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## IBPS Clerk Exam 2019 35 Important Questions (PDF)

## Quantitative Aptitude



Direction: What value should come in place of the question mark (?) in the following question?

1. $321 \times 16 \div 8+34=(?)^{2}$
A. $\sqrt{26}$
B. $(26)^{2}$
C. $(676)^{2}$
D. 676
E. None of these

Direction: What value should come in place of the question mark (?) in the following question?
2. $15 \times 18-4+6-?=20 \div 4+26$
A. 212
B. 241
C. 157
D. 311
E. 273

Direction: What value should come in place of the question mark (?) in the following question?
3. $567-4824 \div 134=? \times 9$
A. 33
B. 59
C. 37
D. 57
E. None of these

Direction: What value should come in place of question mark (?) in the following question?
4. $35 \%$ of $180-\sqrt{ } 49=$ ?
A. 62
B. 55
C. 58
D. 67
E. None of these

Direction: What value should come in place of the question mark (?) in the following question?
5. $6824+7864=? \times 40$
A. 376.4
B. 359.2
C. 363.4
D. 367.2
E. None of these

Direction: What value should come in place of the question mark (?) in the following question?
$\sqrt{\frac{32.4}{12.1}} \times \sqrt{\frac{67.6}{14.4}}=$ ?
A. $3 \frac{5}{11}$
B. $3 \frac{6}{11}$
C. $3 \frac{3}{11}$
D. $2 \frac{6}{11}$
E. None of these

Direction: What value should come in place of question mark (?) in the following question.
7. $42 \%$ of $420+36 \%$ of $60=(?) \%$ of $1400-20 \%$ of 760
A. 25
B. 20
C. 15
D. 16
E. 28

Direction: What value should come in place of the question mark (?) in the following question?
8.

A. 5
B. 9
C. 3
D. 6
E. 7

Direction: What value should come in place of the question mark (?) in the following question?
$? \times 25 \div 6=1962.5$
9.
A. 541
B. 457
C. 358
D. 471
E. None of these

Direction: What value should come in place of the question mark (?) in the following question?
$2704 \div 2 \times ?=31096$
10.
A. 21
B. 33
C. 23
D. 26
E. None of These

Direction: What approximate value should come in place of the question mark (?) in the following question (Note: You are not expected to calculate the exact value)?
11. $(14.999)^{2}-\sqrt[4]{1300}+\sqrt{99}=$ ?
A. 250
B. 229
C. 270
D. 255
E. 240

Direction: What should come in place of question mark (?) in the following question? (You do not have to calculate the exact value.)
12. $19750.015 \div 979.82 \times 201.04=$ ?
A. 45
B. 200
C. 4050
D. 10500
E. 20000

Direction: What approximate value should come in place of the question mark (?) in the following equation (Note: You are not expected to calculate the exact value)?
13. $7777.009-596.999-89.989=$ ?
A. 6080
B. 6800
C. 7090
D. 8200
E. 7500

Direction: What approximate value should come in place of the question mark (?) in the following equation (Note: You are not expected to calculate the exact value)?
14. $31.85 \div 3.90 \times 15=$ ?
A. 120
B. 90
C. 80
D. 140
E. 160

Direction: What approximate value should come in place of the question mark (?) in the following equation (Note: You are not expected to calculate the exact value)?
15. $5466.97-3245.01+1122.99=?+$ 2309.99
A. 1130
B. 1000
C. 1100
D. 1035
E. 1060

Directions: What approximate value will come in place of question mark (?) in the following equations?
16. $59220 \div 3214.05 \times 514.13+$ $5231.92=$ ?
A. 13617
B. 14700
C. 14000
D. 13511
E. 14300

Direction: What approximate value should come in place of the question mark (?) in the following question (Note: You are not expected to calculate the exact value)?
17. $3.5 \%$ of $180 \div 0.6 \%$ of $250=$ ?
A. 12
B. 4
C. 1
D. 9
E. 25

Direction: What approximate value will come in place of the question mark (?) in the following question? (You are not expected to calculate the exact value)
18. $2.5 \%$ of $3451 \times 0.8 \%$ of $7799.998=$ ?
A. 6642
B. 5382
C. 5035
D. 4562
E. 4380

Direction: What approximate value should come in place of the question mark (?) in the following question (Note: You are not expected to calculate the exact value)?
19. $(1041.92+?) \div 2.998=1816.012 \div$ 3.988
A. 450
B. 380
C. 320
D. 420
E. 390

