## IBPS Guide

## YEARLY PLATINUM PACKAGE

$1000+$ Mock tests (Covers All Important Bank, Insurance, SSC \& Railway Exams)

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

The following bar graph shows the total number of books read by 6 different persons in the year 2005 and 2006.


1) Find the ratio between the total number of books read by the person $P, Q$ and $R$ together in the year 2005 to that of total number of books read by the person $S, T$ and $U$ together in the year 2006?
a) $13: 17$
b) $41: 49$
c) $25: 32$
d) $67: 73$
e) None of these
2) Find the average number of books read by all the given persons in the year 2005?
a) 155
b) 165
c) 170
d) 160
e) None of these
3) Total number of books read by person $Q$ and $S$ together in the year 2005 is what percentage of total number of books read by person $R$ and $T$ together in the year 2006?
a) $95 \%$
b) $100 \%$
c) $80 \%$
d) $85 \%$
e) None of these
4) Find the difference between the total number of books read by the person $P$ and $T$ together in the year 2005 to that of total number of books read by the person $Q$ and $S$ together in the year 2006?
a) 70
b) 40
c) 60
d) 80
e) None of these
5) If the total number of books read by the person A in the year 2005 is $\mathbf{2 0} \%$ more than the total number of books read by the person $Q$ in the same year and that of books read by the person $A$ in 2006 is same as that total books read by the person $S$ in
the same year, then find the total number of books read by the person $A$ in the both years together?
a) 380
b) 400
c) 320
d) 360
e) None of these

Directions (Q. 6 - 10): What value should come in place of (?) in the following number series?
6) $11, ?, 16,21,29,41$
a) 13
b) 12
c) 14
d) 15
e) None of these
7) $1800, ?, 60,15,5,2.5$
a) 150
b) 300
c) 450
d) 600
e) None of these
8) $150,152,147,157, ?, 166$
a) 125
b) 138
c) 140
d) 150
e) None of these
9) $\mathbf{2 0 0}, \mathbf{1 0 0}, 150,375$, ?, 5906.25
a) 1312.5
b) 1115.5
c) 1227.5
d) 1445.5
e) None of these
10) $4,3,4,9,32$, ?
a) 147
b) 160
c) 155
d) 165
e) None of these

