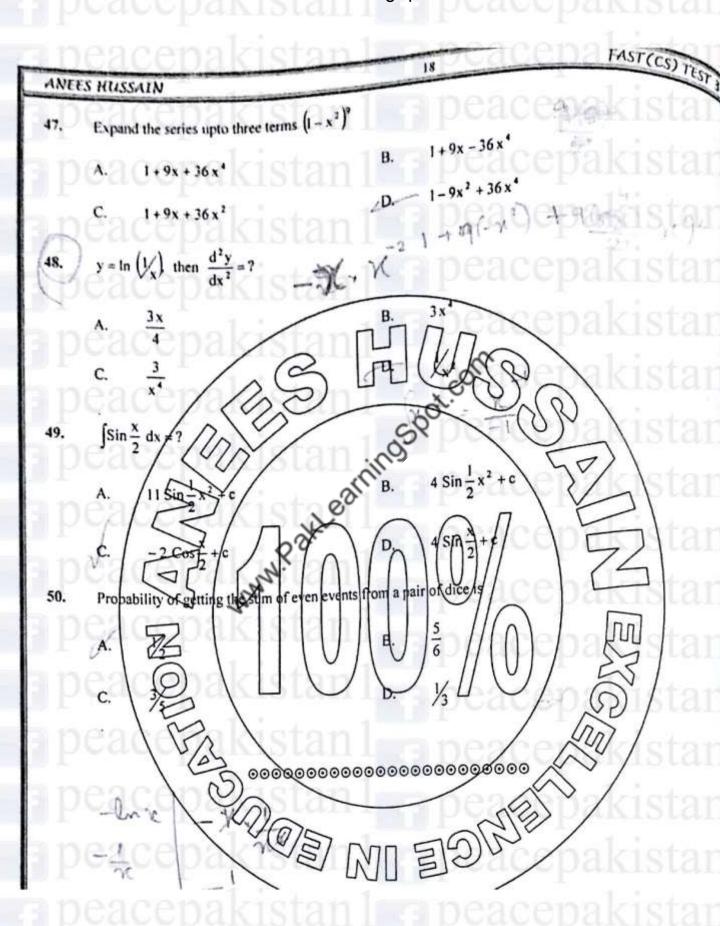
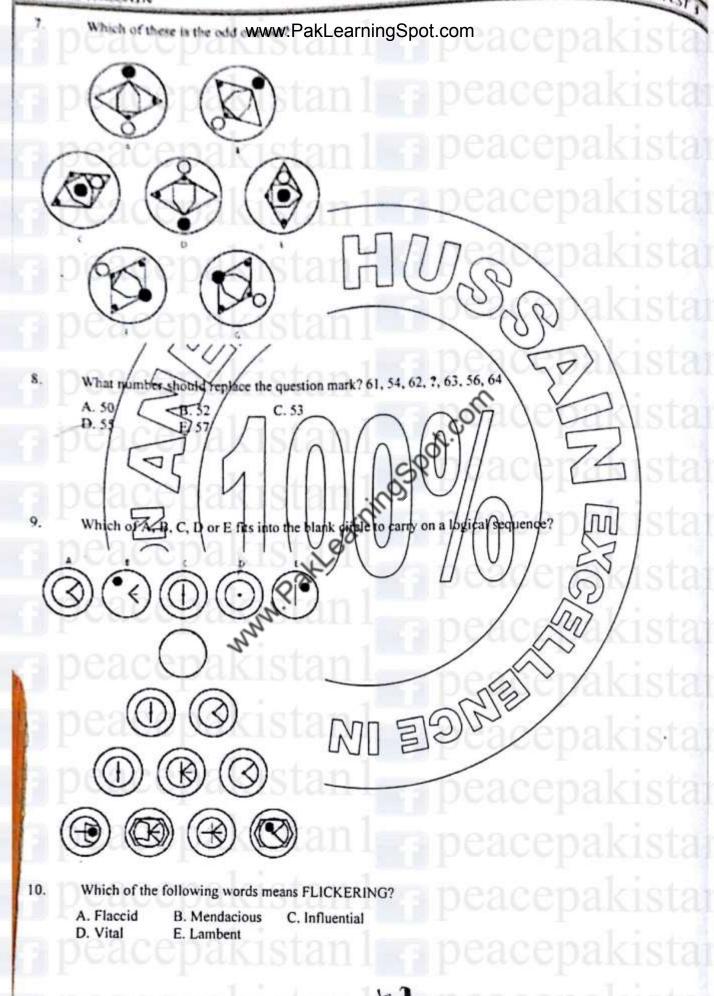
