

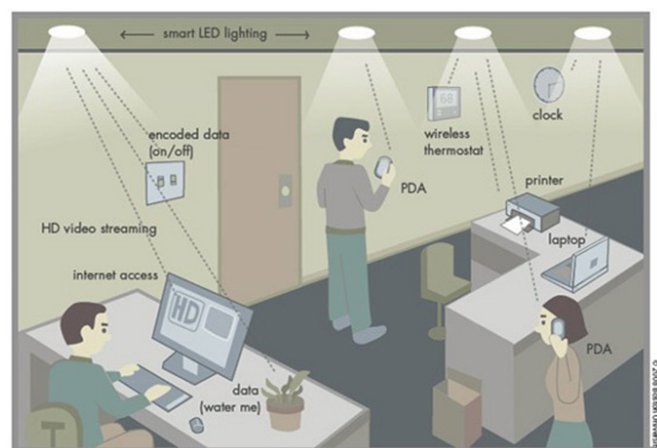
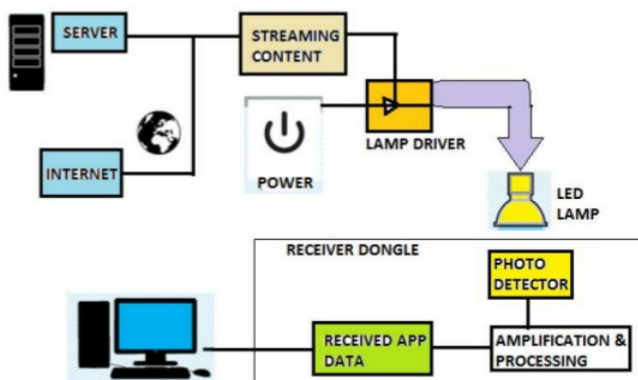
NEWS'ellite

Art of innovation

Li-Fi Technology

The Li-Fi technology or light-fidelity technology was first demonstrated by a German Physicist, Harald Hass in 2011. What if, all lights in your rooms will communicate with each other and creates a bridge of wireless networks to provide internet access? Then Li-Fi technology would be the best optimum solution over Wi-Fi technology. It can be used to extend wireless networks at your place and also traffic conditions can be controlled. Best advantage is that it can access internet at high speed in those areas where optical fibers installation is not easy. The functioning is simple i.e when the LED starts glowing, the light sensor will detect the light then it is binary 1 otherwise it is binary 0. The possibilities are numerous and can be explored further!

► How Li-Fi Works ?



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution - UGC, Govt of India)

Recognized Under 2(f) and 12(b) of UGC Act 1996

Permanently Affiliated to JNTUH,
Approved by AICTE-Accredited by
NB&NAAC with A-grade



Fascinating Faculty

1. What is your knowledge of and experience with standards based education?

- Standard based education is not mere about assessing the student's performance but it helps teachers set targets and develop programs that support and improve student learning.

2. What kind of rules do you like to give to the students about discipline?

- Discipline cannot be developed in an individual by dictating or setting rules. According to me having self control and doing the right thing on right time in a right way is discipline.

3. Why have you selected teaching as a profession?

- For me selecting teaching as a profession was always by choice not by chance because it gives immense pleasure of being a lifelong learner. I feel I will be successful as a teacher if I can make difference to the life of at least one student by enabling him or her to fully maximize their talents, imagination, skills and character.

6. What is your experience in MRCET?

- Wonderful 5 years.

7. Health tip:

One should be healthy not just by body but also mind.

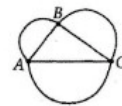
“Physical fitness is not only one of the most important keys to a healthy body; it is the basis of dynamic and creative intellectual activity.” John F. Kennedy

8. Favorite places: HYDERABAD, SHRINGERI



26. If n is the average (arithmetic mean) of the three numbers 6, 9, and k , what is the value of k in terms of n ?

- (A) $3n - 15$
- (B) $n - 5$
- (C) $n - 15$
- (D) $\frac{n - 15}{3}$
- (E) $\frac{n + 15}{3}$



13. The areas, in square units, of the three semi-circles on the sides of $\triangle ABC$ above are 8π , $\frac{25\pi}{2}$, and 18π . What is the perimeter of $\triangle ABC$?

- (A) 18 units
- (B) 20 units
- (C) 24 units
- (D) 30 units
- (E) $38\frac{1}{2}$ units

If $x > 0$, and two sides of a certain triangle have lengths $2x + 1$ and $3x + 4$ respectively, which of the following could be the length of the third side of the triangle?

Indicate all possible lengths.

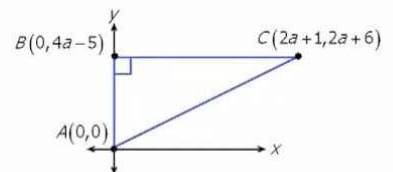
- ☒ (A) $4x + 5$
- ☐ (B) $x + 2$
- ☒ (C) $6x + 1$
- ☐ (D) $5x + 6$
- ☒ (E) $2x + 17$

Given 2 sides with lengths A and B,
 difference between A and B < length of third side < sum of A and B

$$x + 3 < \text{length of third side} < 5x + 5$$

The points $A(0,0)$, $B(0,4a-5)$ and $C(2a+1,2a+6)$ form a triangle. If $\angle ABC = 90^\circ$, what is the area of triangle ABC ?