Directions (Q. 11-20): What value should come in place of (?) in the following questions?
11) $(\mathbf{7 8 9}+417+673+228) \div(18+22-?+38)=49$
a) 60
b) 45
c) 35
d) 50
e) None of these
12) $[(1 / 57) \times 1767]+(8 / 27) \times 2484=? \times 3$
a) 356
b) 428
c) 477
d) 266
e) None of these
13) $41 / 7+52 / 7-34 / 7+25 / 14=$ ? $-61 / 2$
a) $145 / 7$
b) $123 / 5$
c) $92 / 3$
d) $104 / 9$
e) None of these
14) $\mathbf{1 8} \%$ of $\mathbf{4 5 0} \mathbf{- 2 5} \%$ of $\mathbf{1 8 0}=\mathbf{?}-\sqrt{ } \mathbf{3 2 4} \%$ of $\mathbf{9 0 0}$
a) 256
b) 312
c) 344
d) 198
e) None of these
15) $72 \times 6 \times(125-97)+1254 \div 3 \div 11-66^{2}=$ ?
a) 6152
b) 6524
c) 7196
d) 7778
e) None of these
16) $\mathbf{6 5 / 8 \%}$ of $\mathbf{9 6 0 0}+(1425 \div \mathbf{2 5} \div 3]=127+$ ?
a) 576
b) 528
c) 534
d) 552
e) 590
17) $\mathbf{1 5} \%$ of $\boldsymbol{?} \mathbf{- 2 3 6 6} \div \mathbf{1 3} \mathbf{- 1 2 7 5} \div \mathbf{3}=\mathbf{6 8}$
a) 3600
b) 2700
c) 4500
d) 4800
e) None of these
18) $\mathbf{?} \div \mathbf{5}+\mathbf{1 2 5} \times \mathbf{1 1}=\mathbf{4 2 8 8}+\mathbf{5 5 7 2}$
a) 42425
b) 40560
c) 39750
d) 37240
e) None of these
19) $33 / 13$ of $4355-27^{2}=?+561$
a) 11360
b) 12780
c) 14570
d 15890
e) None of these
20) $\mathbf{2 1} \times \mathbf{7 4 / 7}$ of $(\mathbf{?} \div \mathbf{1 1})=\mathbf{3 1 8}$
a) 45
b) 34
c) 22
d) 16
e) None of these
21) If the length of a rectangle is increased by $25 \%$ while the breadth of the rectangle is decreased by $20 \%$, then find percentage change in area of the rectangle?
a) $10 \%$ decreased
b) $5 \%$ decreased
c) $10 \%$ increased
d) $5 \%$ increased
e) No change
22)Two pipes $A$ and $B$ can fill a tank alone in 20 minutes and 25 minutes respectively. If both the pipes are opened simultaneously, then after how much time pipe $B$ should be closed, so that tank is full in 12 minutes?
a) 8 min
b) 9 min
c) 7 min
d) 10 min
e) None of these
23) A shopkeeper sold an article for Rs. 660 at a loss of $12 \%$. At what price should it be sold to gain a profit of $8 \%$ ?
a) Rs. 780
b) Rs. 810
c) Rs. 830
d) Rs. 800
e) None of these
24) A student gets $\mathbf{1 6} \%$ marks and fails by 20 marks. Another student gets $\mathbf{2 4} \%$ marks so he gets 52 marks more than the passing marks. Find the passing mark?
a) 164
b) 175
c) 158
d) 144
e) None of these
25) The speed of a car is two-third of the speed of a train. Train covers 240 km in 3 hours. How much distance will the car cover in 5hrs?
a) 400 km
b) 360 km
c) 420 km
d) 340 km
e) None of these
26) Thirty percent of Arun's monthly salary is equal to Rajesh's monthly salary. If Arun's monthly salary is Rs. 45000, then what is Rajesh's annual salary?
a) Rs. 178000
b) Rs. 162000
c) Rs. 156000
d) Rs. 184000
e) None of these
27) The difference between Simple interest and Compound interest on a certain sum at the rate of 8 \% per annum for two years is Rs. 256. Find the simple interest on that sum at the rate of $14 \%$ per annum after 8 years?
a) Rs. 47500
b) Rs. 41200
c) Rs. 36400
d) Rs. 44800
e) None of these
28) A certain number of men complete a piece of work in 40 days. If there were 8 men more, the work could be finished in 10 days less. How many men were originally there?
a) 24
b) 32
c) 48
d) 66
e) None of these
29) $P$ and $Q$ started a business by investing Rs. 18000 and Rs. 24000 respectively. After 5 months, $P$ invested Rs. 2000 more. And after 4 months, $Q$ withdraw the whole amount. Find the share of $Q$, if the total profit at the end of the year is Rs. 73590?
a) Rs. 28950
b) Rs. 27680
c) Rs. 35640
d) Rs. 33290
e) None of these
30) Abirami got married 5 years ago. Today her age is $1(1 / 5)$ times of that at the time of her marriage. At present, her daughter's age is one eighth of her age, after 2 years. What will be her daughter's age after $\mathbf{3}$ years?
a) 8 years
b) 7 years
c) 10 years
d) 9 years
e) None of these

Directions (Q. 31-35) In the following questions, two equations I and II are given. You have to solve both the equations and give answer as,
a) If $x>y$
b) If $x \geq y$
c) If $x<y$
d) If $x \leq y$
e) If $x=y$ or the relation cannot be established
31)
I) $2 x^{2}+25 x+57=0$
II) $3 y^{2}+21 y+36=0$
32)
I) $x^{2}-9 x-52=0$
II) $y^{2}-15 y+54=0$
33)
I) $\mathrm{x}^{2}-8 \mathrm{x}-48=0$
II) $y^{2}-10 y+24=0$
34)
I) $6 x-5 y=-15$
II) $2 x-3 y=-1$
35)
I) $5 x^{2}-30 x+45=0$
II) $4 y^{2}+15 y-54=0$

Answers:

1) Answer: B

The total number of books read by the person $\mathrm{P}, \mathrm{Q}$ and $R$ together in the year 2005
$=>120+150+140=410$
The total number of books read by the person $\mathrm{S}, \mathrm{T}$ and U together in the year 2006
$=>200+180+110=490$
Required ratio $=410: 490=41: 49$

