

MEGHALAYA BOARD OF SCHOOL EDUCATION



HEADQUARTERS :::: TURA

No. MBOSE/AW/S-Cur/157/16/3055-3555

Dated Tura, the 15-3-2018.

From : Pravin Bakshi, IAS,
Executive Chairman,
Meghalaya Board of School Education,
Tura.

To : All concerned Secondary Schools,
Meghalaya.

Sub. : Selected exercises for Mathematics, Classes IX & X.

Sir/Madam,

With reference to the subject mentioned above, it may kindly be informed that specific exercises for Mathematics, Classes IX & X have been selected for classroom transactions w.e.f. 2018 academic year onwards to enable the students to complete their course within the academic session.

However, due importance may also be given to the remaining exercises for the welfare of the students.

Thanking you,

Yours faithfully,

Pravin Bakshi,
Executive Chairman
MBOSE, Tura

MATHEMATICS

CLASS-IX

The following are the exercises selected for class room transaction and evaluation:

Unit I: Number Systems

Chapter 1: *Number Systems*

- Exercises 1(a) - Slab I, Slab II
- Exercises 1(b) - Slab I, Slab II
- Exercises 1(c) - Slab I
- Exercises 1(d) - Slab I
- Exercises 1(e) - Slab I
- Exercises 1(g) - Slab I, Slab II
- Exercises 1(h) - Slab I

Unit II: Algebra

Chapter 2: *Polynomials*

- Exercises 2(a) - Slab I
- Exercises 2(b) - Slab I, Slab II
- Exercises 2(c) - Slab I
- Exercises 2(d) - Slab I
- Exercises 2(e) - Slab I
- Exercises 2(f) - Slab I
- Exercises 2(g) - Slab I
- Exercises 2(h) - Slab I, Slab II
- Exercises 2(i) - Slab I

Chapter 4: *Linear Equations in two variables*

- Exercises 4(a) - Slab I
- Exercises 4(b) - Slab I, Slab II
- Exercises 4(c) - Slab I
- Exercises 4(d) - Slab I

Unit III: Co-ordinate Geometry

Chapter 3: *Co-ordinate Geometry*

Exercise 3(a) - Slab I, Slab II

For Assessment - Very Short Answer type questions, True/False questions, } Pages- 60,
Fill in the Blanks & Multiple Choice Questions (MCQs). } 61, 62.

Unit IV: Geometry

Chapter 6: *Lines and Angles*

Exercises 6(a) - Slab I

Exercises 6(b) - Slab I, Slab II

Exercises 6(c) - Slab I, Slab II

Exercises 6(d) - Slab I

Chapter 7: *Triangles*

Exercises 7(a) - Slab I, Slab II

Exercises 7(b) - Slab I

Exercises 7(d) - Slab I

Chapter 8: *Quadrilaterals*

Exercises 8(a) - Slab I, Slab II (Short Answer Type Questions)

Exercises 8(b) - Slab I

Chapter 9: *Areas of Parallelograms and Triangles*

Exercises 9(a) - Slab I

Chapter 10: *Circles*

Exercises 10(a) - Slab I

Exercises 10(c) - Slab I

Exercises 10(d) - Slab I

Chapter 11: *Constructions*

Exercises 11(a) - Slab I

Exercises 11(b) - Slab II

Exercises 11(c) - Slab I, Slab II

Unit V: Mensuration

Chapter 12: *Heron's formula*

- Exercises 12(a) - Slab I
Exercises 12(b) - Slab I, Slab II

Chapter 13: *Surface Areas and Volumes*

- Exercises 13(a) - Slab I
Exercises 13(b) - Slab I
Exercises 13(c) - Slab I
Exercises 13(d) - Slab I
Exercises 13(e) - Slab I
Exercises 13(f) - Slab I
Exercises 13(g) - Slab I
Exercises 13(h) - Slab I

Unit VI: Statistics and Probability

Chapter 14: *Statistics*

- Exercises 14(a) - Slab I, Slab II
Exercises 14(b) - Slab I, Slab II
Exercises 14(c) - Slab II
Exercises 14(d) - Slab I
Exercises 14(f) - Slab I
Exercises 14(g) - Slab I

Chapter 15: *Probability*

- Exercises 15(a) - Slab I, Slab II
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MATHEMATICS

CLASS-X

The following are the exercises selected for class room transaction and evaluation:

