### Prepp

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## **IBPS PO**

**Quantitative Answer** 

# Simplifying **Government Exams**



#### **IBPS PO MAINS-2016(QUANTITATIVE APPTITUDE)**

#### **Memory Based Solutions**

S51. Ans.(c)
Sol. Required central angle = 
$$\frac{72}{100} \times 360$$
Sol. Required central angle =  $\frac{72}{100} \times 360$ 
Sol. Sol. Required central angle =  $\frac{72}{100} \times 360$ 
Sol. Sol. Sol. Ans.(d)
Sol. Sol. Sol. Ans.(d)
Sol. Sol. Sol. Ans.(d)
Sol. Sol. Sol. Ans.(d)
Sol. Required no. of items unsold =  $(250 - 90)$ 
Sol. Ans.(a)
Sol. Required no. of items old =  $121 + 144$ 
Sol. Sol. Ans.(a)
Sol.  $\frac{100 \times 4}{300} = \frac{2}{3}$ 
 $\frac{100 \times 4}{300} = \frac{2}{3}$ 
Sol. Item B =  $\frac{100}{100} \times 500$ 
Sol. Item B =  $\frac{100}{100} \times 500$ 
Sol. Ans.(a)
Sol. Required difference =  $(290 - 210) = 80$ 
Sol. Sol. Ans.(b)
Sol. Sol. Ans.(c)
Sol. Ans.(d)
Sol. Sol. Ans.(d)
Sol. Sol. Ans.(d)
Sol. Required difference =  $(42 + 24 + 14) - (36 + 32 + 24) = 12000$ 
Sol. Ans.(d)
Sol. Sol. Ans.(d)
Sol. Required difference =  $(42 + 24 + 14) - (36 + 32 + 24) = 12000$ 
Sol. Sol. Ans.(a)
Sol. Required difference =  $(42 + 24 + 14) - (36 + 32 + 24) = 12000$ 
Sol. Ans.(d)
Sol. Required difference =  $(42 + 24 + 14) - (36 + 32 + 24) = 12000$ 
Sol. Ans.(a)
Sol. Required difference =  $(42 + 24 + 14) - (36 + 32 + 24) = 12000$ 
Sol. Ans.(b)
Sol. Sol. Ans.(c)
Sol. No. of viewers of theatre A in October =  $\frac{5}{7} \times (\frac{32 + 24}{2}) = 20$ 
thousand
Sol. Distance covered along the stream =  $36$ 
Distance covered along the stream =  $36$ 
Distance covered against the stream =  $36$ 
Distance overed against the stream =  $36$ 
Sol. Ans.(d)
Sol. Required difference =  $45800 - 28000 = 17800$ 
Sol. Ans.(d)
Sol. Required difference =  $45800 - 28000 = 17800$ 
Sol. Ans.(d)
Sol. Required the A in October =  $\frac{5}{7} \times (\frac{32 + 24}{2}) = 20$ 
thousand
Sol. Ans.(d)
Sol. Total mulk =  $20$ 
Sol. Ans.(d)
Sol. Total viewers in march  $2016 = 100800 - 55000 = 10000 + 100000 + 100000 + 100000 + 10000$ 

