

Dr. Babasaheb Ambedkar Marathwada University

Faculty of Science

B.Sc. II Year (New) Practical Examination

ENVIRONMENTAL SCIENCE

PAPER – VII (Air Pollution and it's Management)

Time : 3 hours

Marks : 100

Batch No

Date.....

	Marks
Q.1 Determination of dust fall measurement by using HVA sampler/ Tiles (Sedimentation)/ dust fall jar.	25
Q.2 A) Determination of Co by Co detector	10
B) Detection ofgas and it's effect on plants	10
OR	
C) Measurement of Precipitation by rain gauge.	10
D) Determination of wind velocity by Anaemometer.	10
Q.3. Detection and identification of pollen grains (Any four).	20
OR	
Detection and identification of Fungal colonies by PDA (Any four).	20
Q.4. Measurement of atmospheric moisture by Psychrometer.	20
OR	
Measurement of atmospheric Co ₂ by Zirocondroff's method.	20
Q.5 Viva-Voce	10
Q.6 Record Book	05

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PAPER – VIII

Time : 4 hours

Marks : 100

Batch No

Date.....

Marks

Q.1 Determination of Fluorides/Sodium in water.	20
Q.2 Determination of Ca/Potassium in water.	20
Q.3 Determination of 'Mg'.	20
Q.4 Measurement of Noise by db meter	20

OR

Identify and describe the spots (Spot A, B, C & D).

Q.5 Viva-Voce	10
Q.6 Record Book	10

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B.Sc. III Year Practical Examination (New)

ENVIRONMENTAL SCIENCE

Subject : Environmental Toxicology and Natural Resource Management

PAPER – XI

Course Code: 302

Time : 3 hours

Marks : 100

Batch No

Date.....

Marks

Q.1 Estimation of..... 20

Q.2 Examine effect of Pesticide on growth of plant/seed germination 20

OR

Perform Jar test of provided sample.

Q.3. Determination of COD of provided sample. 20

OR

Determination of quantitative estimation of soil carbonates and bicarbonates.

Q.4. Study the effect of Heavy metal by Bioassay method. 20

OR

Estimation of.....

Q.5 Seminar Report 10

Q.6 Record Book and Viva- voce 10

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B.Sc. III Year Practical Examination (New)

ENVIRONMENTAL SCIENCE

Subject : water and Waste Water Management

PAPER – XII

Course Code: 304

Time : 3 hours

Marks : 100

Batch No

Date.....

	Marks
Q.1 Determination of Alkalinity/Acidity/ Total Solids.	20
Q.2 Determination of Chlorides / Hardness / Co ₂ / BOD.	20
Q.3 Determination of Turbidity / Residual Chlorine / DO / Oil and Grease.	20
Q.4 Determination of Ammonia/ Phosphate / Sulphates / Nitrates	20
Q.5 Excursion Report	10
Q.6 Record Book and Viva-Voce	10

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B.Sc. I Year (New) Practical Examination

ENVIRONMENTAL SCIENCE

COURSE CODE:103 PAPER – III

THE ENVIRONMENTAL & THE ORGANISM

Time : 3 hours
: 100

MAX.Marks

Batch No

Date.....

	Marks
Q.1 Estimation of organic content of soil	20
OR	
Determination of water holding capacity of soil.	
Q.2 Determination of NPK by soil testing kit.	20
OR	
Study of vegetation by simple Quadrature method.	
Q.3. Determination of the soil pH.	20
OR	
A) Determination of soil temperature by soil thermometer.	10
B) To measure the percolation rate through the soil.	10
Q.4. Determination of temperature & residual, chlorine of water sample.	20
OR	
To study the soil texture.	
Q.5 A) Viva-Voce	10
B) Record Book	10

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B.Sc. I Year (New) Practical Examination
ENVIRONMENTAL SCIENCE
COURSE CODE:104 PAPER – IV
ENVIRONMENTAL MICROBIOLOGY & ENVIRONMENTAL CHEMISTRY

Time : 3 hours

MAX.Marks : 100

Batch No

Date.....

Marks

Q.1 Report the potability of water sample by the bacteriological analysis method –
MPN technique

OR

Perform the differential biochemical test (IMViC test) for faecal and non
faecal coli forms. 20

Q.2 Reveal the Morphology and arrangement of bacteria in given culture by
Monochrom Staining Method. 20

OR

Differentiate the bacteria in the given culture by Gram's staining method.

Q.3. Isolate bacteria in a mixed culture by streak plate, pour plate and spread
plate method. 20

OR

Comment on principle and working of Instruments (any.....)20.
Colorimeter, pH meter, Turbidometer, Spectrophotometer, Physical balance

Q.4. Sterlization of glassware and culture media. 20

OR

Preparation of culture media.

OR

Spotting

- 1) Study of Fungi
- 2) Study of laboratory equipment

Q.5 A) Viva-Voce 10
B) Record Book 10