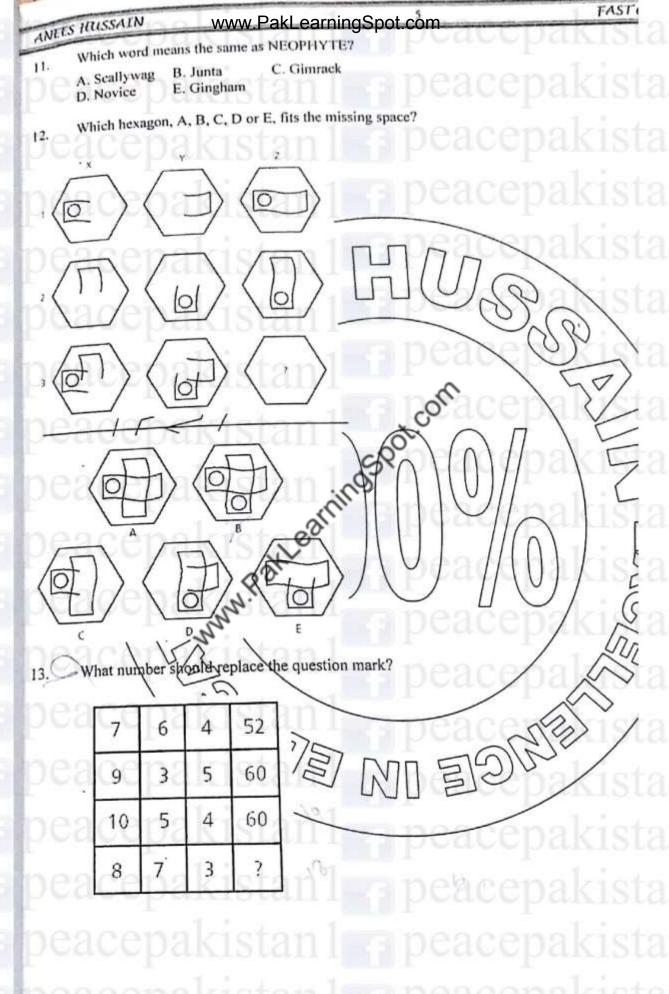
# NU-FAST CS & ENGG PAST PAPERS

