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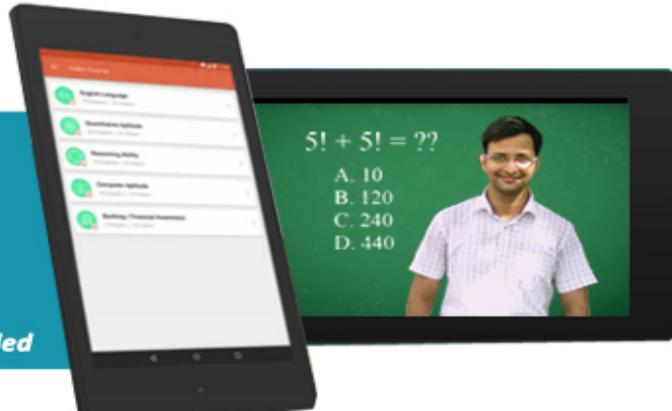
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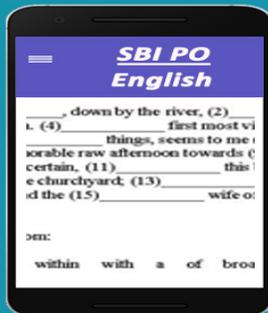


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SBI PO Prelims

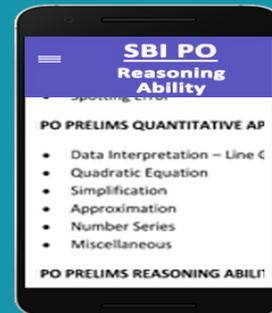
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SBI PO PRE (QUANT) MEMORY BASED

Directions(1-5): What will come in place of question mark (?) ?

- 210 130 60 ? 6 2
(a) 32 (b) 40 (c) 30
(d) 36 (e) None of these
- 6 15 45 157.5 ? 2835
(a) 610 (b) 620 (c) 630
(d) 640 (e) None of these
- 567 1140 2290 ? 9206 18434
(a) 4590 (b) 4584 (c) 4542
(d) 4594 (e) None of these
- 17 38 ? 508 2565 15426
(a) 123 (b) 121 (c) 221
(d) 135 (e) None of these
- 2 60 10 120 30 ?
(a) 222 (b) 216 (c) 208
(d) 230 (e) None of these
- A watch dealer usually sells watches for Rs.2350 per watch. Once he gave two successive discounts of 15% and 25% while selling a watch to a customer. But he charged an additional 8% on the net sale price from the customer. By what percent is the new selling price less than the original selling price?
(a) 28.45% (b) 29.25% (c) 30.45%
(d) 31.15% (e) none of these
- P and Q started a business by investing Rs. 45,000 and Rs.54,000 respectively. After four months R joined the business with a capital of Rs. 30,000. After two more months Q left the business with his capital. At the end of the year P got a share of Rs. 13,500 in the profit. What is the total profit earned?
(a) Rs 26800 (b) Rs 27600 (c) Rs 28600
(d) Rs 29200 (e) none of these
- A water reservoir has two inlets and one outlet. Through the inlet it can be filled in 3 hours and 3 hours 45 minutes respectively. It can be emptied completely in 1 hour by the outlet. If the two inlets are opened at 01:00 pm and 02:00 pm respectively and the outlet at 03:00 pm then it will be emptied at.
(a) 05 : 55 pm (b) 05 : 00 pm (c) 05 : 20 pm
(d) 05 : 30 pm (e) none of these
- A sum of money was invested for 14 years in Scheme A, which offered simple interest at a rate of 8% pa. The amount received from Scheme A after 14 years was then invested for two years in Scheme

B, which offers compound interest (compounded annual) at a rate of 10% pa. If the interest received from Scheme B was Rs. 6678, what was the sum invested in Scheme A?

