

# Smart Syllabus of Applied Mathematics-I (MATH-123)

Session 2020-21

Note: Dear students the following Exercises / Questions, Short Questions, MCQs are excluded from syllabus.

عزیز طلباء سمارٹ سلیبس کی وجہ سے درج ذیل سوالات اس سال  
سلیبس کا حصہ نہیں ہیں۔ لہذا ان سوالات کو کراس کر دیں۔

## P A P E R - A

### Chapter # 01 (Quadratic Equations)

<b>Exercise 1.3</b>	Full
<b>Exercise 1.4</b>	Full
<b>Short Questions</b>	Q.24, Q.25, Q.26, Q.27, Q.28, Q.29, Q.30, Q.31, Q.32, Q.33, Q.34
<b>MCQs</b>	12, 13, 14, 15, 16, 19, 20

### Chapter # 02 (Binomial Theorem)

<b>Exercise 2.2</b>	Full
<b>Short Questions</b>	Q.11, Q.12, Q.13, Q.14, Q.15
<b>MCQs</b>	14, 15, 16

### Chapter # 03 (Fundamentals of Trigonometry)

<b>Exercise 3.1</b>	Full
<b>Exercise 3.2</b>	Q.11 (Complete), Q.12, Q.13
<b>Short Questions</b>	Q.02 (Complete), Q.03 (Complete), Q.04, Q.05, Q.06, Q.07, Q.08, Q.09, Q.10, Q.11, Q.12, Q.13, Q.14, Q.15
<b>MCQs</b>	01, 02, 03, 04, 05, 06, 11, 12, 13

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### Chapter # 04 (General Identities)

<b>Exercise 4.2</b>	Q.02, Q.03, Q. 05, Q.17, Q.20
<b>Exercise 4.3</b>	Full
<b>Short Questions</b>	Q.17, Q.18, Q.19, Q.20, Q.21, Q.22, Q.23, Q.24, Q.25
<b>MCQs</b>	13, 14, 15, 16, 17, 18, 19, 20

### Chapter # 05 (Solution of Triangles)

<b>Exercise 5.1</b>	Full
<b>Exercise 5.2</b>	Full
<b>Short Questions</b>	Q.03, Q.04, Q.05, Q.10, Q.11, Q.12, Q.13
<b>MCQs</b>	03, 13, 14, 15, 16, 17, 18, 19, 20.

### Chapter # 06 (Scalars & Vectors)

<b>Exercise 6.2</b>	Q.06, Q.08, Q.11, Q.15, Q.16
<b>Short Questions</b>	Q.21
<b>MCQs</b>	08

### Chapter # 07 (Phasor Algebra)

Full Chapter Delete

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## P A P E R - B

### Chapter # 08 (Complex Numbers)

**Exercise 8.2** Q.02, Q.03, Q.04, Q.05

**Exercise 8.3** Full

**Short Questions** Q.15, Q.016, Q.17, Q.18, Q.19

### Chapter # 09 (Partial Fractions)

**Exercise 9.4** Full

**Short Questions** Q. 09, Q. 15

**MCQs** 07

### Chapter # 10 (Number Systems)

Nothing to Delete

### Chapter # 11 (Boolean Algebra)

**Exercise 11** Q.04, Q.05, Q.06, Q.07, Q.08, Q.10,  
Q.11, Q.12

**Short Questions** Q. 08, Q. 09, Q. 15, Q. 17, Q. 18,  
Q. 19, Q. 21

**MCQs** 06

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### Chapter # 12 (The Straight Line)

<b>Exercise 12.2</b>	Q. 02, Q.03, Q. 04, Q. 05, Q. 06, Q. 07, Q. 08, Q. 09, Q. 10
<b>Exercise 12.3</b>	Q. 03 (c)
<b>Exercise 12.4</b>	Q. 01 (Complete), Q. 07, Q. 08, Q. 09, Q. 10, Q. 11, Q. 12, Q. 13, Q. 15, Q. 16, Q. 17
<b>Exercise 12.5</b>	Q. 06
<b>Exercise 12.6</b>	Full
<b>Short Questions</b>	Q. 05, Q. 08, Q. 10, Q. 11, Q. 12, Q. 13, Q. 14, Q. 16, Q. 20
<b>MCQs</b>	07

### Chapter # 13 (The Circle)

<b>Exercise 13</b>	Q. 02, Q. 05 (Complete), Q. 06 (C), Q. 08 (Complete), Q. 09
<b>Short Questions</b>	Q. 06, Q. 07
<b>MCQs</b>	04, 05, 06, 07, 09, 10, 13, 14