## 2) Answer: D

The average number of books read by all the given persons in the year 2005
$=>(120+150+140+180+160+210) / 6$
$=>160$

## 3) Answer: B

Total number of books read by person Q and S together in the year 2005
$=>150+180=330$
Total number of books read by person R and T together in the year 2006
$=>150+180=330$
Required \% = $(330 / 330) * 100=100 \%$
4) Answer: E

The total number of books read by the person P and T together in the year 2005
$=>120+160=280$
The total number of books read by the person Q and S together in the year 2006
$=>130+200=330$
Required difference $=330-280=50$

## 5) Answer: A

The total number of books read by the person A in the both years together
$=>150 *(120 / 100)+200$
$=>180+200=380$

## 6) Answer: A

The difference of difference is $1,2,3,4$
7) Answer: B

The pattern of the series is $\div 6, \div 5, \div 4, \div 3, \div 2$
8) Answer: C

The pattern of the series is $+2,-5,+10,-17,+26$.
The difference is $7,15,27,43$
The difference of difference is $8,12,16$
9) Answer: A

The pattern of the series is $\times 0.5, \times 1.5, \times 2.5, \times 3.5, \times 4.5$
10) Answer: $C$

The pattern of the series is $\times 1-1, \times 2-2, \times 3-3, \times 4-4, \times 5-$ 5

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## SBI Clerk Prelims 2019 Memory Based Model Paper - Quantitative Aptitude

11) Answer: $C$
$(789+417+673+228) \div(18+22-x+38)=49$
$2107 \div(78-x)=49$
$2107 / 49=78-x$
$43=78-\mathrm{x}$
$\mathrm{x}=78-43$
$\mathrm{x}=35$
12) Answer: $D$
$3 \times ?=(1767 / 57)+[(8 \times 2484) / 27]$
$62+736=3 \mathrm{x}$
$3 \mathrm{x}=798$
$\mathrm{X}=266$
13) Answer: A
$(4+5-3+2+6)(1 / 7+2 / 7-4 / 7+5 / 14+1 / 2)=x$
$\mathrm{X}=14[(2+4-8+5+7) / 14]$
$\mathrm{X}=14(10 / 14)=14(5 / 7)$
14) Answer: $C$
$(18 / 100) * 450-(25 / 100) * 180=x-(18 / 100) * 900$
$81-45=x-162$
$36+162=x$
X = 198
15) Answer: $D$
$(72 * 6 * 28)+1254 \div 3 \div 11-66^{2}=x$
$12096+38-4356=\mathrm{x}$
$\mathrm{x}=7778$

## 16) Answer: $B$

$(53 / 800) * 9600+((1425 / 25) / 3)=127+x$
$636+19-127=x$
$\mathrm{X}=528$
17) Answer: $C$
$(15 / 100) * x-(2366 / 13)-(1275 / 3)=68$
$(3 x / 20)=68+182+425$
$(3 \mathrm{x} / 20)=675$
$\mathrm{X}=675^{*}(20 / 3)=4500$
18) Answer: $C$
$(\mathrm{x} / 5)+1375=4288+5572$
$(\mathrm{x} / 5)=9860-1375$
$(x / 5)=8485$
$\mathrm{x}=42425$
19) Answer: B
$(42 / 13) * 4355-729=x+561$
14070-729-561 = x
$\mathrm{X}=12780$
20) Answer: $C$
$21 *(53 / 7) *(x / 11)=318$
$\mathrm{X}=(318 * 7 * 11) /(21 * 53)$
$\mathrm{X}=22$
21) Answer: E

Let the length and breadth of the rectangle is 10 cm and 10 cm ,

Previous area $=10 * 10=100$
New length $=10 * 125 / 100=12.5$
New breadth $=10 * 80 / 100=8$
New area $=12.5 * 8=100$
No change in the area of the rectangle.
22) Answer: $D$
$(12 / 20)+(x / 25)=1$
$(x / 25)=1-(3 / 5)$
$(x / 25)=2 / 5$
$\mathrm{X}=(2 / 5) * 25=10 \mathrm{~min}$
After 10 min , B should be closed.
23) Answer: B
$(88 / 100) *$ Cost price $=660$
Cost price $=660 *(100 / 88)=$ Rs. 750
To get a profit of $8 \%$,
Selling price $=750 *(108 / 100)=$ Rs. 810
24) Answer: A

