

**DOGAR'S
UNIQUE**

Latest Edition

According to the New Syllabus



PU-M USAT-M



Pre-Medical
Admission Test Guide

After 12-Years / Equivalent Education in Any Discipline

Fully Solved Objective MCQs With Explanatory Answers



Dogar Publishers Editorial Board



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STUDY MATERIAL

Criteria and Subject Division		Page #
PART I:	Number of Test Items (75 MCQs) Time Allowed 100 Minutes	
A: VERBAL REASONING		17
A1: Analogy		18
A2: Synonyms/ Antonyms		31
A3: Sentence Completion		49
A4: Comprehension		65
B: QUANTITATIVE REASONING		77
B1: Arithmetic		77
B2: Algebra and Functions		111
B3: Geometry		118
B4: Equations		134
B5: Statistics		142
B6: Scenario Based/Mental Mathematics		153
C: SUBJECT-I: Physics		165
D: SUBJECT-II: Chemistry		187
E: SUBJECT-III: Biology		208
Part II: Time Allowed 40 Minutes		
Argument Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)	15 Marks	229
Narrative Based Essay Writing Skills 01 out of 03 (Either in English or Urdu)	10 Marks	248

For Pre-Medical Group

3 SELECTION PROCEDURE

vegetarians; that is, they only eat meat during a holy celebration, or whenever they can afford it, which, because of the ludicrously high prices, is practically never.

- A. sometimes
C. staunch
B. clandestine
D. adamant
E. reluctant ✓
4. The ___ lecture hall could seat the entire graduating class including guests; some said it was even _____.
A. burgeoning... elaborate
C. elaborate... haughty
E. capacious... miniscule
B. bodacious... monumental
D. commodious... enormous ✓
5. The secretary ___ agreed to ___ the president's decision, knowing that the information was less than factual and against her basic beliefs regarding deceptive sales practices.
A. grudgingly... abide by ✓
C. secretly... acknowledge
E. furtively... foster
B. willingly... support
D. maliciously... sway
6. Either the fishing at Redington Beach is ____, or I went there on an off day.
A. plentiful
C. caustic
B. overrated ✓
D. sporadic
E. invigorating
7. His _____ remarks really detracted from the overall speech; he should not have so readily strayed from his subject.
A. repugnant
C. redundant
B. digressive ✓
D. innocuous
E. enigmatic
8. He acted with great ____, as if he were a diplomat without regard for crimination.
A. emotion
C. concern
B. restraint
D. statesmanship
E. disdain ✓
9. As I was describing my encounter with the alien, he had the most ___ stare, as if he didn't believe a word I was saying.
A. amazing
C. incredulous ✓
B. dumbfounded
D. blank
E. obdurate
10. The ___ of horns heard while gridlocked at the traffic jam was as discordant as an untamed orchestral performance.
A. blaring
C. sequencing
B. harmonic
D. cacophony
E. syncopated

Answers and Explanations for Skill Set One:

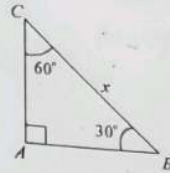
1. The correct choice is B.

Explanation: Although Choice A, "sickeningly" may work in the first blank, to prevent an occurrence, or thwart, an action does not fit the second. Choice C, "inexplicably," might also fit the first blank, but crying is not typically something the testosterone-laden player would enjoy. Choices D and E, "intentionally" and "plausibly" don't fit the first blank and may be

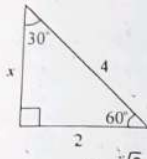
For Pre-Medical Group

Let x be the hypotenuse of triangle ABC . Then

- 1) The leg opposite the 30° angle is $\frac{1}{2}(x)$. i.e., $m\overline{AC} = \frac{1}{2}x$
- 2) The leg opposite the 60° angle is $\frac{1}{2}(x)(\sqrt{3})$.

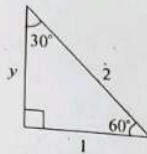


Examples

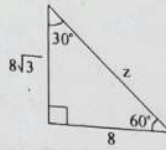


$x = 2\sqrt{3}$

$y = \sqrt{3}$



$z = 16$



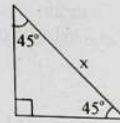
Note:

In an equilateral triangle, an altitude forms a $30^\circ-60^\circ-90^\circ$ triangle and is equal to $\frac{1}{2}(\text{hyp}) \cdot \sqrt{3}$

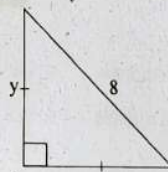
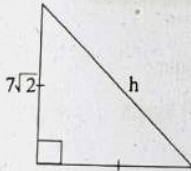
4. The $45^\circ-45^\circ-90^\circ$ Triangle:

Let x be the hypotenuse of an isosceles right triangle, then

- 1) Each leg is $\frac{1}{2}(x) \cdot \sqrt{2}$ i.e., $m\overline{AB} = m\overline{AC}$
- 2) Hypotenuse = leg $\cdot \sqrt{2}$



Examples



$h = (7\sqrt{2}) \cdot (\sqrt{2}) = 14y = \frac{1}{2} \cdot 8 \cdot \sqrt{2} = 4\sqrt{2}$

Note:

In a square, the diagonal forms a $45^\circ-45^\circ-90^\circ$ triangle. Thus, in a square
 Diagonal = side $\cdot \sqrt{2}$