the given 5 questions in 20 – 30 w	ords each (2 x 3 = 6 ma	rks)		
Q. 12	Organic agriculture is a unique production	CBSE Study Material	Unit II	76	2
	management system which promotes and				
	enhances agro-ecosystem health, including				
	biodiversity, biological cycles and soil				
	biological activity, and this is accomplished				
	by using on-farm agronomic, biological and				
	mechanical methods in exclusion of all				
	synthetic off-farm inputs.				
Q. 13	The Indian Banglore Method, The Indian	CBSE Study Material	Unit I	32, 33,	2
Q: 20	Indore Method, Indian Indore heap method,	obol otday material	0	34	_
	Indian Coimbatore method, NADEP method,				
	ADCO Method.				
Q. 14	The capability of soil to produce specified	CBSE Study Material	Unit I	11	2
	crop yield under well-defined and specified				
	systems of management of inputs and				
	environmental conditions.				
Q. 15	There are three main principles:	CBSE Study Material	Unit IV	120	2
	A. Prevention / delay the microbial				
	decomposition of the food. B. Prevention / delay the shelf decomposition				
	of the food.				
	C. Prevention of damage by insects, animals,				
Q. 16	mechanical causes <i>etc.</i> The Mega Food Parks Scheme (MFPS) is the	CBSE Study Material	Unit III	113	2
Q. 10	flagship program of the Ministry of Food	CDSL Study Waterial	O'llic III	113	_
	Processing Industries (MFPI) during the 11th				
	five-year plan. The scheme aims to accelerate				
	the growth of food processing industry in the				
	country through facilitating establishment of				
	strong food processing infrastructure backed				
	by an efficient supply chain.				
Answe	er any 2 out of the given 3 questions in 30–50 wo	ords each (3 x 2 = 6 mar	ks)	I .	
Q. 17	Problems of Jelly making	CBSE Study Material	Unit IV	132	3
\cdot	Jelly is failed to set: -Jelly is failed to set due	02020000,			
	to addition of too much sugar, lake of acid the end-point, cooking below the end-point,				
	cooking beyond the end-point and prolonged				
	cooking.				
	Cloudy or foggy jelly: - Cloudy or foggy jelly due to use of non-clarified juice or extract, use				
	of immature fruits, over-cooking, non-removal				
	of scum, faulty pouring and premature				
	gelation.				
	Formation of crystals in jelly: -Formation of				
	crystals in jelly due to addition of excess sugar and also to over-concentration of jelly.				
	Sugar and also to over concentration of jelly.		<u> </u>		

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	Syneresis or weeping of jelly: - Syneresis or weeping of jelly is the phenomenon of				
	spontaneous exudation of fluid from a gel is				
	called syneresis and weeping and is caused by				
	excess of acid, too low concentration of				
	sugar, insufficient pectin, premature gelation				
	and fermentation				
Q. 18	Puffing: - Puffed grains are often used as	CBSE Study Material	Unit III	106	3
	breakfast cereals or as snack food. During				
	puffing, grains are exposed to a very high				
	steam pressure which causes the grain to				
	burst open. The puffed grains can be				
	further processed by toasting, coating or mixing with other ingredients.				
	Flaking: - Flaked cereals are partially				
	cooked and can be used as quick-cooking or				
	ready to eat foods. The grains are softened				
	by partially cooking in steam. They are then				
	pressed or rolled into flakes which are				
	dried. The flakes are eaten crisp and should				
	have a moisture content of below 7%.				
Q. 19	Stunted growth may occur because of reduction in call division.	CBSE Study Material	Unit I	16, 17	3
	reduction in cell division.				
	Pale green to light yellow colour (chlorosis) appears first on older leaves,				
	usually starting at the tips.				
	3. Depending on the severity of deficiency,				
	the chlorosis could result in the death				
	and/or dropping of the older leaves.				
	4. Plants more susceptible to weather stress				
	and disease.				
	5. N deficiency causes early maturity in				
	some crops, which results in a				
Δηςινιο	significant reduction in yield and quality. er any 3 out of the given 5 questions in 50–80 wo	ords each	rks)		
Q. 20	Importance of Soil Organic Carbon: -While	CBSE Study Material	Unit I	26 27	4
Q. 20	the agricultural sector has the ability to	CBSE Study Waterial	Offici	26, 27, 28	*
	impact the carbon cycle on a large scale,			20	
	often through the release of carbon,				
	farmers have a vested interest in retaining				
	and increasing soil organic carbon for				
	individual fields because soil and yield tend				
	to improve when the soil organic carbon				
	level increases. Higher soil organic carbon				
	promotes soil structure or tilth meaning				
	there is greater physical stability. This				
	improves soil aeration (oxygen in the soil)				
	and water drainage and retention, and				
	reduces the risk of erosion and nutrient				
	leaching. Soil organic carbon is also				
	important to chemical composition and				
	biological productivity, including fertility				
	and nutrient holding capacity of a field. As carbon stores in the soil increase, carbon is				
	carbon stores in the son increase, carbon is				