Part-3



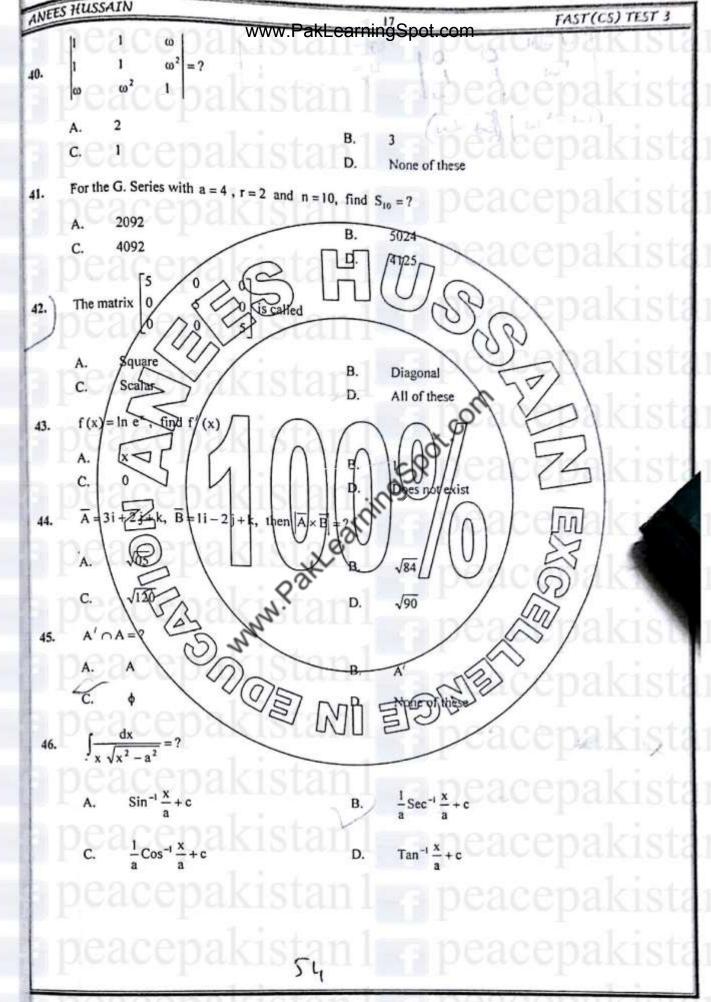




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# **ENGLISH**

phras	stion 1-2: In each question a word is given. Beneath the word are four lettered words or ses. Choose the word or phrase that is closest in meaning to the given word
. Indolence	agandrictor 1 a negcenaki
A Sloth	B. Poverty C. Latitude D. Aptitude
Innocuous	accomplished a neacenalis
A Not o	capable B Not-dangerous C Not eager D Not frank
73 130	ected to conquer Carthage.
B It wa	as expected by Romans to conquer Carthage.  as expected by Romans that they would conquer Carthage.  as expected by Romans that they could conquer Carthage.
D. Rom	ans expected that they would conquer Carthage word with incorrect spelling:
A. /naus	
15	the Christian Bible, When the disciples saw Jesus after he had sen from the dead, they said.
A. It is	him)
C. It is	nis D. It is his de
choose the	tion 6 -7. Each of the following sentences has a clark, firom the choices given below phrase or word that best completes the sentence
1	believed that an MBA degree is good preparation for a career in
C. Bus	D. Business One business
	mistather.
A like	(47)
Comprehe	hthouses are towers with strong lights that help mariners plot their position, inform them that
land is near, coast and or Eve	and warn them of dangerous rocks and reefs. They are placed at prominent points on the islands, reefs, and sandbars.  They are placed at prominent points on the islands, reefs, and sandbars.  They are placed at prominent points on the islands, reefs, and sandbars.
characteristi beam. A flas periods of lig	ics: fixed, flashing, occulting group flashing, and group occulting. A fixed signal is a steady shing signal has periods of darkness longer than periods of light, while an occulting signal's ght are longer. A group-flashing light gives off two or more flashes at regular intervals. Some
lighthouses beacons. Th	use lights of different colors as well, and today, most lighthouses are also equipped with radio he three types of apparatus used to produce the signals are the catoptric, in which metal is used
are used. In th	e light; the dioptric, in which glass is used; and the catadioptric, in which both glass and metal he daytime, lighthouses can usually be identified by their structure alone. The most typical
structure is skeletal tow	a tower tapering at the top, but some, such as the Bastion Lighthouse off the Florida Coast, are vers of steel. Where lighthouses might be confused in daylight, they can be distinguished by patterns-designs of checks and stripes painted in vivid colors on lighthouse walls.
ri pe	acepakista 32 peacepakis



 $5x^2 + 2x + 1$ 

The ratio between the ages of Omar, Ali, and Zaid is 1:2:3. If age of Ali is 40 yrs, then the age of

40

60

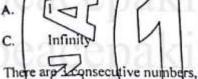
for Rs/16 the gain is 10. 2%. Find the profit when the iron to be sold for Rs.74?



26

$$\begin{array}{c} \text{It} & \text{Sint } x \\ x \to 0 & \text{Cos } x \end{array}$$

24



and the sum/of two is 30, then the



13, 1A/15 16, 17, 18

Quadrant, then the value of Cots is?

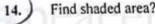
If  $\theta = \sin^2\theta$ 

numbers

12.

13.

