

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

FACULTY OF SCIENCE

B. Sc. I Year Practical Examination

AGROCHEMICALS AND FERTLIZERS Paper III

Time: 6 Hours

Marks: 100

N.B.:- i) Record your observation and obtain the signature of Examiner.

ii) Use of cyclostyled or printed procedure for the experiment is permitted.

Q. 1 Identify the given organic compound that includes Nature, detection of elements, functional group and physical constant. 30

Q. 2 Estimate the available chlorine in the given sample of Bleaching powder.

OR

Determine the acid value of given oil sample. 30

Q. 3 Estimate the amount of Iron by using potassium dichromate.

OR

Determine the percentage purity of sodium nitrite using potassium permanganate solution.

OR

Determine the molecular weight of given organic acid. 30

Q. 4 Record Book. 10

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AGROCHEMICALS AND FERTLIZERS Paper IV

Time: 6 Hours

Marks: 100

N.B.:- i) Record your observation and obtain the signature of Examiner.

ii) Use of cyclostyled or printed procedure for the experiment is permitted.

Q. 1 Determine the surface tension of a given liquid by Stalagnometer. 30

OR

Determine the cell constant of conductivity cell.

OR

Estimate the soluble salt in solution by Conductometer.

Q. 2 Determine the Viscosity of a liquid by Viscometer. 30

OR

Determine the apparent specific gravity of soil sample.

Q. 3 Determine the pH of water sample by pH meter. 30

OR

Determine the electrical conductivity of given water sample.

Q. 4 Record Book. 10

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B. Sc. II Year Practical Examination

AGROCHEMICALS AND FERTLIZERS Paper VII

Time: 6 Hours

Marks: 100

N.B.:- i) Record your observation and obtain the signature of Examiner.

ii) Use of cyclostyled or printed procedure for the experiment is permitted.

Q. 1 Determine apparent specific gravity of soil sample. 30

OR

Determine water holding capacity of soil sample.

OR

Determine percentage expansion of soil sample.

Q. 2 Determine absolute specific gravity of soil sample. 30

OR

Determine the moisture from soil sample.

Q. 3 Determine Ferrous from HCl extract. 30

OR

Determine Calcium from HCl extract.

OR

Determine soil colour using soil kit.

Q. 4 Record Book. 10

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B. Sc. II Year Practical Examination

AGROCHEMICALS AND FERTLIZERS Paper VIII

Time: 6 Hours

Marks: 100

N.B.:- i) Record your observation and obtain the signature of Examiner.

ii) Use of cyclostyled or printed procedure for the experiment is permitted.

Q. 1 Perform qualitative test of given sample. 30

OR

Determine mineral ash from oil cake.

Q. 2 Estimate reducing sugar from cane juice sample. 30

OR

Estimate non-reducing sugar from given juice sample.

Q. 3 Determine acid value from given oil sample. 30

OR

Estimate vitamin C from given sample.

Q. 4 Record Book. 10

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B. Sc. III Year Practical Examination

AGROCHEMICALS AND FERTILIZERS Paper XI

Time: 6 Hours

Marks: 100

N.B.:- i) Record your observation and obtain the signature of Examiner.

ii) Use of cyclostyled or printed procedure for the experiment is permitted.

Q. 1 Perform qualitative test of given sample of fertilizer. 20

OR

Determine potassium from soil using soil kit.

Q. 2 Determine percentage acidity of given fertilizer sample. 20

OR

Estimate organic matter from given sample of manure.

OR

Estimate Nitrogen from given compost sample.

Q. 3 Estimate available zinc from given fertilizer sample. 20

OR

Estimate available phosphate from given fertilizer sample.

OR

Q. 4 Excursion report on Poultry farming. 20

OR

Excursion report on Dairy farming.

Q. 5 Record Book. 10

Viva-voce 10

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B. Sc. III Year Practical Examination

AGROCHEMICALS AND FERTLIZERS Paper XII

Time: 6 Hours

Marks: 100

N.B.:- i) Record your observation and obtain the signature of Examiner.

ii) Use of cyclostyled or printed procedure for the experiment is permitted.

Q. 1 Determine the electrical conductivity of given water sample. 20

OR

Determine total soluble salt from the given soil extract.

Q. 2 Determine salinity of water sample. 20

OR

Estimate ascorbic acid from given juice sample.

Q. 3 Prepare the following product- 20

Apple Jam

OR

Guava Jelly

OR

Lime Juice

Q. 4 Excursion report on Fishery/Apiculture/Preservation Industry. 20

Q. 5 Record Book. 10

Q. 6 Viva-voce. 10