—sequestered, and the risk of loss of other nutrients through erosion and leaching is reduced. An increase in soil organic carbon typically results in a more stable carbon cycle and enhanced overall agricultural productivity, while physical disturbances of the soil can lead to a net loss of carbon into the surrounding environment due to formation of carbon dioxide (CO₂).

Management practices that can increase soil organic carbon

Management practices	Functions and explanation
P rocessor	
Conservation tillage practices	Conservation tillage practices including no-till management aid in storing soil organic carbon, keeping the physical stability of the soil intact. When reduced-till systems are combined with residue management and manure management, soil organic carbon can increase over time.
Crop residue management	Returning crop residue to the soil adds carbon and helps to maintain soil organic matter.
Cover crops	Cover crops can increase soil carbon pools by adding both root and above ground biomass. Covers also reduce the risk of soil erosion and the resulting loss of

	carbon with soil particles. Cover crops also enhance nutrient cycling and increase soil health over time. Adding organic				
Manure and compost	amendments such as manure or compost can directly increase soil carbon, and also result in increased soil aggregate stability. This enhances the biological buffering capacity of the soil, resulting in greater				
Crop selection	yields and yield stability over time. Perennial crops				
	Perennial crops eliminate the need for yearly planting and increase soil organic carbon by root and litter decomposition post-harvest. Crops with greater root massin general add to root decomposition and physically bond aggregates together. Using high residue annual crops can also help reduce net carbon loss from cropping systems.				
farming through National Project on National Project on scheme, assistance financial outlay up to and Rs. 60 lakhs res	ndia is promoting organic various schemes like Organic Farming: - Under Organic Farming (NPOF) up to 25% and 33% of a ceiling of Rs. 40 lakhs spectively is provided as y through NABARD for	CBSE Study Material	Unit II	80, 81	4

establishment of bio- pesticides/biofertilizers production units and agro waste compost production units respectively. Under NPOF, a total of 56 nos. biofertilizers production units and 17 nos. of fruit/vegetables waste compost units have been established in the country. Government has been advocating integrating use of chemical fertilizers and organic manures including biofertilizers for increasing production of major crops.

National Horticulture Mission: - Besides, under National Horticulture Mission (NHM) and Horticulture Mission for North East & Himalayan States (HMNEH), financial assistance is provided for setting up vermicompost production units @ 50% of the cost subject to a maximum of Rs. 30,000/- per beneficiary, for adoption of organic farming @ Rs.10,000/- per hectare for maximum area of 4 hectare per beneficiary and for organic farming certification @ Rs.5.00 lakh for a group of farmers covering an area of 50 hectares.

Rashtriya Krishi Vikas Yojna: - Assistance for promotion of organic farming on different components are also available under Rashtriya Krishi Vikas Yojana (RKVY) with the approval of State Level Sanctioning Committee.

National Food Security Mission: - Under National Food Security Mission (NFSM) on Pulses, including Accelerated Pulses Production Programme (A3P), assistance for popularizing Rhizobium culture/Phosphate Solubilizing bacteria is provided to the farmers under cluster demonstrations.