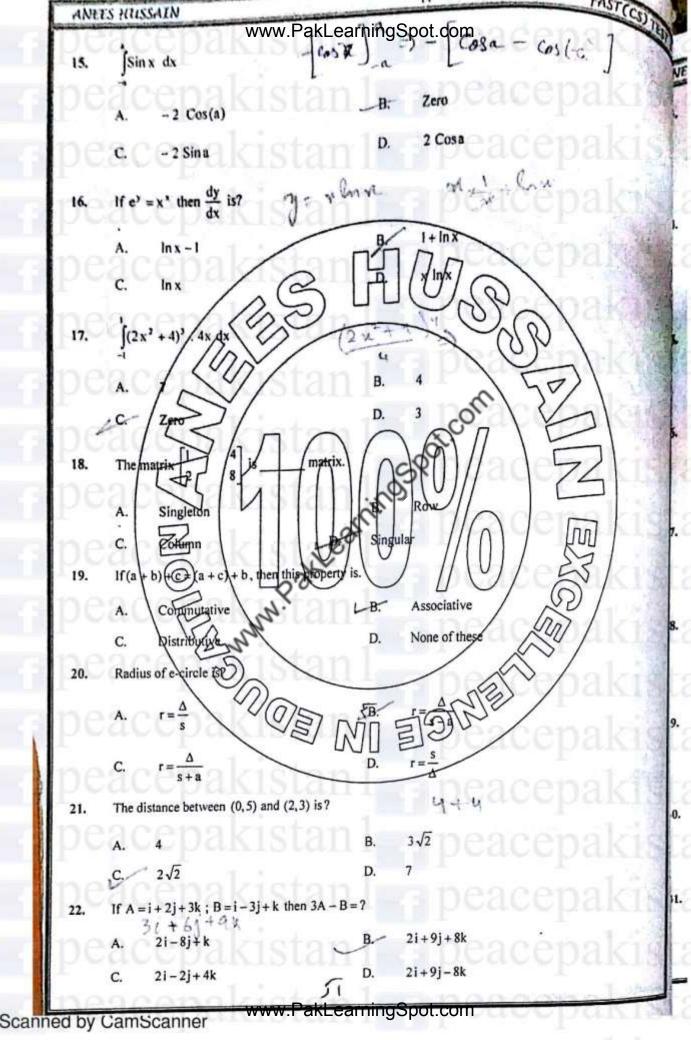




A. 
$$\frac{a^2}{4}$$

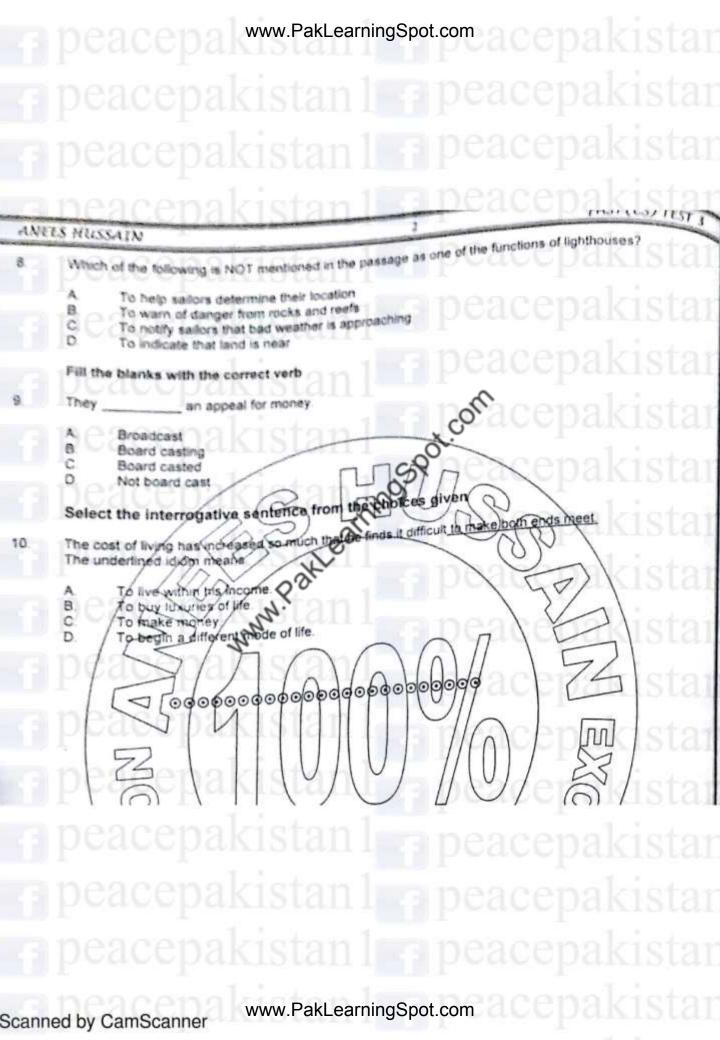
$$C.$$
  $a^2 + 4$ 

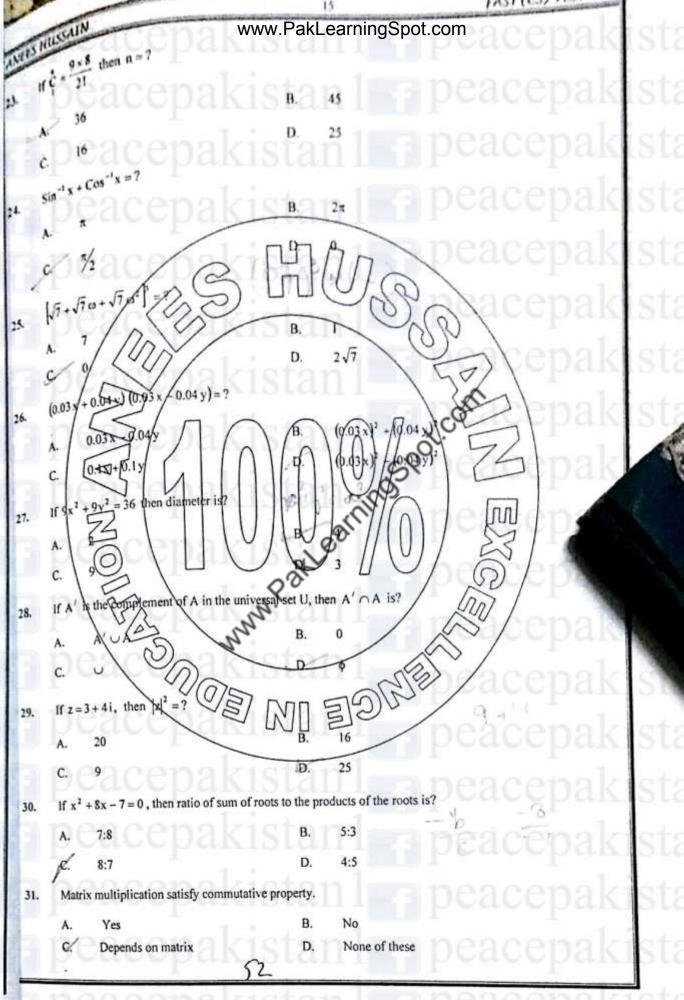
U	URREST AND ST	PakLearningSpot.com	pak
		50 m/h. Car Y starts from the same point towa	rds car X at 1
8.	Car X starts at 9 a.m. and travels at travels at 80 m/h. At what time will of	50 m/h. Car So mrh. Car X?	
	travels at 80 m/h. At what time will 6	R 6 p.m.	difference
	A. 5 p.m.	D. 8 p.m.	
	C. 7 p.m.	-an imanagas	
	tactoakisi	s milk are adde	d to this m:
9.	A S S S S S S S	% pure milk. 100 litres of pure milk are adde	iew mixture?
	A mixture of milk and water has a	% pure milk. 100 litres of pure milk are added on of milk to 85%. What is the quantity of the r	
T	thereases the percentage concentration	The Deciment	harr
	A. 200	B. 300 D. 500	7 - Y
	C. 400	nt na	
	eacenakid		
	/ (~	00 days After 10 days have passed. 0 more n	nen arrive. In h
10.	30 Men can complete a beilding in	od dayst Vicer and	MAIS
	days will the remaining work be con	preted	1
	/ / / /	B. 62.5	
	A. 67,5 ///	D. 72.5	7/
	c. 755 (4)		7) \ -
		1 1	/
11.	If a person bought a carpet for Rs. 2	0,000 and sold it for Rs. 25,000. What percenta	Re brodu dig p
