

Quiz Date: 20th July 2020

Directions (1-5): **Study the following information carefully to answer the questions.**

In a comparative study of population of six states. A, B, C, D, E and F the following were observed.

Female population of state A is 120% of the male population of state C and 90% of the female population of state D.

Male population of state B is 125% of the male population of state D and $1\frac{11}{14}$ times of the male population of state E. Male and female populations of state D are in the ratio of 13 : 12 respectively.

Male population of state A is $\frac{5}{11}$ th of the total population of the state which is 198000.

Female population of state C is 110% of the female population of state A and 75% of the male population of state F.

Male and female populations of state E are in the ratio of 7 : 8 respectively.

Female population of state B is 150% of the male population of state A.

Female population of state F is equal to the male population of state D.

Q1. Male population of state A is what percent more or less than female population of state B?

- (a) $14\frac{2}{7}\%$
- (b) $16\frac{2}{3}\%$
- (c) $25\frac{2}{3}\%$
- (d) $33\frac{1}{3}\%$
- (e) $28\frac{2}{7}\%$

Q2. What is the ratio of male population of state C to the female population of state F?

- (a) 7 : 12
- (b) 8 : 15
- (c) 9 : 13
- (d) 11 : 16
- (e) 10 : 13

Q3. What is the total population in state D?

- (a) 1,80,000
- (b) 2,50,000
- (c) 2,10,000
- (d) 2,60,000
- (e) 2,00,000

Q4. What is the average of female population from state A, B and D together?

- (a) 1,21,000
- (b) 1,22,000
- (c) 1,18,000
- (d) 1,15,000
- (e) 1,24,000

Q5. What is the total population of state F?

- (a) 1,90,600
- (b) 2,58,600
- (c) 2,22,400
- (d) 1,53,500
- (e) 2,88,400

Directions (6-10): What approximate value will come in place of (x) in the following questions ?

Q6. 79.99% of $899.99 + (16.02)^2 \times 3.99x = (10.97)^3 - 98.96$

- (a) 1
- (b) 1.5
- (c) 0.5
- (d) 2
- (e) 0

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Q7. $\frac{3}{4} \times (15.99) + 31.99\%$ of $3199 + 294.9 = x^3$

- (a) 10
- (b) 11
- (c) 12
- (d) 15
- (e) 8

Q8. $\sqrt[3]{511} + \sqrt{323} + \sqrt[3]{1130} = x$

- (a) 32
- (b) 34
- (c) 37

- (d) 28
- (e) 30

Q9. $35\% \text{ of } 3500 - 12\% \text{ of } 5000 = x^2$

- (a) 22
- (b) 23
- (c) 25
- (d) 28
- (e) 30

Q10. $(0.449)^2 \times 12.49\% \text{ of } (3.99)^3 - 3\sqrt{x} = \sqrt{x}$

- (a) $\frac{1}{4}$
- (b) $\frac{1}{2}$
- (c) 2
- (d) 4
- (e) 5

Q11. The number of ways in which a committee of 5 can be chosen from 6 male and 5 female candidates such that there is at most three male candidates in the committee.

- (a) 318
- (b) 381
- (c) 385
- (d) 391
- (e) 481

Q12. A number is selected at random from the first 35 natural numbers. What is the probability that it is either a multiple of 5 or a multiple of 7?

- (a) $\frac{14}{35}$
- (b) $\frac{11}{35}$
- (c) $\frac{12}{35}$
- (d) $\frac{17}{35}$
- (e) $\frac{23}{35}$

Q13. Three cards are drawn from a pack of cards at random. What is the probability that they consist of two different colours?

- (a) $\frac{11}{17}$
- (b) $\frac{13}{17}$
- (c) $\frac{13}{15}$
- (d) $\frac{15}{17}$
- (e) $\frac{13}{24}$

Q14. All possible four-digit numbers, with distinct digits are formed, using the digits {1, 3, 4, 5, 6}. How many of them are divisible by 5?

- (a) 8

- (b) 12
 (c) 24
 (d) 20
 (e) 28

Q15. In a bag there are three pink and five white bolls. Three bolls are chosen randomly. What is the probability that at least one is pink and atmost two are white?