Promoting the use of Biofertilizer: - Central Government has notified biofertilizers like Rhizobium, Azotobacter, Azospirillum, Acetobacter, PSB, KMB, Zinc Solubilizing bacteria under Fertilizer Control Order (FCO). Similarly, under Initiative for Nutritional Security through Intensive Millets Promotion (INSIMP) Programme, Phosphate Solubilising Bacteria/Azotobacter culture is provided to farmers part the as of technology demonstration. Further, under National Project on Management of Soil Health and Fertility (NPMSH&F) financial assistance of Rs 500 per hectare is provided to promote use of organic manure.

ICAR Contribution in Promoting Organic Farming: - All India Network Project on Soil Biodiversity-Biofertilizers is implemented by Indian Council of Agricultural Research (ICAR) for R & D on biofertilizers. The ICAR has developed technologies to prepare various types of organic manures such as

	phosphocompost, vermi compost, municipal				
	solid waste compost etc. Improved and				
	efficient strains of biofertilizers specific to				
	different crops and soil types are being				
	developed under Network Project on				
	biofertilizers.				
	The financial assistance is provided on the				
	basis of project proposals received from States				
	including Maharashtra. Indian Council of				
	Agricultural Research (ICAR) under Network				
	Project on Organic Farming, with lead center				
	at Project Directorate for Farming Systems				
	Research Modipuram is developing package of				
	practices of different crops and cropping				
	system under organic farming in different				
	agro-ecological regions of the country.				
Q. 22	Post-Harvest Factors	CBSE Study Material	Unit III	100, 101	4
	Water relations: The termination of life of the				
	harvested flowers depends on water uptake				
	and transport, water loss and the capacity of				
	the flower tissue to retain its water. A water				
	deficit and wilting develop, when the				
	transpiration exceeds absorption of water.				
	The rate of water uptake of cut flowers				
	·				
	depends on transpiration pull, temperature				
	and composition of solutes. Disruption of				
	water columns in stem vessels by air				
	embolism and resistance to water flow in				
	stems, also develop water deficit.				
	Acidification of water and addition of wetting				
	agent and flower food in the holding solution				
	markedly improve water uptake of cut				
	flowers.				
	Respiration: The rate of respiration depends				
	on quantity of carbohydrates available in the				
	harvested flowers, temperature and the use of				
	certain chemicals to regulate it. With higher				
	temperature, there is faster rate of respiration				
	and burning of the tissue. Consequently, the				
	life of flowers is shortened.				
	Relative humidity: It has, bearing on the				
	transpiration rate. Higher the humidity in the				
	air, less is the transpiration rate and vice-versa.				
	Growth regulators: Postharvest life of flowers				
	can be controlled by growth regulators. Water				
	relation changes associated with flower				
	senescence are also influenced by growth				
	regulators. Cytokinins delay senescence of				
	some cut flowers. Depending upon the				
	concentrations, GA in some cases promotes				
	longevity of flowers, while this is also used in				
<u> </u>	<u> </u>	<u> </u>	ĵ	<u> </u>	

bud opening solution. The IAA promotes ethylene production of isolated carnation petals. In contrast, the senescence and abscission of poinsettia flowers is delayed by auxin.

Preservative solution: Preservatives in the form of tablets or powder are prepared from a mixture of chemicals-sugars, germicides, salts and growth regulators. Various types of conditioners are sugar and biocide, antiethylene compound, and hydrated compound. The flowers like gladiolus, carnation, chrysanthemum and freesia are benefited most by the pretreatment.

Anti-ethylene compounds in preservative solutions reduce the action of ambient ethylene as well as autocatalytic production of ethylene by fresh cut flowers. Fresh cut flowers responding to silver thio sulphate are carnation, orchids, gypsophila, gladiolus, gerbera, snapdragon, alstromaeria, agapanthus, anemone and sweet pea. Greatest improvement in cut flower quality and longevity is obtained when DICA or DDMH were combined with sucrose.