	on his cost price?	0001	
	70 7111	( ) ( A) ( )	
	A. 20%	V 1/20 7404 1/1	16
	c.   60% [   1	110001	
		11/49/01/2	
	- The state of		Do
12.	District Annual Control		hm I
	The integral part of logarithm is call	ed 99 1 // ( ) )	201
	A. Characteristic	B. Mantissa //	501
	C. Solution	D. root	(0)
		011 / /	1
13.	What is the average of positive inter	gers from 1 to 100 inclusive?	07/
	12 Cas 1		5/
	A. 49 50.5 OS	B. 49.5 D. 50	/
1			/
14.	Aslam is now Ttimes of all as Tone	d, but 5 years ago, he was 5 times as daved was	How old is A.
	now?	5 555 7610	3.0 13 A
	Talled X Y	1 1 1 2 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	Short &
	A. 10	UND FIZ	EUSIAS.
	C. 24	D. 30	4. 40 3
	16.00	all makes	- alle
15.	If x % of y is 10, what is y?	THE PERIOR	LIZON
	A. 10/x 4/ x 1// - 1	B. 100/x	61
	A. 10/x 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	B. 100/x D. x/100	100
		o. Mod Design	DAK
			7
16.	The length of the arc cut off on a cir	cle of radius 6 cm by a central angle of	10
	2π/3 radians.		Dak
	Control of the Contro	0	N
	A. 10.033 cm	B. 12.566 cm	10
	C. 9.156 cm	D. 12.113 cm	TIKE
			10000
		47	