Direction: What approximate value should come in place of the question mark (?) in the following question (Note: You are not expected to calculate the exact value)?
20. $768.011 \div 11.92 \times \sqrt{ } 257-58.02=$ ?
A. 840
B. 1020
C. 966
D. 820
E. 910

Direction: What should come in place of the question mark (?) in the following number Series?
21. 5, 10, 25, 75, 262.5, ?
A. 850
B. 425.5
C. 1050
D. 1020
E. None of these
22. Direction: What should come in place of the question mark (?) in the following number series? 12, 17, 30, 59, 112, (?)
A. 197
B. 195
C. 208
D. 205
E. None of these

Direction: What should come in place of question mark (?) in the following number series?
23. $36,18,6,3,1$, ?
A. 0.25
B. 1.5
C. 0.5
D. 0.75
E. 2
24. Direction: What will come in place of question mark (?) in the following number series?
447, 335, 279, 251, 237, ?
A. 230
B. 229
C. 227
D. 232
E. None of these

Direction: What will come in place of the question mark (?) in the following number series?
25. $50,44,52,80,134,220$,?
A. 344
B. 264
C. 256
D. 244
E. 324

Direction (26-30) : Study the line graph carefully and answer the given questions.
Strength of Seven Technology Institutes with Specializations in IT, Electronics and Mechanical in 2012

26. If the number of students with Mechanical specialization in each institute increased by $20 \%$ and the number of students with IT specialization in each institute decreased by $10 \%$ from 2012-13, what is the difference between total mechanical student to total IT student in 2013.
A. 1177
B. 1077
C. 1277
D. 1377
E. none of these
27. What is the ratio between total number of students in institutes $R$ and V respectively?
A. 39 : 43
B. $39: 44$
C. $37: 44$
D. $39: 45$
E. $38: 43$
28. What is the difference between total number of students with Electronics specialization from all the institutes together and the total number of students with Mechanical
specialization from all the institutes together?
A. 220
B. 240
C. 280
D. 210
E. 250
29. If the number of students in institutes $\mathrm{P}, \mathrm{Q}$ and R with IT specialization increased by $15 \%$, $22 \%$ and $10 \%$ respectively from 2012 to 13, what was the total number of students with IT specialization in the three institutes together in 2013?
A. 1028
B. 1056
C. 898
D. 1142
E. 1145
30. In institutes $P, T$ and $U$ the percentage of girls out of total number of students with Electronics specialization in respective institute is $50 \%, 55 \%$ and $48 \%$ respectively, what is the approx total number of boys in these three institutes with Electronics specialization?
A. 391
B. 386
C. 356
D. 360
E. 314
31. A car started its journey with its usual speed but after travelling for 5 hours the car meet with an accident so the speed of the car reduced by $8 \%$ and it took 6 hours to cover the remaining 276 km then find the percentage by which distance travelled by the car in first 5 hours is less than the remaining distance covered by the car?
A. 5.55
B. 9.42
C. 7.12
D. 8.26
E. 4.86
32. A shopkeeper purchase two quantities of rice at the rate of Rs. $20 / \mathrm{kg}$ and Rs. 26/kg. In 5.2 kg of the second quantity, how much rice of the first quantity should be mixed so that by selling the resulting mixture at Rs.30/ kg , he gains a profit of 25\%.
A. 3.5
B. 3.2
C. 2.6
D. 2.8
E. 2.4
33. There are three persons $A, B$ and $C$. A invested $20 \%$ more than that of $B$ and C invested $40 \%$ more than that of $B$. If the difference between the
investment of $A$ and $C$ is Rs 4000 than find the investment of $A$ ?
A. 24000
B. 18000
C. 17500
D. 18600
E. 40000
34. A dealer sold a radio at a loss of $2.5 \%$. Had he sold it for Rs 100 more, he would have gained $7.5 \%$. For what value should he sell it in order to gain 12.5\%?
A. Rs. 1125
B. Rs. 1520
C. Rs. 1225
D. Rs. 1350
E. None of these
35. Andrew covers a distance of 900 kms in 10 hours partly by train and partly by air. Had he covered the whole distance via airways he would have saved $\frac{4}{5}$ th of the time he was in train and would reach destination 5 hours earlier. Find the speed of the train.
A. 34 kmph
B. 48 kmph
C. 42 kmph
D. 36 kmph
E. 46 kmph