Pre-cooling and storage: Precooling is essential for removing field heat from flowers. This is done either by forced air cooling or hydrocooling to bring down temperature from 20°-30°C to 1°C in a relatively short period. Other methods are room cooling and vacuum cooling. Flowers can be stored for a longer period at low temperature. There are two methods of cold storage-wet and dry. Wet method is short-term storage, in which cut stems are dipped in water. Dry storage is more labour-intensive method and costly. The controlled atmosphere based on reduction of respiration rates, conservation of respirable substrates during, storage, and delay in ethylene-triggered changes cause senescence. It involves the use of increased level of CO2 and decreased levels of O₂ in the atmosphere, low storage temperature and prevention of the build-up of endogenous ethylene.

Packing and transporting: Lower rate of transpiration, respiration and cell division during transportation, are essential for long

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	storage life and keeping quality. Before				
	packing, flowers should be dried. They should				
	be treated with systemic insecticides and				
	miticides. Packing must ensure protection of				
	flowers against physical damage, water loss				
	and external conditions detrimental to				
	transported flowers. Boxes made of				
	corrugated fibre boards are good. Flowers				
	_				
	sensitive to geotropic bending must be				
	transported in an upright position. The flowers				
	should be transported at an optimal low				
	temperature. The relative humidity of the air				
	during precooling and shipment of cut flowers				
	should be maintained at the level of 95-98%.				
	Lack of light during prolonged transportation				
	particularly at high temperature causes				
	yellowing of leaves in many flowers. Shipment				
	of flowers is usually done by road, air and sea.				
	For short distance and time period shorter				
	than 20 hr, cut flowers may be transported in				
	insulated trucks without refrigeration after				
	precooling and proper packing. Air shipment is				
	quickest and usually the temperature is not				
	controlled during the flight the flowers should				
	be pulsed with STS prior to air shipment.				
Q. 23					
	Principles of Landscape Gardening	CBSE Study Material	Unit V	185, 186	4
-4-		CBSE Study Material	Unit V	185, 186	4
	A. Balance: -Balance is a psychological sense of	CBSE Study Material	Unit V	185, 186	4
-,	A. Balance: -Balance is a psychological sense of equilibrium. As a design principle,	CBSE Study Material	Unit V	185, 186	4
-,	A. Balance: -Balance is a psychological sense of equilibrium. As a design principle, balanceplaces the parts of a visual in an	CBSE Study Material	Unit V	185, 186	4
	A. Balance: -Balance is a psychological sense of equilibrium. As a design principle, balanceplaces the parts of a visual in an aesthetically pleasing arrangement. In visual	CBSE Study Material	Unit V	185, 186	4
	A. Balance: -Balance is a psychological sense of equilibrium. As a design principle, balanceplaces the parts of a visual in an aesthetically pleasing arrangement. In visual images, balance is formal when both sides are	CBSE Study Material	Unit V	185, 186	4
	A. Balance: -Balance is a psychological sense of equilibrium. As a design principle, balanceplaces the parts of a visual in an aesthetically pleasing arrangement. In visual images, balance is formal when both sides are symmetrical in terms of arrangement. Balance	CBSE Study Material	Unit V	185, 186	4
	A. Balance: -Balance is a psychological sense of equilibrium. As a design principle, balanceplaces the parts of a visual in an aesthetically pleasing arrangement. In visual images, balance is formal when both sides are symmetrical in terms of arrangement. Balance is informal when sides are not exactly	CBSE Study Material	Unit V	185, 186	4
	A. Balance: -Balance is a psychological sense of equilibrium. As a design principle, balanceplaces the parts of a visual in an aesthetically pleasing arrangement. In visual images, balance is formal when both sides are symmetrical in terms of arrangement. Balance is informal when sides are not exactly symmetrical, but the resulting image is still	CBSE Study Material	Unit V	185, 186	4
	A. Balance: -Balance is a psychological sense of equilibrium. As a design principle, balanceplaces the parts of a visual in an aesthetically pleasing arrangement. In visual images, balance is formal when both sides are symmetrical in terms of arrangement. Balance is informal when sides are not exactly	CBSE Study Material	Unit V	185, 186	4