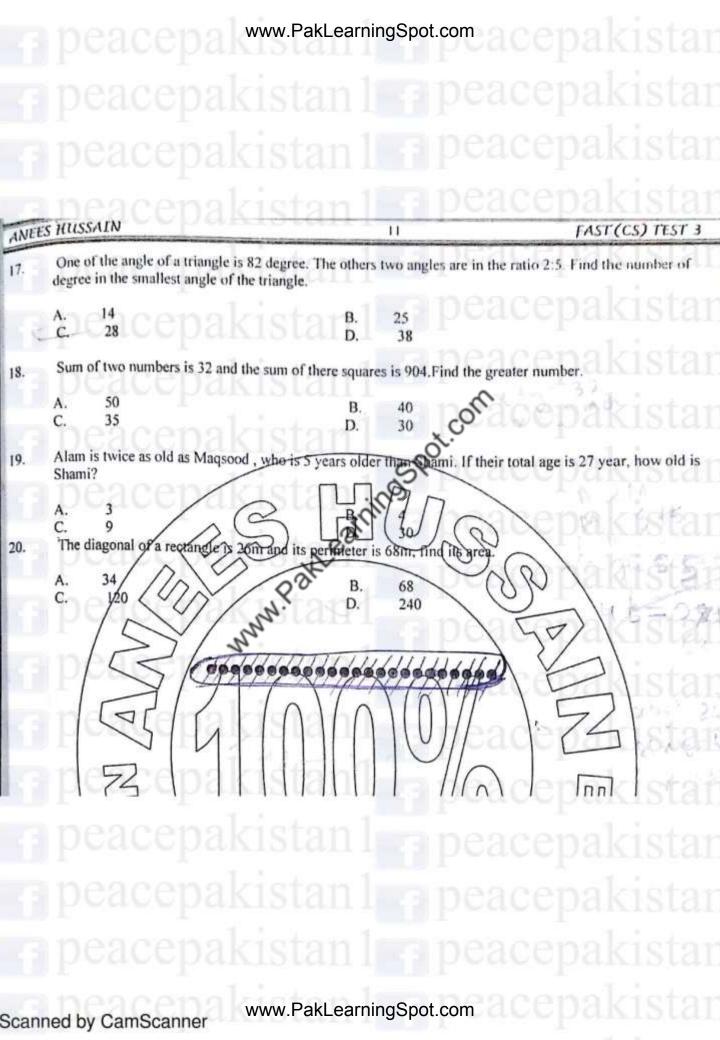


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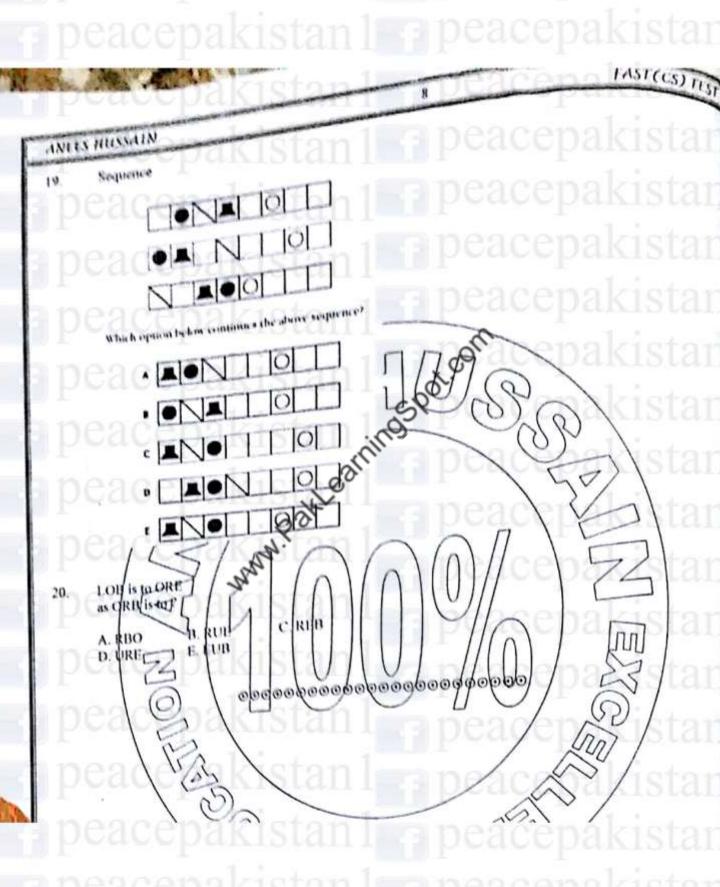
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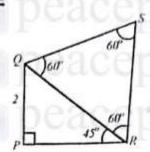
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# BASIC MATH

In the figure on the right, what is the perimeter

- of triangle QRS?



In the figure below, circle with centers A and C are tangent to each other and are intersected by square ABCD. If the circles are equal and the circumference of each is 10 m, what is the area of the shaded region?

- B.