## ANSWER

1. Ans. E.
$321 \times 16 \div 8+34=321 \times 2+34=$ $642+34=676$
$676=(?)^{2}$
$\Rightarrow(26)^{2}=(?)^{2}$
$\Rightarrow$ ? $=26$
Hence option E is correct
2. Ans. B.
$15 \times 18-4+6-?=20 \div 4+26$
$270-4+6-?=5+26$
272-?=31
?=241
3. Ans. B.
$567-\frac{4824}{134}=? \times 9$
$\Rightarrow 567-36=? \times 9$
$\Rightarrow$ ? $=\frac{531}{9}$
$\Rightarrow$ ? $=59$
4. Ans. E.

$$
?=\frac{180 \times 35}{100}-\sqrt{49}
$$

? $=63-7$
? $=56$
5. Ans. D.
$6824+7864=? \times 40$
$\Rightarrow 14688=? \times 40$
$\Rightarrow$ ? $=\frac{14688}{40}=367.2$
6. Ans. B.
$?=\sqrt{\frac{32.4}{12.1}} \times \sqrt{\frac{67.6}{14.4}}=\frac{18}{11} \times \frac{26}{12}=\frac{39}{11}=3 \frac{6}{11}$
7. Ans. A.

Substituting (?) with " $x$ "
$\frac{42}{100} \times 420+\frac{36}{100} \times 60=\frac{x}{100} \times 1400-\frac{20}{100}$
$\times 760$
$176.4+21.6=14 x-152$
$198=14 x-152$
$198+152=14 x$
$350=14 x$
$\frac{350}{14}=x$
$\mathrm{x}=25$
8. Ans. E.
$(90 \times 72.9)^{\frac{1}{2}} \div(30 \times 2.7)^{\frac{1}{2}} \times 243=3^{?}$
$(6561)^{\frac{1}{2}} \div(81)^{\frac{1}{2}} \times 243=3^{\text {? }}$
$\frac{81}{9} \times 243=3$ ?
$3^{(2+5)}=3^{?}$
$3^{?}=3^{7}$
? $=7$
Hence option E is the right answer.
9. Ans. D.
$? \times 25 \div 6=1962.5$
$? \times 25=1962.5 \times 6$
$25 ?=11775$
? = 11775/25
? = 471
10. Ans. C.
$2704 \div 2 \times ?=31096$
$1352 \times$ ? = 31096
? $=31096 / 1352=15548 / 676$
? = 23
11. Ans. B.

Take nearest values
$(14.999)^{2}$

$225-6+10=229$
12. Ans. C.

As per the BODMAS rule, the priority in which the operations should be done is:

| Priority wise operations | Symbol |
| :---: | :---: |
| B-Bracket | () |
| O-Of | Of |
| D-Division | $/, \div$ |
| M-Multiplication | $*, \times$ |
| A-Addition | + |
| S-Subtraction | - |

Note: Addition and subtraction can be treated on same priority (from left to right) when they are in consecutive order.

$$
\begin{aligned}
& ?=19750 \times \frac{1}{980} \times 201 \\
& ? \approx 20.15 \text { I } 201 \\
& ?=4050.76 \approx 4050 \\
& \text { 13. Ans. C. }
\end{aligned}
$$

$7777.009-596.999-89.989=$ ?
? $=7777-597-90$
$?=7777-687$
$?=7090$
14. Ans. A.
$31.85 \div 3.90 \times 15=$ ?
Approximates value can be calculated as
$\approx 32 \div 4 \times 15=8 \times 15$
$=120$
Hence, option (A) is correct.
15. Ans. D.
$5466.97+1122.99=?+2309.99+$
3245.01
? = 6590-5555
= 1035 (approx)
16. Ans. B.
$59220 \div 3214.05{ }^{\times} 514.13+5231.92$
$=$ ?
Or, ? $=18.42^{\times} 514+5232$
$=8467.88+5232=14699.88 \approx 14700$
17. Ans. B.
$3.5 \%$ of $180 \div 0.6 \%$ of 250
$=(3.5 \times 1.8)^{\div}(1500 / 1000)$
$=6.3^{\div} 1.5$
$=4.2 \approx 4$
18. Ans. B.
$\frac{25}{1000} * 3450 * \frac{8}{1000} * 7800$ $\approx 69 \times 78=$
5382
19. Ans. C.