Let the maximum mark be x ,

Here the passing mark is equal. So,
$(16 / 100) * x+20=(24 / 100) * x-52$
$(24 / 100) * x-(16 / 100) * x=72$
$(8 / 100) * x=72$
$\mathrm{X}=7200 / 8=900$
Passing mark $=(16 / 100) * 900+20=144+20=164$
25) Answer: A

Speed of train $=360 / 3=120 \mathrm{~km} / \mathrm{hr}$
Speed of car $=120 \times(2 / 3)=80 \mathrm{~km} / \mathrm{hr}$
Required distance $=80 \times 5=400 \mathrm{~km}$

## 26) Answer: B

Arun's monthly salary = Rs. 45000
(30/100)*Arun's monthly salary = Rajesh monthly
salary
Rajesh monthly salary $=(30 / 100) * 45000=$ Rs. 13500
Rajesh's annual salary
= $>13500 * 12$
= > Rs. 162000

## 27) Answer: D

The difference between CI and SI for two years is,
Diff $=P *(r / 100)^{2}$
$256=\mathrm{P}^{*}(8 / 100)^{2}$
$256 *(25 / 2)^{2}=\mathrm{P}$
$\mathrm{P}=256^{*}(625 / 4)=40000$
S.I $=(40000 * 14 * 8) / 100$
S. I = Rs. 44800
28) Answer: A

Let the no of men be $x$,
Work = men*days
Here work is equal. So,
$40 * x=(x+8) * 30$
$4 \mathrm{x}=3 \mathrm{x}+24$
$X=24$
29) Answer: $C$

The share of P and Q ,
$=>[18000 * 5+20000 * 7]:[24000 * 9]$
$=>230000: 216000$
$=>115: 108$
$223 ' s=73590$
1 's $=330$
The share of $\mathrm{Q}=108$ 's = Rs. 35640

## 30) Answer: B

Today her age $=(6 / 5)^{*}$ Age, at the time of her marriage

Today her age : Age, at the time of her marriage $=6$ : 5

5 years ago, she got married.
1 's $=5$
Present age of Abirami $=30$ years
Daughter's present age $=(32 / 8)=4$ years
Daughter's age after 3 years $=7$ years
31) Answer: $E$
I) $2 x^{2}+25 x+57=0$
$2 \mathrm{x}^{2}+6 \mathrm{x}+19 \mathrm{x}+57=0$
$2 \mathrm{x}(\mathrm{x}+3)+19(\mathrm{x}+3)=0$
$(2 x+19)(x+3)=0$
$X=-19 / 2,-3=-9.5,-3$
II) $3 y^{2}+21 y+36=0$
$3 y^{2}+12 y+9 y+36=0$
$3 y(y+4)+9(y+4)=0$
$(3 y+9)(y+4)=0$
$\mathrm{Y}=-3,-4$
Can't be determined
32) Answer: $C$
I) $x^{2}-9 x-52=0$
$(x+13)(x-4)=0$
$X=-13,4$
II) $y^{2}-15 y+54=0$
$(y-9)(y-6)=0$
$\mathrm{Y}=9,6$
$x<y$
33) Answer: $B$
I) $x^{2}-8 x-48=0$
$(x-12)(x+4)=0$
$\mathrm{x}=12,-4$
II) $y^{2}+10 y+24=0$
$(y+6)(y+4)=0$
$y=-6,-4$
$x \geq y$
34) Answer: $C$
$6 x-5 y=-15---\rightarrow(1)$
$2 x-3 y=-1---\rightarrow(2)$
By solving the equation (1) and (2), we get,
$x=-5, y=-3$
$\mathrm{x}<\mathrm{y}$
35) Answer: A
I) $5 \mathrm{x}^{2}-30 \mathrm{x}+45=0$
$5 x^{2}-15 x-15 x+45=0$
$5 x(x-3)-15(x-3)=0$
$(5 \mathrm{x}-15)(\mathrm{x}-3)=0$
$x=15 / 5,3=3,3$
II) $4 y^{2}+15 y-54=0$
$4 y^{2}+24 y-9 y-54=0$
$4 y(y+6)-9(y+6)=0$
$(4 y-9)(y+6)=0$
$y=9 / 4,-6=2.25,-6$
$x>y$