	A. Balance: -Balance is a psychological sense of equilibrium. As a design principle, balanceplaces the parts of a visual in an aesthetically pleasing arrangement. In visual images, balance is formal when both sides are symmetrical in terms of arrangement. Balance is informal when sides are not exactly symmetrical, but the resulting image is still balanced. Informal balance is more dynamic than formal balance and normally keeps the	CBSE Study Material	Unit V	185, 186	4
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	A. Balance: -Balance is a psychological sense of equilibrium. As a design principle, balanceplaces the parts of a visual in an aesthetically pleasing arrangement. In visual images, balance is formal when both sides are symmetrical in terms of arrangement. Balance is informal when sides are not exactly symmetrical, but the resulting image is still balanced. Informal balance is more dynamic than formal balance and normally keeps the learner's attention focused on the visual message. There are three main types of	CBSE Study Material	Unit V	185, 186	4
	A. Balance: -Balance is a psychological sense of equilibrium. As a design principle, balanceplaces the parts of a visual in an aesthetically pleasing arrangement. In visual images, balance is formal when both sides are symmetrical in terms of arrangement. Balance is informal when sides are not exactly symmetrical, but the resulting image is still balanced. Informal balance is more dynamic than formal balance and normally keeps the learner's attention focused on the visual message. There are three main types of balance, horizontal balance, vertical balance, radial balance.	CBSE Study Material	Unit V	185, 186	4
	A. Balance: -Balance is a psychological sense of equilibrium. As a design principle, balanceplaces the parts of a visual in an aesthetically pleasing arrangement. In visual images, balance is formal when both sides are symmetrical in terms of arrangement. Balance is informal when sides are not exactly symmetrical, but the resulting image is still balanced. Informal balance is more dynamic than formal balance and normally keeps the learner's attention focused on the visual message. There are three main types of balance, horizontal balance, vertical balance, radial balance. B. Proportion: -Proportion refers to the	CBSE Study Material	Unit V	185, 186	4
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	A. Balance: -Balance is a psychological sense of equilibrium. As a design principle, balanceplaces the parts of a visual in an aesthetically pleasing arrangement. In visual images, balance is formal when both sides are symmetrical in terms of arrangement. Balance is informal when sides are not exactly symmetrical, but the resulting image is still balanced. Informal balance is more dynamic than formal balance and normally keeps the learner's attention focused on the visual message. There are three main types of balance, horizontal balance, vertical balance, radial balance. B. Proportion: -Proportion refers to the relative size and scale of the various elements in a design. The issue is the relationship	CBSE Study Material	Unit V	185, 186	4
	A. Balance: -Balance is a psychological sense of equilibrium. As a design principle, balanceplaces the parts of a visual in an aesthetically pleasing arrangement. In visual images, balance is formal when both sides are symmetrical in terms of arrangement. Balance is informal when sides are not exactly symmetrical, but the resulting image is still balanced. Informal balance is more dynamic than formal balance and normally keeps the learner's attention focused on the visual message. There are three main types of balance, horizontal balance, vertical balance, radial balance. B. Proportion: -Proportion refers to the relative size and scale of the various elements in a design. The issue is the relationship between objects, or parts, of a whole. This	CBSE Study Material	Unit V	185, 186	4
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C. Perspective: -Perspective is created through the arrangement of objects in two-dimensional space to look like they appear in real life. Perspective is a learned meaning of the relationship between different objects seen in space.

Is the dark rectangle in front of a circle, or beside a semi-circle? Perspective adds realism to a visual image. The size of a rectangle means little until another object gives it the size of a desk, or the size of a building. Perspective can be used to draw the audience into a visual. Perception can be achieved through the use of relative sizes of objects, overlapping objects, and blurring or sharpening objects.

