The Principal,
Khalsa College,
Amritsar.

Sir,

Kindly find attached the General Instruction for the Test and Fee structure, syllabus for
M.Sc. Agriculture Entrance test 2020 (as per the proceedings no. 6442 dated 03.06.2020) to be
conducted by the college. Allow it to be uploaded on the College website for information of the
candidates.

Thanking you,

Yours Sincerely,

(Dr. Randeep Kaur)
Head

[Signature]

[Date: 9/6/2020]

[Notations and initials]
The test will be conducted in the following disciplines:

1. M.Sc. Ag. (Agricultural Economics)
2. M.Sc. Ag. (Agronomy)
3. M.Sc. Ag. (Entomology)
4. M.Sc. Ag. Horticulture (Fruit Science + Vegetable Science)
5. M.Sc. Ag. (Soil Science & Agricultural Chemistry)

General Instructions:

1. The question paper shall have two SECTIONS:
   - **Section-I**: General Agriculture, which will be compulsory for all the candidates.
   - **Section-II**: A candidate has to opt for at least one discipline out of the following. However, a maximum of two disciplines can be selected as per candidate’s eligibility:
     1. Agronomy
     2. Entomology
     3. Horticulture (Fruit Science / Vegetable Science)
     4. Soil Science
     5. Agricultural Economics
     Any change in choice of discipline will not be allowed after the submission of application form.

2. There will be 120 multiple choice type questions (Section-I: 60; Section-II: 60) each carrying one mark which are to be attempted by the candidates in the allotted time of 2 hours.

3. Candidates appearing for two disciplines will be required to sit for additional Section-II paper chosen by him/her consisting of 60 questions which is to be attempted in additional allotted time of 60 minutes.

4. Each correct answer will carry one mark whereas ¼ mark will be deducted for every wrong answer.

5. Minimum percentage of marks required in the Entrance Test to be eligible for Counseling is 20% with negative marking.

6. **Fee Structure**: A candidate has to pay Rs. 1200/- for the entrance test (Rs. 1000/- for additional option) in addition to the cost of prospectus.

   (Dr. Randeep Kaur) 9.6.2021
   Head
KHALSA COLLEGE AMRITSAR

1. Syllabus Section-I

General Agriculture:


Section - II:

Agronomy:


Entomology:

nature and type of damage by insect-pests. Major insect pests of various agricultural and horticultural crops and their stored/processed products along with their management. Mites, rodents, birds and microorganisms associated with stored grains and their management. Household pests. Importance of beneficial Insects-beekeeping, sericulture and lac culture. Major parasitoids and predators used in biological control. Important species of pollinator, weed killers and scavengers with their importance.

Horticulture:

*Fruit Science:* Layout and establishment of orchards, Training and pruning, Seed dormancy and germination. Stock scion relationship, Dwarfing rootstocks, different methods of propagation, containers, media, mixture, propagation structure, Nursery act. Ecophysiological requirement, varieties, Horti-agro techniques, plant protection measures, cultivation practices, special problems, maturity indices, ripening, harvesting, transportation, quality improvement, processing and packaging technologies of major fruits such as citrus, mango, guava, apple, ber, grapes, papaya, pineapple, banana, pomegranate, sapota, litchi, pear, peach and plum.


Soil Science & Agricultural Chemistry:


Agricultural Economics:

Theory of consumer behaviour, theory of demand, elasticity of demand, indifference curve analysis, theory of firm, cost curves, theory of supply, price determination, market classification, concept of macroeconomics, money and banking, national income. Agricultural marketing—role, practice, institutions, problems and reforms, role of capital and credit in agriculture, crop insurance, credit institutions, cooperatives, capital formation in agriculture,
agrarian reforms, globalization, WTO & its impact on Indian agriculture. Basic principles of farm management, concept of farming system and economics of farming systems, agricultural production economics-scope and analysis, factor-product relationship, marginal cost and marginal revenue, farm planning and budgeting, Agricultural finance: nature and scope. Time value of money, Compounding and discounting. Agricultural credit: meaning, definition, need, classification. Credit analysis: 4R’s, 5C’s and 7 P’s of credit, repayment plans. History of financing agriculture in India. Commercial banks, nationalization of commercial banks. Lead bank scheme, regional rural banks, scale of finance. Higher financing agencies, RBI, NABARD, AFC, Asian Development Bank, World Bank, role of capital and credit in agriculture; credit institutions, co-operatives and agrarian reforms in India.