Unit I: Number Systems

Chapter 1: *Real Numbers*

- Exercises 1(a) - Slab I
- Exercises 1(c) - Slab I, Slab II (Short Answer type Questions only)
- Exercises 1(e) - Slab I, Slab II

Unit II: Algebra

Chapter 2: *Polynomials*

- Exercises 2(a) - Slab I, Slab II
- Exercises 2(c) - Slab I, Slab II

Chapter 3: *Pair of Linear Equations in two variables*

- Exercises 3(b) - Slab I, Slab II
- Exercises 3(c) - Slab I (Short Answer type Questions only)
- Exercises 3(d) - Slab I
- Exercises 3(e) - Slab I, Slab II
- Exercises 3(f) - Slab I, Slab II
- Exercises 3(g) - Slab I

- Exercises 3(h) - Slab I (Questions should be based on rectangles only),
Slab II (Questions no. 7,8,15,16,18,19,20,21 & 22)

Chapter 4: *Quadratic equations*

- Exercises 4(a) - Slab I, Slab II
- Exercises 4(b) - Slab I
- Exercises 4(c) - Slab I, Slab II (Short Answer type Questions only)
- Exercises 4(d) - Slab I, Slab II (Short Answer type Questions only)
- Exercises 4(e) - Slab I
- Exercises 4(f) - Slab I, Slab II (Short Answer type Questions only)
- Exercises 4(g) - Slab I, Slab II
- Exercises 4(h) - Slab I, Slab II
- Exercises 4(i) - Slab I, Slab II (Short Answer type Questions only)
- Exercises 4(j) - Slab I

Chapter 5: *Arithmetic Progression*

- Exercises 5(a) - Slab I, Slab II
- Exercises 5(b) - Slab I
- Exercises 5(c) - Slab I, Slab II
- Exercises 5(d) - Slab I

Unit III: Trigonometry

Chapter 8: *Introduction to Trigonometry*

- Exercises 8(a) - Slab I, Slab II
- Exercises 8(b) - Slab I, Slab II (Short Answer type Questions only)
- Exercises 8(c) - Slab I, Slab II (Short Answer type Questions only)

N.B.: Question No. 5 should be read as “Express each of the following in terms of trigonometric ratios of angles, lying between 0° and 45° ”.

- Exercises 8(d) - Slab I, Slab II (Short Answer type Questions only)
- Exercises 8(e) - Slab I, Slab II (Short Answer type Questions only)

Chapter 9: *Some applications of Trigonometry*

- Exercises 9(a) - Slab I, Slab II (Short Answer type Questions only)

Unit IV: Co-ordinate Geometry

Chapter 7: *Co-ordinate Geometry*

- Exercises 7(a) - Slab I, Slab II (Questions no. 14,15,16,17,18,19 & 20)
- Exercises 7(b) - Slab I
- Exercises 7(c) - Slab I
- Exercises 7(d) - Slab I, Slab II (Short Answer type Questions only)

Unit V: Geometry

Chapter 6: *Triangles*

- Exercises 6(a) - Slab I (Numerical Problems only)
- Exercises 6(b) - Slab I (Numerical Problems only)
- Exercises 6(d) - Slab I (Numerical Problems only)
- Exercises 6(e) - Slab I, Slab II
- Exercises 6(f) - Slab I

Chapter 10: *Circles*

- Exercises 10(a) - All
- Exercises 10(b) - Slab I

Chapter 11: *Constructions*

- Exercises 11(a) - All
Exercises 11(b) - Constructions should be based on similar triangles only.
Exercises 11(c) - Slab I, Slab II (Constructions should be based on drawing of tangents from external point only.)

Unit VI: Mensuration

Chapter 12: *Areas related to Circles*

- Exercises 12(a) - Slab I, Slab II
Exercises 12(b) - Slab I, Slab II
Exercises 12(c) - Slab I, Slab II (Short Answer type Questions only)

Chapter 13: *Surface Areas and Volumes*

- Exercises 13(a) - Slab I, Slab II (Short Answer type Questions only)
Exercises 13(b) - Slab I, Slab II (Short Answer type Questions only)
Exercises 13(c) - Slab I

Unit VII: Statistics and Probability

Chapter 14: *Statistics*

- Exercises 14(a) - Slab I, Slab II
Exercises 14(b) - Slab I, Slab II
Exercises 14(c) - Slab I, Slab II
Exercises 14(d) - Slab I, Slab II

Chapter 15: *Probability*

- Exercises 15(a) - Slab I, Slab II (Problems should be based on Single event only.)