Ratio of profit = 15 : 6 : 7

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21000 \rightarrow \frac{115000}{23000} \times 21000
Sol. \times 2.\times 2.5,\times 3,\times 3.5 ....
    45 \times 3.5 = 157.5 not 157
                                                                                     Profit of B in 2012 = 105000
S71. Ans.(b)
                                                                                     Since profit of all in 2016 is not given, we can't determine the
    Sol. \frac{4X+15}{X} = \frac{19}{4}
                                                                                     required ratio.
     Total milk = 20
                                                                                     S79. Ans.(d)
                                                                                     Sol. Required \% = \frac{82500 - 37000}{37000} \times 100
    Milk in jar B = \frac{1}{5} \times 20 = 4L
S72. Ans.(b)
Sol. Ratio of efficiency = 5 \times \frac{5}{6}: 6
                                                                                     S80. Ans.(b)
     = 25 : 36
                                                                                     Sol. Let investment by C in 2016 = x
     Let a man can finish the work in 25x days
                                                                                     \frac{11000 + 20000}{20000 + x} = \frac{31}{52}
     A woman can finish the work in 36x days
    \frac{9}{36x} + \frac{10}{25x} = \frac{13}{40}
                                                                                     x = 32000
                                                                                     \therefore Ratio of their investment = 11:20:32
     Time taken by 1 women = 72 days
                                                                                     Required profit = \frac{21}{63} \times 445500 = 148500 Rs.
     No. of women required to complete the work in 4.5 days
                                                                                     Sol. \angle 0 = 2 \times 55^{\circ} = 110
S73. Ans. (b)
                                            Boys
                                                       Girls
                                                                                     x^{\circ} = 180 - (75^{\circ} + (90^{\circ} - 35^{\circ}))
                                             (50)
                                                       (35)
                                                                                     x^{\circ} = 50^{\circ}
           Only Badminton 25
                                            14
                                                                                     so, x < 55^{\circ}
           Badminton + TT
                                            5
           Only. TT
                                 20
                                            14
                                                                                     S82. Ans.(a)
S74. Ans. (a)
                      Let cp of mouse =x
                                                                                     Sol.
                                 Cp of laptop=15x
                                                                                     (x^a)c = x^c
                                 Total SP=16x \times 1.3 = 20.8x
                                                                                     ac = c
                                 SP of laptop=15x \times 1.25 = 18.75x
                                                                                     a = 1
                                                                                    \frac{x^{2b}}{x^a} = x^{5a} \times x^d \times x^b
                                                                       x = 2000,
           mouse=2.05x,profit=1.05x=2100,
                                                                                     Or, 2b - a = 5 + d + b
           15x = 30000
                                                                                     b = 6a + d
S75. Ans. (c) Let MP of shirt = 100
                                                                                     b = 6 + d
           MP 	ext{ of trouser} = 200
                                                                                     so b > d
           Discounted price of shirt = 60
           Let discounted price of trouser = x
60 + x = \frac{70}{100} \times (100 + 200)
                                                                                     S83. Ans.(b)
                                                                                     Sol. Let us take the value of a = 1 \& b = 1 putting this in the
                                                                                     equation we get
           Discount = \frac{(200-150)}{200} \times 100 = 25\%
                                                                                     x = 1
                                                                                     So, x < 1.5
S76. Ans.(a)
Sol. 8000 \rightarrow 14000
                                                                                     S84. Ans.(b)
7000 \rightarrow \frac{14}{8} \times 7000 = 12250
                                                                                     Sol. Probability that both balls are either Red or White
Then profit made by A in 2014 = 49000 - (14000 + 12250)
                                                                                     = \frac{4_{C_2} + 6_{C_2}}{20_{C_2}} = \frac{6 + 15}{190} = \frac{21}{190}
= 22750 \text{ Rs}.
\therefore 14000 \rightarrow 8000
                                                                                     Probability that both bolls are of different colours (RWO,
                                                                                    RWB, WOB and ROB) = \frac{(4 \times 6 \times 2) + (4 \times 6 \times 8) + (6 \times 2 \times 8) + (4 \times 2 \times 8)}{20c} = \frac{20}{57}
22750 \rightarrow \frac{8}{14} \times 22750 = 13000
∴ Required Ratio = 5000 : 13000
                                                                                     Quantity I < Quantity II
= 5:13
                                                                                     S85. Ans.(d)
S77. Ans.(c)
                                                                                     Sol.
                                                                                                Α
Sol. 6 \times A : 4B = 50 : 44
                                                                                                CP
                                                                                                                                  CP
A : B = 25 : 33
                                                                                     MP \rightarrow 1.4 CP
                                                                                                                                  1.4 CP
A= 25000
                                                                                                1.4 \text{ CP} \times 0.75
                                                                                                                                 1.4CP \times 0.80
B= 33000
                                                                                     Profit = (1.4 \times 0.75 \text{ CP} + 1.4 \times 0.80 \text{ CP}) - 2\text{CP}
\frac{33000\times 4}{9000x} = \frac{44}{24}
                                                                                     34 = 0.17CP
                                                                                     CP = 200
X = 8 months
S78. Ans.(d)
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Sol.  $23000 \rightarrow 115000$ 

1.25x - x = 25  
0.125x = 25  
x = 200  
So, quantity I = Quantity II  
S86. Ans.(d)  
Sol. 
$$36\sqrt{x} + 32\sqrt{x} = \frac{68}{11} \times x$$
  
 $68\sqrt{x} = \frac{68}{11} \times x$   
 $\sqrt{x} = 11$   
 $x = 121$   
S87. Ans.(a)  
Sol. 9 + 100 + 64 + 16  $\approx$  190  
S88. Ans.(b)  
Sol.  $\approx$  19 × 19 + 19  
 $\approx$  19 × 20  
 $\approx$  380  
S89. Ans.(d)  
Sol. 1235 + 6 × 15 = 53 ×  $\sqrt{x}$   
 $\sqrt{x} = 25$   
 $x = 625$   
S90. Ans.(e)  
Sol.  $\frac{2850}{50} = 57$ 

#### S91. Ans.(c)

Sol. The quantity of each gradient A & B in the mixture is not known, so, the cost price of the mixture cannot be found out from the available statements. Hence profit percentage cannot be known.

#### S92. Ans.(d)

Sol. In the question asked, there are two unknowns (work rate of men and work rate of women). Three statements will form three distinct equations. In the question itself, one equation is formed. So, any one of the given statements is sufficient. Therefore, any two of three statements can be dispensed with.

#### S93. Ans.(c)

Sol. Statement I gives the same equation as statement III  $\,$ , so any one of these 2 statements can be dispensed with.

#### S94. Ans.(d)

Sol. In I the amount spent on food and on medicine, education has been indicated in percentage, but nothing has been mentioned for savings amount. In II, the amount spent on food has been given in Rupees and in III, the amount spent on medicine & education has been given in Rupees. So, combining the percentage value of I and rupees value of II or the percentage value of I and its rupees value of III, the amount saved can be found out. So either II or III can be dispensed with.

#### S95. Ans.(c)

Sol. From statement III CP is known. So, by using any of the remaining statements we can get the answer. So either I or II can be dispensed with.

#### **Solution (96-100)**

Total employees (450) Officers – 200

#### Clerks - 250

CICI K3 - 230	
HRM (50)	Off – 10 Clerk – 40
Computer - Skills (90)	Off - 20 Clerk - 70
Financial skills (87)	Off – 40 Clerk – 47
HRM + CS (45)	Off - 20 Clerk - 25
HRM + FS (130)	Off - 80 Clerk - 50
C5 + F5 (21)	Off - 12 Clerk - 9
All (27)	Off - 18 Clerk - 9

S96. Ans.(b)

Sol. Required Officers taking training in HRM = 10 + 80 + 18 +

20 = 128

S97. Ans.(d)

Sol. Clerks training in CS but not in HRM = 70 + 9 = 79

S98. Ans.(e)

Sol. Employees taking training in FS but not in HRM = 87 + 21 = 108

S99. Ans.(a)

Sol. Required Clerks = 47 + 50 + 9 + 9 = 115

S100. Ans.(c)

Sol. Required  $\% = \frac{20+20}{200} \times 100 = 20\%$ 

## Prepp

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