- **D. Emphasis:** -Emphasis is used by artists to create dominance and focus in their work. Artistscan emphasize color, value, shapes, or other art elements to achieve dominance. Various kinds of contrast can be used to emphasize a center of interest.
- **E. Movement:** -The way the artist leads the eye in, around, and through a composition. The path the eye follows. Motion or movement in a visual image occurs when objects seem to be moving in a visual image. Movement in a visual image comes from the kinds of shapes, forms, lines, and curves that are used.
- **F. Pattern:** -Pattern uses the art elements in planned or random repetition to enhance surfaces or paintings or sculptures. Patterns often occur in nature, and artists use similar repeated motifs to create pattern in their work. Pattern increases visual excitement by enriching surface interest.
- **G. Repetition:** -Repetition works with pattern to make the artwork seem active. The repetition of elements of design creates unity within the artwork.
- **H. Rhythm:** -Rhythm is the repetition of visual movement of the elements-colors, shapes, lines, values, forms, spaces, and textures. Variety is essential to keep rhythms exciting and active, and to avoid monotony. Movement and rhythm work together to create the visual equivalent of a musical beat.

	I. Variety: -Variety provides contrast to				
	harmony and unity. Variety consists of the				
	differences in objects that add interest to a				
	visual image. Variety can be achieved by using				
	opposites or strong contrasts. Changing the				
	size, point of view, and angle of a single object				
	can add variety and interest to a visual image.				
	J. Harmony: -Harmony in visual design means				
	all parts of the visual image relate to and				
	complement each other. Harmony pulls the				
	pieces of a visual image together. Harmony can				
	be achieved through repetition and rhythm.				
	Repetition reemphasizes visual units,				
	connecting parts and creating an area of				
	attention. Rhythm is the flow depicted in a				
	visual. Rhythm helps direct eye movement.				
	Patterns or shapes can help achieve harmony.				
	By repeating patterns in an interesting				
	arrangement, the overall visual image comes				
	together.				
	together.				
	K. Unity: -Unity means the harmony of the				
	whole composition. The parts of a composition				
	made to work together as a total visual theme.				
	Unity is the relationship among the elements				
	of a visual that helps all the elements function				
	together. Unity gives a sense of oneness to a				
	visual image. In other words, the words and				
	the images work together to create meaning.				
	the images work together to create meaning.				
	L. Contrast: -Contrast is in opposition to				
	harmony and should not be overdone.				
	Occasional contrasts are used to create an eye-				
	catching feature in a garden; for example,				
	contrasting foliage texture, colour or form				
	provides a focal point in the garden.				
Q. 24	Components of Jam	CRSE Study Material	Unit IV	129,133	4
Q. 24	Fruit Pulp: -45%	CBSE Study Material	OTHE IV	143,133	4
	TSS: -68%				
	Acidity: - 0.5-0.6%				
	Water: - 33-38%				
	Processing of Jam				
	Selection of fruit: -Fully ripe fruit should be				
	harvested for Jam making. Jam is best fruit for				
	Jam making. Pineapple, carrot, strawberry,				
	banana, peach, pear also used for jam making.				
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	Washing/Cleaning of fruit: - Fruit should be				

Preparation of Fruit: -Fruit should be peeled and remove of core material for Jam making. **Blanching:** - Blanching is the heating of fruit or vegetables for a short time with either steam or water, and is an essential step before canning, drying or freezing of food.

This heating process is not meant to cook the food but to inactivate substances that would otherwise adversely affect the nutrient content, colour, flavour or texture during subsequent processing and storage.

Cooking with Sugar: - Fruit pulp start cooking with 1/3 quantity with sugar. Aftersome time add remaining sugar.

Adding of Citric Acid: - For enhancement of test citric acid should be added at 103°Ctemperature.

Judging of End-Point: -

Sheet or Flake test: -A small portion of jam is taken out during boiling, in a spoon or wooden ladle and cooled slightly, it is then allowed to drop. If the product falls off in the form of a sheet or flakes instead of flowing and a continuous stream or syrup, it means that the end-point has been reached and product is ready, boiling is continued till the sheet is positive.

Temperature: -105°C.

TSS: - 68-70%

Weight Test: - If total weight of jam is 1.5 time is more than sugar weight, jam is prepared.

Packing: -Jam should be fill in glass jar.

Storage: -Jam should be stored at dry and cool place.