By replacing the "?" with " $x$ "
$(1042+x) \div 3=1816 \div 4$
$(1042+x) \div 3=454$
$1042+x=454 \times 3$
$1042+x=1362$
$x=1362-1042$
$x=320$
20. Ans. C.
$768 \div 12 \times \sqrt{ } 256-58$
$\frac{768}{12}$
$\times 16-58$
$64 \times 16-58$
1024-58
966
21. Ans. C.
$5 \times 2=10$
$10 \times 2.5=25$
$25 \times 3=75$
$75 \times 3.5=262.5$
$262.5 \times 4=1050$
22. Ans. A.

12, 17, 30, 59, 112, (197)
$+5+13+29+53+85$
$+8+16+24+32$
23. Ans. C.

Given number series -
$36,18,6,3,1$, ?
The pattern is as follows:
$36 / 2=18$
$18 / 3=6$
$6 / 2=3$
$3 / 3=1$
$1 / 2=0.5$
24. Ans. A.

25. Ans. A.
$1^{3}+7^{2}=50$
$2^{3}+6^{2}=44$
$3^{3}+5^{2}=52$
$4^{3}+4^{2}=80$
$5^{3}+3^{2}=134$
$6^{3}+2^{2}=220$
$7^{3}+1^{2}=344$
26. Ans. B.

Total mechanical student $=$
$[(280+360+200+260+320+320+380) / 1$
$00] * 120=2544$
Total IT student $=$
$[(220+240+320+140+280+150+280) / 1$
$00] * 90=1467$
Difference $=$ 2544-1467 = 1077
27. Ans. B.

Total student in $\mathrm{R}=200+260+320=$ 780
Total student in $\mathrm{V}=220+280+380=$
880
Ratio $=780: 880=39: 44$
28. Ans. D.

Total mechanical student $=$
$(280+360+200+260+320+320+380)=$ 2120
Total Electronics student $=$
$(340+300+260+340+190+260+220)=$ 1910
Difference $=2120-1910=210$
29. Ans. C.

Total number $=[(220 * 115 / 100]+$ [(240*122/100]+ [(320*110)/100] = 898
30. Ans. A.

Total no. of boys (Approx.) in $P, T$ and $U$
$=[(340 * 50) / 100]+[(190 * 45 . / 100]+$
[(260*52/100] $=391$
31. Ans. B.

Speed of the car in covering the remaining distance $=276 / 6=46 \mathrm{kmph}$
Original speed of the car $=46 * 100 / 92=$ 50kmph
Distance travelled by the car in first 5
hours $=50 * 5=250 \mathrm{~km}$
Difference between distance travelled= $276-20=26$
Required percentage $=26 * 100 / 276=$ 9.42\%
32. Ans. C.

Rs 30 and 25 \% gain means:-
The Price where no profit and no loss
occur $=30 * 100 / 125=$ Rs $24 / \mathrm{kg}$
Now By alligation
2026
24
2: 4
1: 2
$2==5.2 \mathrm{~kg}$
$1==2.6 \mathrm{~kg}$ Ans.
33. Ans. A.

Let the let the money invested by $B$ be $x$
Money invested by $A=x * 120 / 100=6 x / 5$
Money invested by $C=x * 140 / 100=7 x / 5$ So,
$7 x / 5-6 x / 5=4000$
$x / 5=4000$
$x=$ Rs 20000

So,
Money invested by $A=20000 * 120 / 100=$ Rs 24000
34. Ans. A.
let C.P. be $x$
$\frac{107.5}{100} x-\frac{97.5}{100} x=100$
$X=\frac{\frac{100 \times 100}{10}=\text { Rs. } 1000}{}$
112.5

Required S.P. $=100 \times 1000=$ Rs.
1125
35. Ans. D.

From the given problem,
Air + Train $=10$ hours of journey
Air $=5$ hours of journey
5 hours $=\frac{\frac{4}{5}}{}$ th of the time in train
Therefore, the time in train $=5^{*}$
$\frac{5}{4}$
hours $=6.25$ hours
So, the time in the airplane $=10-6.25$ $=3.75$ hours
Now it is already known that the speed of the airplane is $=900 / 5 \mathrm{kmph}=180$ kmph
Therefore,
The distance travelled in airplane $=$ $3.75 * 180 \mathrm{kms}=675 \mathrm{kms}$
The distance travelled in train $=900$ $675 \mathrm{kms}=225 \mathrm{kms}$
So, the speed of the train is $=225 / 6.25$ $\mathrm{kmph}=36 \mathrm{kmph}$

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