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農業技能測定試験（耕種農業全般）学科試験問題の範囲 英語版
The Coverage of Academic Examination of the Agriculture Skill Assessment Test (crop farming) English Edition

National Chamber of Agriculture
Agriculture Skill Assessment Test Office

1. General knowledge regarding crop farming

(1) Growth and development of each organ

Matters relating to growth and development of each organ.

(2) Cultivation methods

The following matters relating to cultivation methods.

① Sowing, ② Seedling and planting, and ③ irrigation

(3) Cultivation management

The following matters relating to cultivation management.

① Type of soil, ② Acidity of soil, ③ Elements of fertilizers, ④ Fertilization, ⑤ Fertilization improvement, ⑥ Pinching, ⑦ Artificial pollination, ⑧ Flower picking/fruit thinning, ⑨ Training/pruning, ⑩ Fruit covering, ⑪ Harvest, and ⑫ Breeding and production of nursery stocks

2. Health and Safety

The following matters relating to the health and safety associated with crop farming jobs.

① Inspection method of safety devices, etc. before starting work

② Organization necessary for crop farming jobs

③ Method of checking the safety of work machines for crop farming jobs and the safety of surroundings

④ Wearing of protective equipment, etc. and confirmation of the safety of clothing

⑤ Safety ensured by using safety devices and other methods

⑥ Prevention of hazards to occupational health

⑦ Emergency measures and evacuation in an emergency

3. Rice cultivation

(1) Characteristics of cultivated crops

Matters relating to the characteristics of items and cropping types of cultivated crops.

(2) Cultivation environment

The following matters relating to cultivation environment

① Temperature, ② Light (day length), ③ Water, ④ Nutrition, ⑤ Soil

(3) Covering materials

Matters relating to plastic film covering materials.

(4) Other facilities and equipment

Matters relating to a greenhouse for raising seedlings.

(5) Control of pests and weeds

Matters relating to control of pests and weeds.

(6) Harvest

Matters relating to harvest.

4. Upland farming and vegetables

(1) Characteristics of cultivated crops

Matters relating to the characteristics of items and cropping types of cultivated crops.

(2) Cultivation environment

The following matters relating to cultivation environment

① Temperature, ② Light (day length), ③ Water, ④ Nutrition, ⑤ Soil

(3) Covering materials

Matters relating to plastic film covering materials.

(4) Other facilities and equipment

Matters relating to tunnel, mulching, and precooling facilities.

(5) Control of pests and weeds

Matters relating to control of pests and weeds.

(6) Harvest

Matters relating to harvest.

5. Protected horticulture

(1) Characteristics of cultivated crops

Matters relating to the characteristics of items and cropping types of cultivated crops.

(2) Types and structures of facilities

The following matters relating to types and structures of facilities.

① General types and structures, ② Glass greenhouse, ③ Plastic greenhouse, ④ Rain-shelter greenhouse, and ⑤ Detached type and connected type

(3) Covering materials

The following matters relating to covering materials for facilities.

① Glass, ② Non-woven cloth, ③ Film, and ④ Biodegradable covering materials

(4) Attached facilities and instruments

The following matters relating to attached facilities and instruments.

① Heating, ② Ventilation, ③ Carbon dioxide generation device, ④ Pest control device, ⑤ Irrigation device, and ⑥ Nutriculture device

(5) Environmental management

The following matters relating to the management of the environment in facilities.

① Temperature, ② Light, ③ Moisture, ④ Humidity, and ⑤ Complex environmental control

(6) Nutriculture

Matters relating to the method and medium for nutriculture.

(7) Other facilities and equipment

Matters relating to tunnel, mulching, and precooling facilities.

(8) Control of pests and weeds

Matters relating to control of pests and weeds.

(9) Harvest

Matters relating to harvest.

6. Fruit trees

(1) Characteristics of cultivated crops

Characteristics of the life and annual growth of fruit trees.

(2) Variety

Matters relating to varieties of fruit trees and harvesting period of each variety.

(3) Production of nursery stocks

Production of nursery stocks and grafting methods.

(4) Cultivation management

Matters relating to cultivation management such as fruiting management, flower picking/fruit thinning, and training/pruning.

(5) Covering materials and plant growth regulators

Matters relating to plastic film covering materials and plant growth regulators.

(6) Facilities and equipment

Matters relating to irrigation, mulching, and storage facilities.

(7) Control of pests and weeds, and management of orchards

Matters relating to control of pests and weeds, and management of orchards.

