

**Oman Medical College Requirements for the Mathematics Placement Test**

1. The Advance Placement Tests in Mathematics are organized around five principal content domains:
* Numerical skills/pre-algebra
* Algebra
* College algebra
* Statistics and probability
1. These Placement tests consist of two parts:
* Part 1- Basic Mathematics
* Part-2 Pure Mathematics
1. The questions are 'multiple choice questions(MCQ’s)
* Each test will consist of 50 multiple-choice questions.
* The time allotted is 120 minutes.
* For Part I( Basic Mathematics) **calculators are Not allowed**
* For Part 2( Pure Mathematics) calculators are allowed.
1. Students have to bring their own stationeries (pen, pencil, eraser, calculators) and ID card.
2. In Basic Mathematics Placement Test, students who score 70% are eligible to take Pure Mathematics Placement exam.
3. In Pure Mathematics Placement Test, students who score 70% are exempted from doing Mathematics in the Foundation Year.

**BASIC MATHEMATICS: Numerical Skills/Prealgebra and Algebra Tests**

Questions in this Placement Test range in content from basic arithmetic concepts and skills to the knowledge and skills required for elementary algebra, coordinate geometry and intermediate algebra. The Basic Mathematics Placement Test includes items from more than a dozen content
areas as follows:

1. Arithmetic of Rational Numbers
2. Order of operations
3. Decimals
4. Ratios and Proportions,

 **S.** Percentages

1. Exponents & Scientific notation
2. Operations with Algebraic Expressions
3. Linear equations and Inequalities
4. Linear Graphs
5. Polynomials; Factoring, Quadratic equations
6. Rational Expressions; Rational equations
7. Radicals and Exponents.
8. Simplifying rational expressions
9. Solving radical equations
10. Variation and Modeling

**SAMPLE QUESTION PAPER**

1) Simplify $\frac{\sqrt{6}+\sqrt{3}}{\sqrt{6}-\sqrt{3}}$

 (A) 3+$\sqrt{3}$

 (B) 3-2$\sqrt{3}$

 (C) 3

 (D) 3+$2\sqrt{2}$

2) Last year Salim was 140cm tall. His height increased by 20 %. How tall is he this year?

1. 112 cm
2. 28 cm
3. 168 cm
4. 141 cm

3) To get an A in Biology, you must have a mean of 90 on five tests. Your scores thus far are 83, 93,88and 91 .How many points must you have on the final test to receive an A?

1. 90 points
2. 95 points
3. 98 points
4. 100 points

4) P is directly proportional to V and P = 100 when V = 4. Find the constant of proportionality and the equation of variation and Use them to find V when P = 50.

1. 50
2. 4
3. 2
4. 100

5) Find the solution set of 

 (A) or

 (B) or

 (C) or

 (D) 

**Answer key:**

1. D 2) C 3) B 4) C 5) A

**ALL THE BEST**