

## EXAMINATION SYLLABUS 2020-2021

**Grades: XII**

**Subject: Mathematics**

This exam syllabus is produced to facilitate teachers, students and the test setters to teach, learn and assess subject specific learning. This syllabus is condensed to align the course content with the teaching learning time during COVID 19.

### DETAILED SYLLABUS

| CHAPTER                                  | EXERCISE | STUDENT LEARNING OUTCOMES | COGNITIVE LEVELS |   |   |
|--|----------|---------------------------|------------------|---|---|
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|  | 1.7      | 44, 45                    |                  |   |   |
| 2. The straight line                     | 2.1      | 52, 53                    |                  |   |   |
|  | 2.2      | 60, 61, 62                |                  |   |   |
|  | 2.4      | 82, 83, 84                |                  |   |   |
|  | 2.5      | 97, 98, 99                |                  |   |   |
| 3. The general equation of straight line | 3.1      | 118, 119, 120, 121, 122   |                  |   |   |
|  | 3.2      | 134, 135, 136, 137        |                  |   |   |
| 4. Differentiability                     | 4.1      | 159, 160, 161             |                  |   |   |
|  | 4.2      | 169, 170, 171             |                  |   |   |
|  | 4.3      | 172                       |                  |   |   |
|  | 4.4      | 176, 177                  |                  |   |   |
| 5. Application of differential calculus  | 5.3      | 191                       |                  |   |   |
| 6. Antiderivatives                       | 6.1      | 198, 199                  |                  |   |   |

|  |            |                           |  |  |  |
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|  | <b>6.2</b> | <b>201, 202</b>           |  |  |  |
|  | <b>6.3</b> | <b>206, 207, 208</b>      |  |  |  |
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|  | <b>6.7</b> | <b>218, 219</b>           |  |  |  |
|  | <b>6.9</b> | <b>229</b>                |  |  |  |
| <b>7. Circle</b>                               | <b>7.1</b> | <b>244, 245</b>           |  |  |  |
| <b>8. Parabola,<br/>Ellipse,<br/>Hyperbola</b> | <b>8.4</b> | <b>311, 312, 313, 314</b> |  |  |  |
| <b>9. Vectors</b>                              | <b>9.5</b> | <b>353, 354</b>           |  |  |  |
|  | <b>9.6</b> | <b>358</b>                |  |  |  |
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