(8) Harvest and storage

Matters relating to harvest and storage of fruits.

7. Operation of this document

The coverage of academic examination of the Agriculture Skill Assessment Test (Crop Farming) shall be operated based on the original text prepared in Japanese.

2019年8月30日

August 30, 2019

農業技能測定試験（耕種農業全般）実技試験問題の範囲 英語版

The Coverage of Practical Skill Examination of the Agriculture Skill Assessment Test (Crop Farming) English Edition

National Chamber of Agriculture
Agriculture Skill Assessment Test Office

1. Rice cultivation

(1) Observation of soil

- Measurement of acidity of soil using equipment, etc.

(2) Handling of fertilizers

- Distinction among fertilizers.
- Fertilizer design and fertilization.

(3) Handling of seeds

- Distinction among processed seeds.

(4) Handling of materials and instruments

- Understanding of the purpose of using covering materials and distinction among covering materials.

(5) Works regarding cultivation

- Transplant, harvest.

(6) Health and safety

- Inspection of protective equipment, etc., wearing of protective clothing, and treatment after spraying chemicals.
- Inspection and safe handling of agricultural machinery, etc.
- Safe handling of power supplies and fuel oil.
- Dilution and storage of agrochemicals.
- Safety confirmation of sprayers.

2. Upland farming and vegetables

(1) Observation of soil

- Typical types of soil.
- Measurement of acidity of soil using equipment, etc.

(2) Handling of fertilizers

- Distinction among fertilizers.
- Fertilizer design and fertilization.

(3) Handling of seeds

- Distinction and weighing of seeds.
 - Distinction between seeds germinated in a bright or dark place.
- (4) Handling of materials and instruments
- Understanding of the purpose of using covering materials and distinction among covering materials.
- (5) Works regarding cultivation
- Sowing and irrigation.
 - Growth diagnosis of crops.
 - Planting of seedlings.
- (6) Health and safety
- Inspection of protective equipment, etc., wearing of protective clothing, and treatment after spraying chemicals.
 - Inspection and safe handling of agricultural machinery, etc.
 - Safe handling of power supplies and fuel oil.
 - Dilution and storage of agrochemicals.
 - Safety confirmation of sprayers.

3. Protected horticulture

- (1) Observation of soil
- Typical types of soil.
 - Measurement of acidity of soil using equipment, etc.
- (2) Handling of fertilizers
- Distinction among fertilizers.
 - Fertilizer design and fertilization.
- (3) Environmental management
- Handling of humidity/temperature meters.
 - Measurement of maximum, minimum, and current temperatures.
- (4) Handling of materials and instruments
- Handling of covering materials and instruments.
 - Understanding of the purpose of using covering materials and distinction among covering materials.
- (5) Works regarding cultivation
- Distinction among methods of raising seedlings.
 - Growth diagnosis of crops.
 - Planting of seedlings or sowing.
- (6) Health and safety
- Inspection of protective equipment, etc., wearing of protective clothing, and treatment after spraying chemicals.
 - Inspection and safe handling of agricultural machinery, etc.
 - Safe handling of power supplies and fuel oil.

- Dilution and storage of agrochemicals.
4. Fruit trees (evergreen fruit trees and deciduous fruit trees)
- (1) Observation of soil
- Typical types of soil.
 - Measurement of acidity of soil using equipment, etc.
- (2) Handling of fertilizers
- Distinction among fertilizers.
 - Fertilizer design and fertilization.
- (3) Handling of seeds and nursery stocks
- Handling of seeds, and production of nursery stocks (including grafted trees).
 - Veneer grafting.
 - Grafting rootstocks and scions.
- (4) Works regarding cultivation
- ① Common to fruit trees
- Fruit thinning.
 - Understanding of fruiting habit and basic pruning.
- ② Deciduous fruit trees
- Judgment of appropriate time, artificial pollination, fruit covering, training, and harvest.
- ③ Evergreen fruit trees
- Judgement of appropriate time and harvest.
- (5) Health and safety
- Inspection of protective equipment, etc., wearing of protective clothing, and treatment after spraying chemicals.
 - Inspection and safe handling of agricultural machinery, etc.
 - Safe handling of power supplies and fuel oil.
 - Dilution and storage of agrochemicals.
 - Safety confirmation of sprayers.

5. Operation of this document

The coverage of practical skill examination of the Agriculture Skill Assessment Test (Crop Farming) shall be operated based on the original text prepared in Japanese.