

**Quiz Date: 9<sup>th</sup> May 2020**

Directions (1-5): Study the following information carefully and answer the questions given beside:

There are five Buddhist temples in five different cities of India: Shrawasti, Bodh Gaya, Dehradun, Darjelling and Kushinagar. The total number of Buddhist devotees in all the cities are 9000. The strength of Shrawasti temple is 20% and that of Bodh Gaya is 35% of the total devotees of all the mentioned cities. Darjelling and Kushinagar have equal strength. 30% of the devotees of Shrawasti know only Sanskrit. 40% devotees of temple in Darjelling know only Hindi.

There are 10 more devotees in Bodh Gaya's temple who know only Hindi than the number of devotees of Darjelling's temple who know only Hindi. The strength of Dehradun's temple is 50% that of temple in Shrawasti. Two-fifths of devotees of Bodh Gaya's temple know both the languages. 40% devotees of Shrawasti's temple know both languages.

50% devotees of Dehradun's temple know only Hindi and the number of devotees of Dehradun's temple who know both the languages is equal to the number of devotees of Dehradun who know only Sanskrit. The number of devotees who know only Sanskrit from Kushinagar's temple is equal to the number of devotees who know only Hindi from Darjelling's temple.

The number of devotees who know only Hindi from Kushinagar's temple is 40 more than the number of devotees who know only Hindi from Dehradun's temple. The number of devotees of Darjelling's temple who know only Sanskrit is 45 more than the number of devotees who know both the languages from Kushinagar's temple. Each devotee knows at least one of the two languages. Sanskrit and Hindi.

Q1. What is the percentage of the number of Buddhist devotees who know both the languages?

- (a) 36.5%
- (b) 34.5%
- (c) 26.5%
- (d) 24.5%
- (e) 44.5%

Q2. What is the difference between the number of Buddhist devotees who know Sanskrit and those who know only Hindi ?

- (a) 4500
- (b) 4000
- (c) 2500
- (d) 3500
- (e) 3200

Q3. The number of Kushinagar Buddhist temple devotees who know only Sanskrit language is how many times of those who know both the languages from Shrawasti temple?

- (a) 1.875 times

- (b) 0.875 times
- (c) 0.675 times
- (d) 1.225 times
- (e) 0.725 times

Q4. What is the ratio of the total number of devotees who know both the languages from temple Shrawasti and temple Dehradun together to the total number of devotees from temple Darjelling?

- (a) 4: 5
- (b) 3: 5
- (c) 5: 7
- (d) 5: 4
- (e) None of these



Q5. What is the maximum difference between the number of devotees who know only Sanskrit and only Hindi from a certain temple?

- (a) Darjelling
- (b) Dehradun
- (c) Shrawasti
- (d) Bodh Gaya
- (e) Kushinagar

Directions (6 -10): What approximate value will come at the place of question (?) mark.

Q6.  $147.98\% \text{ of } 2274.98 + (7.04)^3 + 7.98\% \text{ of } ? = (62.05)^2$

- (a) 1575
- (b) 1475
- (c) 1275
- (d) 1675
- (e) 1550

Q7.  $\frac{2249.85}{74.8} + 138.9 = (?)^2 - 47.95\% \text{ of } 750 - 199.95$

- (a) 16
- (b) 18
- (c) 20
- (d) 27
- (e) 22

Q8.  $239.89\% \text{ of } 400.23 + (35.96)^2 - 59.99\% \text{ of } 1999.89 = (24.89)^2 + ?$

- (a) 421  
(b) 431  
(c) 441  
(d) 411  
(e) 401

Q9.  $3027.89 + 671.93 - 39.87\% \text{ of } ? + (9.98)^3 = (59.87)^2 - \sqrt{9999.98}$

- (a) 4000  
(b) 3500  
(c) 2000  
(d) 2500  
(e) 3000

Q10.  $\sqrt{429.87 + 520.23 + \sqrt{120.97}} = (?)^2 + \sqrt{35.98}$

- (a) 2  
(b) 3  
(c) 8  
(d) 5  
(e) 9

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**Solutions**

Sol (1-5):

Following the given information, we can create a table as follows:

Temples	Total	Only Sanskrit	Only Hindi	Both Sanskrit & Hindi
Shrawasti	20% of 9000 = 1800	30% of 1800 = 540	540	40% of 1800 = 720
Bodh Gaya	35% of 9000 = 3150	1250	630 + 10 = 640	2/5 of 3150 = 1260
Dehradun	50% of 1800 = 900	225	50% of 900 = 450	225
Darjelling	1575	455 + 45 = 500	40% of 1575 = 630	445
Kushinagar	1575	630	450 + 40 = 490	455

S1. Ans. (b)

Sol. Total number of Buddhist devotees who know both languages =  $720 + 1260 + 225 + 445 + 455 = 3105$

Total number devotees in all the cities = 9000

$$= \frac{3105}{9000} \times 100 = 34.5\%$$

S2. Ans. (d)

Sol. Total number of devotees who know Sanskrit =  $540 + 1250 + 225 + 500 + 630 = 3145 + 3105$  (from both the languages) = 6250

Total number of devotees who know only Hindi =  $540 + 640 + 450 + 630 + 490 = 2750$

Reqd. difference =  $6250 - 2750 = 3500$



S3. Ans. (b)

Sol. Total number of Kushinagar Buddhist temple devotees who know only Sanskrit = 630

Total number of Shrawasti Buddhist temple devotees who know both the languages = 720

Required answer =  $\frac{630}{720} = 0.875$  times

S4. Ans. (b)

Sol. Total number of devotees from Shrawasti temple who know both the languages = 720

Total number of devotees from Dehradun temple who know both the languages = 225

=  $720 + 225 = 945$

Total number of devotees from Darjeeling temple = 1575

Required ratio =  $\frac{945}{1575} = \frac{3}{5} = 3 : 5$

S5. Ans. (d)

Sol. Following the common explanation, we get that the Bodh Gaya temple has the maximum difference between the no. of devotees who know only Sanskrit and only Hindi.

S6. Ans(d)

Sol.

$$\frac{148}{100} \times 2275 + 343 + \frac{8}{100} \times ? = 3844$$

$$3367 + 343 + 0.08 \times ? = 3844$$

$$0.08 \times ? = 3844 - 3710$$

$$? = \frac{134}{0.08}$$

$$? = 1675$$

S7. Ans(d)

Sol.

$$\frac{2250}{75} + 139 = (?)^2 - \frac{48}{100} \times 750 - 200$$

$$30 + 139 = (?)^2 - 360 - 200$$

$$(?)^2 = 169 + 560$$

$$? = 27$$

S8. Ans(b)

Sol.

$$\frac{240}{100} \times 400 + 1296 - \frac{60}{100} \times 2000 = 625 + ?$$

$$960 + 1296 - 1200 - 625 = ?$$

$$? = 431$$

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S9. Ans.(e)

Sol.

$$3028 + 672 - 40\% \text{ of } ? + (10)^3 = (60)^2 - \sqrt{10000}$$

$$3700 + 1000 + 100 - 3600 = \frac{40 \times ?}{100}$$

$$? = 3000$$

S10. Ans (d)

$$\sqrt{430 + 520 + \sqrt{121}} = (?)^2 + \sqrt{36}$$

$$\sqrt{430 + 520 + 11} = (?)^2 + 6$$

$$31 - 6 = (?)^2$$

$$? = 5$$

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