A certain copy machine produces 13 copies every 10 seconds. If the pachine operates without interruption. how many copies will it produce in an hour

D.

- If 60 feet of uniform wire weighs 80 pounds bet is the weight of 1 yards of the same wire

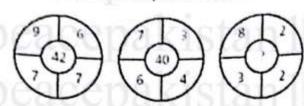
A gear 50 inches in chameter turns a smaller gear 30 inches in diameter. revolutions, how many revolutions does the smaller gear make in that union If the larger gear makes 15 -

20

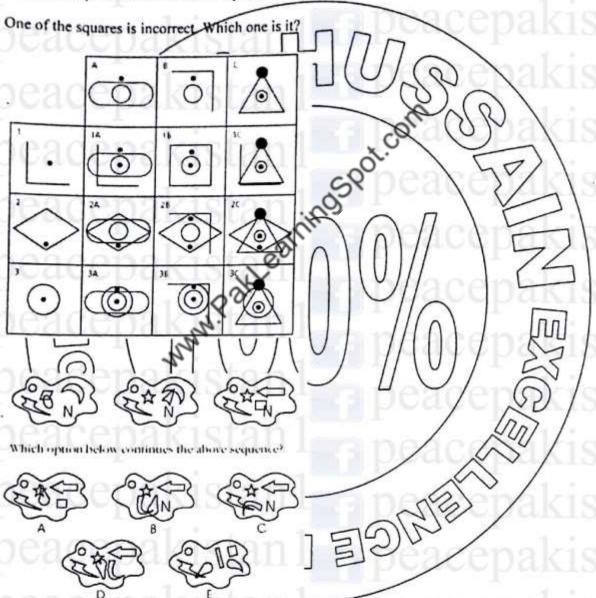
If x men can do a job in h days, how long would y men take to do the same job?

10 painters can paint 100 houses in 20 days working 6 hours daily. In how many days would 15 painters paint 600 houses working 8 hours daily?