- (a) 11/28
 (b) 23/28
 (c) 13/28
 (d) 15/28
 (e) None of these



Solutions

S(1-5)

State	Male	Female
A	90,000	1,08,000
B	1,62,500	1,35,000
C	90,000	1,18,800
D	1,30,000	1,20,000
E	91,000	1,04,000
F	1,58,400	1,30,000

S1. Ans.(d)

Sol.

$$\begin{aligned} \text{Required percentage} &= \frac{1,35,000 - 90,000}{1,35,000} \times 100 \\ &= \frac{45,000}{1,35,000} \times 100 = 33\frac{1}{3}\% \end{aligned}$$

S2. Ans.(c)

Sol.

$$\text{Required ratio} = \frac{90,000}{1,30,000} = 9 : 13$$

S3. Ans.(b)

Sol.

Total population of state = $1,30,000 + 1,20,000 = 2,50,000$

S4. Ans.(a)

Sol.

Average of female population of state A, B and D together

$$= \frac{108000 + 135000 + 120000}{3}$$

$$= 121000$$

S5. Ans.(e)

Sol.

Total population of F = $1,58,400 + 1,30,000 = 2,88,400$

S6. Ans.(c)

Sol.

$$\approx \frac{80}{100} \times 900 + (16 \times 16) \times 4x = (11)^3 - 99$$

$$\approx 720 + 1024x = 1331 - 99$$

$$\approx 1024x = 1331 - 99 - 720$$

$$\approx x = 0.5$$

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S7. Ans.(b)

Sol.

$$\approx \frac{3}{4} \times 16 + \frac{32}{100} \times 3200 + 295 = x^3$$

$$\approx 12 + 1024 + 295 = x^3$$

$$\approx 1331$$

$$\approx x = 11$$

S8. Ans.(c)

Sol.

$$\approx 8 + 18 + 11 = x$$

$$\approx x = 37$$

S9. Ans.(c)

Sol.

$$\approx \frac{35}{100} \times 3500 - \frac{12}{100} \times 5000 = x^2$$

$$\approx x = 25$$

S10. Ans.(a)

Sol.

$$\approx \frac{1}{4} \times \frac{1}{8} \times 4^3$$

$$\approx 2 = 4\sqrt{x}$$

$$\approx x = \frac{1}{4}$$

S11. Ans.(b)

Sol.

Total ways

$$= (5 F, 0 M) \text{ or } (4 F, 1 M) \text{ or } (3 F, 2 M) \text{ or } (2 F, 3 M)$$

$$= {}^5C_5 + {}^5C_4 \times {}^6C_1 + {}^5C_3 \times {}^6C_2 + {}^5C_2 \times {}^6C_3$$

$$= 381$$

S12. Ans.(b)

Sol. Number may be of 5, 10, 15, 20, 25, 30, 35 or 7, 14, 21, 28, 35

$$\therefore \text{Required probability} = \frac{7}{35} + \frac{5}{35}$$

$$= \frac{12}{35}$$

S13. Ans.(b)

Sol.

Possible number of ways = Two black and one red or one black and two red.

$$= {}^{26}C_2 \times {}^{26}C_1 + {}^{26}C_1 \times {}^{26}C_2$$

$$= 2 \times 13 \times 25 \times 26$$

Total number of ways = ${}^{52}C_3$

$$= \frac{52 \times 51 \times 50}{1 \times 2 \times 3}$$

$$= 20 \times 17 \times 50$$

Probability of the event

$$= \frac{2 \times 13 \times 25 \times 26}{26 \times 17 \times 50} = \frac{13}{17}$$

S14. Ans.(c)

Sol.

Consider four blanks

The units place is filled with 5. The remaining three blanks can be filled with 4 digits in 4P_3 ways.

∴ The number of four-digit numbers required is 24.

S15. Ans.(b)

Sol.

3P, 5W

Favorable cases

= (1P and 2W) or (2P and 1W) or (3P)

Required probability

$$\begin{aligned} &= \frac{{}^3C_1 \times {}^5C_2}{{}^8C_3} + \frac{{}^3C_2 \times {}^5C_1}{{}^8C_3} + \frac{{}^3C_3}{{}^8C_3} \\ &= \frac{3 \times 10 \times 6}{8 \times 7 \times 6} + \frac{3 \times 5 \times 6}{8 \times 7 \times 6} + \frac{6}{8 \times 7 \times 6} \\ &= \frac{46}{56} = \frac{23}{28} \end{aligned}$$



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