- (a)Rs. 15500 (b)Rs. 14500 (c)Rs. 16000
(d)Rs. 12500 (e)Rs. 15000
- The speed of a boat in still water is 24kmph and the speed of the stream is 4kmph. The time taken by the boat to travel from A to B downstream is 36 minutes less than the time taken by the same boat to travel from B to C upstream. If the distance between A and B is 4 km more than the distance between B and C, what is the distance between A and B?
(a)112 km (b)140 km (c)56 km
(d)84 km (e)28 km
 - A vessel contains a mixture of milk and water in the ratio of 14 : 3. Now, 25.5 liters of the mixture is taken out from the vessel and 2.5 litres of pure water and 5 litres of pure milk is added to the mixture. If the resultant mixture contains 20% water, what was the initial quantity of mixture in the vessel before the replacement? (in litres)
(a)51 (b)102 (c)68
(d)85 (e)34
 - After replacing an old member by a new member, it was found that the average age of five members of a club is the same as it was 3 years ago. The difference between the ages of the replaced and the new members is :
(a) 2 years (b) 4 years (c) 8 years
(d) 15 years (e)none of these
 - In an examination, Arun scored 35 marks less than Rahul. Rahul scored 55 more marks than Monika. Rohit scored 85 marks, which is 10 marks more than Monika's. Raju scored 61 marks less than the maximum marks of the test. What approximate percentage of marks did Raju score in the examination, if he got 44 marks more than Arun?
(a) 80% (b) 75% (c) 69.5%
(d) 62% (e) None of these
 - In a circular race of 900m length, A and B start with speeds 27 km/hr and 36 km/hr starting at the same time from the same point. When will they meet for the first time at the starting point when running in opposite direction?

- (a) 2 min 50 sec (b) 6 min (c) 5 min 40 sec
(d) 7 min (e) None of these

15. The volumes of a right circular cylinder and a sphere are equal. Their radii are also equal. If h is the height of the cylinder and d is the diameter of the sphere, then find the correct relation from the given options.

- (a) $h = d$ (b) $2h = d$ (c) $2h = 3d$
(d) $3h = 2d$ (e) None of these

Direction(16-20): Solve the equations given below and answer

- (a) if $x > y$ (b) if $x < y$
(c) if $x \geq y$ (d) if $x \leq y$
(e) $x = y$ or no relation can be established

16. $6x^2 + 31x + 35 = 0$

$2y^2 + 3y + 1 = 0$

17. $2x^2 - (4 + \sqrt{13})x + 2\sqrt{13} = 0$

$10y^2 - (18 + 5\sqrt{13})y + 9\sqrt{13} = 0$

18. $2x^2 + 9x + 10 = 0$

$4y^2 + 28y + 45 = 0$

19. $15x^2 - 11x - 12 = 0$

$20y^2 - 49y + 30 = 0$

20. $2x^2 - 15 = 7x$

$17y = -7 - 6y^2$

Directions(21-25): Study the following table carefully and answer the questions given below it:

Area and Production of different vegetables		
Vegetables	Area (in Hectare)	Production (in tonnes)
Pea	7200	72792
Tomato	2600	79092
Beans	2100	20895
Onion & Garlic	1500	29490
Cabbage	1700	42670
Cauliflower	700	13790
Root vegetables	800	18560
Brinjal	300	4500
Leafy Vegetables	2900	28600

21. Tonnes per hectare of root vegetables produced is approximately what percentage of tonnes per hectare of Brinjal vegetables produced.

- (a) 150% (b) 155% (c) 160%
(d) 145% (e) 165%

22. In case of how many vegetables the production was more than 20 tonnes per hectare?

- (a) 5 (b) 4 (c) 3
(d) 2 (e) None of these

23. What is the ratio between the areas engaged in pea production and root vegetables to that of onion & garlic and brinjal production respectively?

- (a) 24 : 5 (b) 5 : 24 (c) 40:9
(d) 5 : 23 (e) None of these

24. What is the average production (in tonnes) of all vegetables?

- (a) 34467.7 (b) 348767 (c) 34487.67
(d) 35980.67 (e) 34467.67

25. How many more tonnes per hectare cabbage were produced in comparison to cauliflower?

- (a) 5.4 (b) 4.5 (c) 3.4
(d) 5.5 (e) None of these

Directions (26-30) : What should come in place of question mark (?) in the following questions ?

