## Mathematics - Part I

| Chapter | Page No. | Dropped Topics/Chapters from evaluation |
| :---: | :---: | :---: |
| Chapter 1: Relations andFunctions | 12 $13-14$ 15 $16-25$ 26 $27-28$ $29-31$ $31-32$ | 1.4 Composition of Functions and Invertible Function (upto 'This leadsto the following definition') <br> Full Pages <br> Examples 24 and 25 <br> Full Pages <br> Ques. 12 and 13 <br> Examples 45 and 49 <br> Ques. 1-3, 6-7, 9, 11-14, 18-19 <br> Summary Points 11-13 <br> and 15-19 |
| Chapter 2: Inverse <br> Trigonometric Functions | 42-44 <br> 45-47 <br> 47-48 <br> 49-51 <br> 51-52 $53$ | 2.3 Properties of Inverse Trigonometric <br> Functions (Except $\begin{aligned} & \cdot \sin \left(\sin ^{-1} x\right)=x, x \in[-1,1] \\ & \left.\cdot \sin ^{-1}(\sin x)=x, x \in\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]\right) \end{aligned}$ <br> Examples 4, 7 and 8; Alternative Solution of Example 5 <br> Ques. 3, 4, 6, 12, 14, 15 <br> Examples 10, 11, 12, 13 <br> Ques. 8, 12, 17 <br> (Miscellaneous Exercise) <br> Summary Points 8-13 |


| Chapter 3:Matrices | $90-92$ $92-97$ <br> 98 $100-101$ $102$ | 3.7 Elementary Operations <br> (Transformation) of a Matrix <br> 3.8.1 Inverse of Matrices by Elementary Operations(Retain Ques. 18 of Exercise 3.4) <br> Example 26 <br> Ques. 1-3 and 12 <br> (Miscellaneous Exercise) <br> Third Last Point ofSummary |
| :---: | :---: | :---: |
| Chapter 4: Determinants | $\begin{aligned} & 109-121 \\ & 137-143 \end{aligned}$ $144$ | 4.3 Properties of Determinants Miscellaneous Examples30-32 and 34 <br> Ques. 2, 4-6, 11-15 and 17 <br> (Miscellaneous Exercise) <br> Summary Points 4-11 |
| Chapter 5: Continuity and Differentiability | $\begin{gathered} 165-166 \\ 168 \\ 184-186 \\ 186-187 \\ \\ 192-193 \end{gathered}$ | Examples 22 and 23 <br> Example 27 <br> 5.8 Mean Value Theorem <br> Exercise 5.8 and <br> Miscellaneous Example 44 <br> (ii) <br> Ques. 19 (MiscellaneousExercise) and Summary points 5 (derivatives of $\left.\cot ^{-1} X, \sec ^{-1} X, \operatorname{cosec}^{-1} X\right), 7$ and 8 |
| Chapter 6: Application ofDerivatives | $\begin{gathered} \hline 206-216 \\ 236-238 \\ 242-244 \\ 245 \end{gathered}$ | 6.4 Tangents and Normals 6.5 Approximations Examples 45, 46 Ques. 1, 4-5 and 20-24 (Miscellaneous Exercise) <br> Points 4-10 in theSummary |
| Answers | $\begin{gathered} 268-270 \\ 273-274 \\ 276 \\ 282-283 \\ 284-285 \end{gathered}$ | Answers of Exercises |

Mathematics - Part II

| Chapter | Page No. | Dropped Topics/Chapters from evaluation |
| :---: | :---: | :---: |
| Chapter 7:Integrals | $\begin{gathered} 290-291 \\ 291-292 \\ 298-299 \\ 613-616 \\ 331-334 \\ 352-354 \\ 355 \end{gathered}$ | Points (xi)-(xiii) in the List <br> of Derivatives <br> 7.2.1 Geometrical Interpretation of Indefinite <br> Integral <br> 7.2.3 Comparison betweenDifferentiation and Integration <br> 7.6.3 Type of Integral <br> 7.7.1 Definite Integral as <br> the Limit of a Sum <br> Ques. 19, 32, 40 and 44 Point 2 in the <br> Summary <br> (xiv) and (xv) in Some <br> Standard Integrals |
| Chapter 8: Application ofIntegrals | $\begin{gathered} \hline 363-365 \\ 366 \\ 366-372 \\ 373-376 \end{gathered}$ | 8.2.1 The Area of the Region Bounded by a Curveand a Line Ques. 3 and 6-11 in Exercise 8.1 <br> 8.3 Area between TwoCurves <br> Examples 11, 13 and 14 <br> Ques. 2-3, 6-7, 8-15, 18- <br> 19 (Miscellaneous Exercise) <br> Last Two Points of theSummary |
| Chapter 9: <br> Differential <br> Equations | $\begin{aligned} & 385-391 \\ & 415-416 \\ & 420-422 \end{aligned}$ | 9.4 Formation of Differential Equations whose General Solution is Given <br> Example 25 <br> Ques. 3, 5 and 15 (Miscellaneous Exercise), Point Six of the Summary |


| Chapter 10: VectorAlgebra | $\begin{aligned} & 616-619 \\ & 619-622 \end{aligned}$ | 10.7 Scalar Triple Product <br> 10.7.1 Coplanarity of ThreeVectors |
| :---: | :---: | :---: |
| Chapter 11: Three Dimensional Geometry | $\begin{gathered} 465 \\ 469-471 \\ 477-478 \\ 479-497 \\ 497-499 \\ 500-501 \\ 502-503 \end{gathered}$ | 11.2.1 Relation between theDirection Cosines of a Line <br> 11.3.2 Equation of a Line Passing through Two GivenPoints, Ques. 8-9 (Exercise11.2) <br> 11.6 Plane <br> 11.7 Coplanarity of TwoLines <br> 11.8 Angle between TwoPlanes <br> 11.9 Distance of a Pointfrom a Line <br> 11.10 Angle between a Lineand a Plane Ques. 1, 2, 5, 7-8, 10-19, 21-23 (Miscellaneous Exercise) <br> Summary Points 13, 20-24 <br> Full Pages |
| Chapter 12: Linear Programming | $514-527$ $528-529$ | 12.3 Different Types ofLinear Programming Problems <br> Summary Points 2-9 |
| Chapter 13: Probability | $\begin{aligned} & \text { 557-558 } \\ & 558-559 \\ & 559-564 \\ & \\ & 565-571 \\ & 572-578 \\ & 579-581 \\ & 583 \\ & 585-586 \end{aligned}$ | 13.6 Random Variables andIts Probability Distributions <br> Example 22 and 23 <br> 13.6.1 Probability Distribution of a RandomVariable 13.6.2 Mean of RandomVariables <br> 13.6.3 Variance of a Random Variable 13.7 Bernoulli Trials and Binomial Distribution <br> Example 34 and 35 <br> Ques. 5-7, 9-11 <br> (Miscellaneous Exercise) <br> Last 3 Points of the Summary |


| Answers | 594 |  |
| :--- | :---: | :--- |
|  | $596-599$ | Answers of Exercises |
|  | 601 |  |
|  | $604-612$ |  |