- (A) 102
- (B) 120
- (C) 132
- (D) 144
- (E) 156



$$\begin{aligned} 4a - 5 &= 2a + 6 \\ 2a - 5 &= 6 \\ 2a &= 11 \\ a &= 5.5 \end{aligned}$$

For the first 5 hours of a trip, a plane averaged 120 kilometers per hour. For the remainder of the trip, the plane travelled an average speed of 180 kilometers per hour. If the average speed for the entire trip was 170 kilometers per hour, how many hours long was the entire trip?

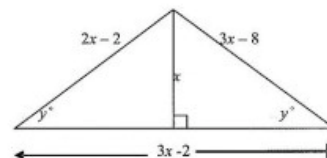
- (A) 15
- (B) 20
- (C) 25
- (D) 30
- (E) 35

Let T = hours flown at 180 km/hr

$$\text{Average speed} = \frac{\text{total distance}}{\text{total time}}$$

$$170 = \frac{\text{total distance}}{T}$$

$$d = s \times t$$



11. The figure above shows the dimensions of an isosceles triangle in terms of x . What is the area of the triangle?

- (A) 24
- (B) 30
- (C) 48
- (D) 60
- (E) 96

1) The expression $\frac{12x+36}{4x+6}$ can be simplified to which of the following? (Select all choices that are true.)

[A] $\frac{3x+36}{x+6}$

[B] $\frac{3x+9}{x+6}$

[C] $\frac{x+3}{x+2}$

[D] $\frac{3}{2}$

[E] $\frac{12x+6}{4x+1}$

[F] $\frac{2x+6}{4x+1}$

[G] $\frac{x+3}{2x+1}$

[H] $\frac{6x+18}{2x+3}$

[I] 9

U Say...

Any information on GRE ? TOEFL ? GATE?

Change of logo..and concept !!!

Some logical questions ???

Something interesting on the first page .

Joe is younger than Kathy.
Mark was born after Joe.
Kathy is older than Mark.
If the first two statements are true,
the third statement is _____.
(True , False , No Idea)

5	3			7				
6			1	9	5			
	9	8					6	
8				6				3
4			8		3			1
7				2				6
	6					2	8	
			4	1	9			5
				8			7	9

Editorial Board

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Art of innovation

GRADUATE RECORD EXAMINATION (GRE)

This is a standardized test that is an admissions requirement for most graduate schools in the United States

Created and administered by Education Testing Service (ETS) in 1949, the exam aims to measure verbal reasoning, quantitative reasoning, analytical writing, and critical thinking

The GRE General Test is offered as a computer-based exam administered at parametric testing centers.

Structure

The structure of the computer-based GRE revised General Test consists of five sections.

The first section is always the analytical writing section involving separately timed issue and argument tasks.

The next five sections consist of two verbal reasoning sections, two quantitative reasoning sections, and either an experimental or research section. These five sections may occur in any order.

. The entire testing procedure lasts about 3 hours 45 minute.

One-minute breaks are offered after each section and a 10-minute break after the third section.



The Verbal Reasoning section of the GRE® revised General Test contains three types of questions:

Reading Comprehension
Text Completion
Sentence Equivalence

Reading Comprehension questions appear in sets; Text Completion and Sentence Equivalence questions are independent.

GRE Sample Passage

Sample questions 1 to 3 below are based on this passage:

Policymakers must confront the dilemma that fossil fuels continue to be an indispensable source of energy even though burning them produces atmospheric accumulations of carbon dioxide that increase the likelihood of potentially disastrous global climate change. Currently, technology that would capture carbon dioxide emitted by power plants and sequester it harmlessly underground or undersea instead of releasing it into the atmosphere might double the cost of generating electricity. But because sequestration does not affect the cost of electricity transmission and distribution, delivered prices will rise less, by no more than 50 percent. Research into better technologies for capturing carbon dioxide will undoubtedly lead to lowered costs.

Sample Multiple-choice Question — Select One Answer Choice

1.

The passage implies which of the following about the current cost of generating electricity?

- It is higher than it would be if better technologies for capturing carbon dioxide were available.
- It is somewhat less than the cost of electricity transmission and distribution.
- It constitutes at most half of the delivered price of electricity.
- It is dwelt on by policymakers to the exclusion of other costs associated with electricity delivery.
- It is not fully recovered by the prices charged directly to electricity consumers.

Answer: C

Sample Multiple-choice Question — Select One or More Answer Choices

Consider each of the three choices separately and select all that apply.

2.

The passage suggests that extensive use of sequestration would, over time, have which of the following consequences?

The burning of fossil fuels would eventually cease to produce atmospheric accumulations of carbon dioxide.

- The proportion of the delivered price of electricity due to generation would rise and then decline.
- Power plants would consume progressively lower quantities of fossil fuels.

Answer: B

Sample Select-in-Passage Question

3.