26. $36\% \text{ of } \left[\left(32\frac{1}{7}\% \text{ of } 4585 \right) \div 0.15 \right] = ? \times 27$

- (a) 124 (b) 128 (c) 131
(d) 136 (e) 140

27. $(\sqrt[3]{2.197} + \sqrt[3]{10.648}) \div \sqrt{0.0784} = ?\% \text{ of } 40$

- (a) 24.75 (b) 27.50 (c) 31.25
(d) 36 (e) 37.5

28. $10648 \left\{ (2197)^{\frac{1}{3}} + (6561)^{\frac{1}{4}} \right\}^{\frac{3}{3}} = ?$

- (a) 484 (b) 676 (c) 576
(d) 324 (e) 784

29. $\{9801 \div \sqrt{14641}\} \times \sqrt{72.25} = ? \div 6$

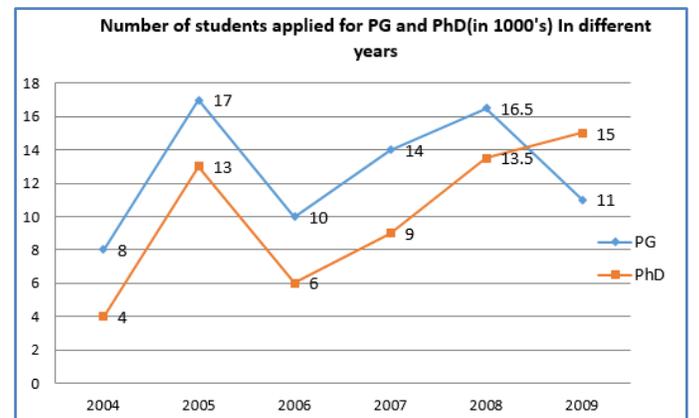
- (a) 3681 (b) 4131 (c) 4335
(d) 4563 (e) None of these

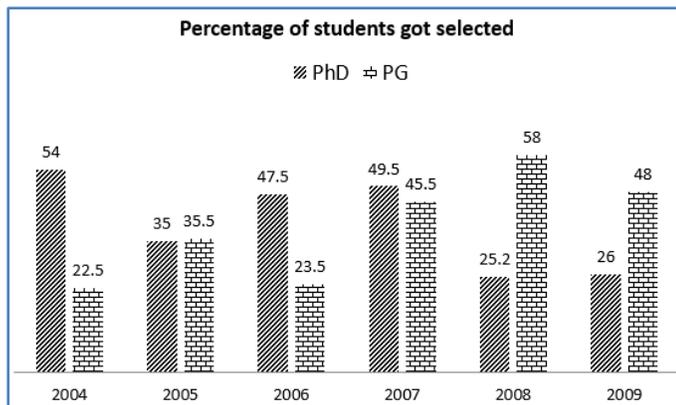
30. $1\frac{6}{7} \times 1\frac{5}{6} \times 1\frac{4}{5} \div 6\frac{9}{70} = \frac{1}{5} \times ?$

- a) 1 b) 2 c) 3
d) 4 e) 5

Directions (31-35): Read the following graph carefully and answer the questions given below:

Delhi University offers two courses PG and PhD. The information regarding number of students applied for these two courses and among how many got selected from year 2004-2009 are shown by the graph given below:





31. What is the respective ratio of the percentage increase/decrease in the students got selected for PG in 2005 over Year 2004 to the percentage increase/decrease in the number of students applied for PhD in year 2008 over year 2007.
- (a) 47 : 10 (b) 5 : 23 (c) 41 : 17
 (d) 27 : 7 (e) 26 : 9
32. Average number of students got selected for PhD program is by what percent more/less the average number of students applied for PG programs.
- (a) 72% less (b) 72% more (c) 82% less
 (d) 82% more (e) 77% more
33. Which year shows the highest quantum difference between the number of students applied and got selected for PhD programs.
- (a) 2004 (b) 2005 (c) 2006
 (d) 2008 (e) 2009
34. Ratio of Number of students selected in 2005, 2007 and 2009 for PhD course to number of students applied in 2004, 2006 and 2008 for same course is:
- (a) 2389 : 4980 (b) 2581 : 4700 (c) 2679 : 4321
 (d) 2471 : 5321 (e) None of the above
35. In PG program which year shows highest percentage increase/decrease in number of student selected over previous year?
- (a) 2005 (b) 2006 (c) 2007
 (d) 2008 (e) 2009

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