

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

Faculty of science

B. Sc. I year Practical Examination

Polymer Chemistry

Paper III

Time: 4Hrs

Date:

Centre:

Batch No.

Max. Marks: 100

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Q1. Determine saponification value of given plasticizer/oil & fat.	30
Q2. Determine Acid value of given polymer.	30
Q3. Purify the given sample by distillation method.	30
Q4. Viva-voce	05
Record book	05

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B. Sc. I year Practical Examination

Polymer Chemistry

Paper IV

Time: 4Hrs

Date:

Centre:

Batch No.

Max. Marks: 100

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Q1. Determine the viscosity of given liquid sample by Ostwald's U tube viscometer.	30
OR	
Determine the viscosity of given liquid sample by ford cup method	
Q2. Prepare the polymer film of given material.	30
Q3. Analyse given polymer sample.	30
Q4. Viva-voce	05
Record book	05

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Faculty of science  
B.Sc. II year Practical Examination  
Polymer Chemistry  
Paper VII

Time: 4Hrs

Date:

Centre:

Batch No.

Max. Marks: 100

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|---|----|
| Q1. Analyse the given monomer sample.         | 30 |
| Q2. Prepare a polymer by.....                 | 30 |
| Q3. Purify the given monomer by distillation. | 30 |

OR

Purify the given sample by fractional distillation.

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|---------------|----|
| Q4. Viva-voce | 05 |
| Record book   | 05 |
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Faculty of science  
B. Sc. II year Practical Examination  
Polymer Chemistry  
Paper VIII

Time: 4Hrs

Date:

Centre:

Batch No.

Max. Marks: 100

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|--|----|
| Q1. Identify _____   | 30 |
| Q2. Analyse given plasticizer / filler.                        | 30 |
| Q3. Identify given mixture / sample chromatographic technique. | 30 |

OR

Find out the end group by conductometrically / pH metrically.

- |               |    |
|---------------|----|
| Q4. Viva-voce | 05 |
| Record book   | 05 |
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B. Sc. III year Practical Examination

Polymer Chemistry

Paper XI

Time: 4Hrs

Date:

Centre:

Batch No.

Max. Marks: 100

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Q1.	Prepare sample of PS / PVC/ PMMA by solution / bulk / suspension polymerisation. Prepare a sample of alkyd resin.	30
	OR	
	Prepare a sample of unsaturated polymer.	
	OR	
Q2.	Determine total / temp / perm hardness of H <sub>2</sub> O Determine free chloride in water.	30
	OR	
	Determine hydroxyl value / iodine value of given polymer sample.	
Q3.	Determine MFI of given polymer sample. Determine COD in waste water.	30
	OR	
	Determine COD in waste water.	
	OR	
	Prepare PVOH from PV acetate.	
Q4.	Viva-voce Record book	05 05

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B. Sc. III year Practical Examination

Polymer Chemistry

Paper XII

Time: 4Hrs

Date:

Centre:

Batch No.

Max. Marks: 100

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- Q1. Determine molecular weight of given polymer sample by viscometry. 30  
OR  
Determine molecular weight of given polymer sample by end group analysis.
- Q2. Prepare suitable sample of Laminates. 30  
OR  
Prepare moulding powder using saw dust / moulding articles.  
OR  
Evaluate the given polymer sample by std. Test method  
OR  
Precipitate the given polymer sample.
- Q3. Determine the softening range of given polymer sample using vicat softening pt. Method. 30  
OR  
Purify the given solvent by steam distillation.  
OR  
Purify given solvent by vacuum distillation.
- Q4. Viva-voce 05  
Record book 05
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