14. What number should replace the question mark?



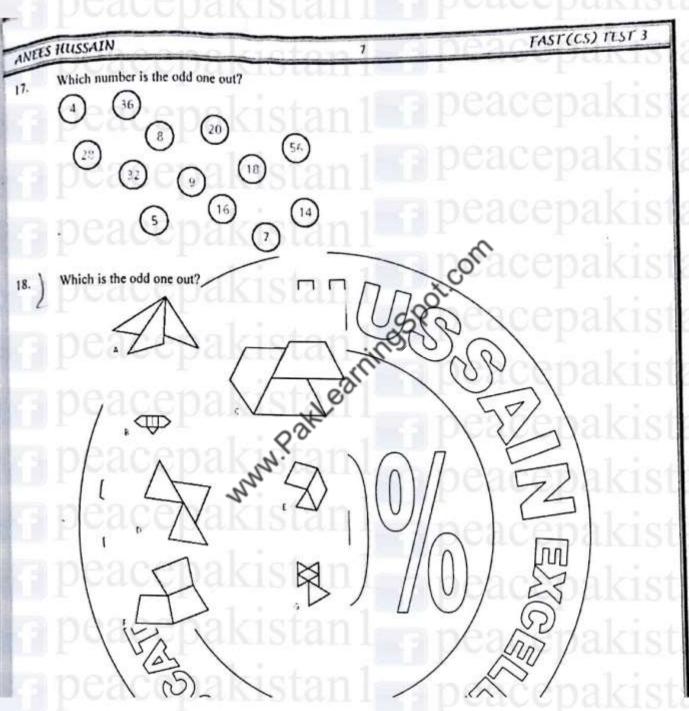
15. Each of the nine squares in the grid marked IA to 3C should incorporate all the lines and symbols that are shown in the squares of the same letter and number immediately above and to the left. For example, 2B should incorporate all the lines and symbols that are in 2 and B.



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16.



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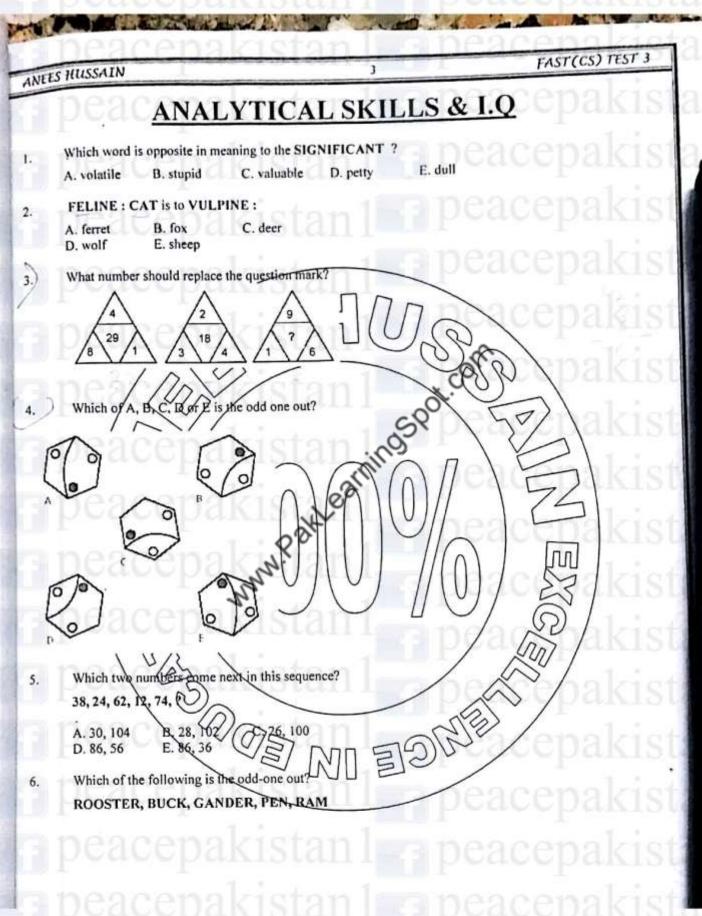
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3



# www.PakLearningSpot.com ADVANCED MATHEMATICS

12

1. If 
$$f(x) = x + 2$$
;  $g(x) = x - 2$  the  $(f.g)_{(2)} = ?$ 

Sin-t (Tan 45°) = ?

- Find the coordinate of the porps, which divide the joi

(5,4)B.

D. (5,3)

- The lotal number of tarms in the expansion of [1

- In(lnx)

- DOS
- The radius of the circle is?
- $4\sqrt{2}$



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