

# PACE-IIT & MEDICAL

MUMBAI / AKOLA / DELHI / KOLKATA / LUCKNOW / NASHIK / GOA / BOKARO / PUNE / NAGPUR

## ACE OF PACE

ADVANCED (CODE - 01)

ANSWERS KEY

DATE: 23/12/2018

Question	Answer
1	A
2	D
3	B
4	A
5	D
6	A
7	C
8	C
9	D
10	C
11	C
12	C
13	D
14	B
15	C
16	B
17	D
18	C
19	C
20	C
21	D
22	A
23	B
24	C
25	D
26	450
27	28

## SECTION A : 25 QUESTIONS

## SOLUTION

1. (A)

Unit digit in  $(6374)^{1793} = \text{Unit digit in } (4)^{1793}$  $= \text{Unit digit in } [(4^2)^{896} \times 4]$  $= \text{Unit digit in } (6 \times 4) = 4$ Unit digit in  $(625)^{317} = \text{Unit digit in } (5)^{317} = 5$ Unit digit in  $(341)^{491} = \text{Unit digit in } (1)^{491} = 1$ Required digit = Unit digit in  $(4 \times 5 \times 1) = 0$ 

2. (D)

3. (B)

4. (A)

5. (D)

6. (A)

7. (C)

8. (C)

9. (D)

10. (C)

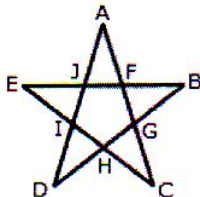
11. (C)

12. (C)

Adding the three numbers in each square together gives the numerical value of the letter at the centre of each square.

13. (D)

The figure may be labeled as shown



The simplest triangles are AJF, FBG, GCH, HDI and IEJ i.e. 5 in number.

The triangles composed of three components each EBH, AIC, EFC, ADG and BJD i.e., 5 in number.

Thus, there are  $5 + 5 = 10$  triangles in the figure.

- 14. (B)
- 15. (C)
- 16. (B)
- 17. (D)
- 18. (C)
- 19. (C)
- 20. (C)
- 21. (D)
- 22. (A)
- 23. (B)
- 24. (C)
- 25. (D)

**SECTION B : 2 QUESTIONS**

**SOLUTION**

26. (450)

27. (28)

Each day he makes it up another meter, and then on the twenty seventh day he can leap three meters and climb out.