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IBM Series Questions: From previous papers. Try to solve all questions n learn the logic.
Enough for this section !! (Almost all questions that I got Yesterday was from below questions only !!)

1.) 1 ,3 ,1 ,2.5 ,5 ,1 ,4 ,5 ,4 ,8 ,7

$1+3+1=5$ & $5/2=2.5$), $(5+1+4=10$ & $10/2=5)$, $(4+8+7=19$ & $19/2=9.5)$

2.) 41.45 ,41.5 ,42 ,18.23 ,18.2 ,18(ANS: 73.1)

3.) 11 ,8 ,17 ,14 ,23 ,24 ,31 ,32

ANS:

$11 +6$ $17 +6$ $23 +8$ $31 +8$ 39

8 14 24 32

$(11-8=+3)(17-14=+3)(23-24=-1) (31-32=-1)$

so ans=39

4.) 4 ,3 ,144 ,1.5 ,2 ,9 ,3.2 ,2

ANS:

$6.4*6.4$

5.) 4.2 ,7.2 ,11.4 ,6.1 , 9.1 , 15.2 ,3.8 , 6.8

ANS:

10.6

6.) $1/5$, $1/2$, $1/3$, $2/5$,1, $2/3$, $3/5$, $1\frac{1}{2}$,1, $4/5$

ANS:

1st series= $(1/5, 2/5, 3/5, 4/5)$

diff bwn each term= $-1/5$

2nd series= $(1/2, 1, 1\frac{1}{2}, x) = (0.5, 1, 1.5, 2) \Rightarrow x=2$

diff bwn each term= -0.5

3rd series= $(1/3, 2/3, 1, x) = > x=4/3$

diff bwn each term= $-1/3$

ans = 2

7.) 5, 1, 2, 8, 8, 1, 0, 9, 9, 2, 3

ANS:

14

8.) 5, 1, 2, 8, 1, 0, 9, 2, 3, 14, 1, 3

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ANS:

18

9.) 6, 3, 3, 9, 12, 5, 7, 35, 8, 6, 2

ANS:12

10.) 24, 42, $1/2$, 2, 65, 56, $1\frac{1}{5}$, $5/6$, 73, 37

ANS: $7/3$

11.) 4, 2, 5, 9, 5, 11, 13, 7, 16, 17, 9

ANS:

4,2,5,9,5,11,13,7,16,17,9,?

see the triplets

4,2,5 -> diff b/w 4,5 = 1

9,5,11 -> diff b/w 9,11 = 2

13,7,16 -> diff b/w 13,16 = 3

17,9,21 -> diff b/w 17,21 = 4

so the answer should be 21

12.) 8, 16, 3, 27, 4, 8, 7, 19, 2, 0, 7

ANS:

$8+16+3=27$

$4+8+7=19$

Likewise, $2+0+7=9$

the answer is 9

13.) $5/6$, $1/3$, $1/2$, $1/2$, $2/8$, $1/4$, $5/6$, $1/6$, $2/3$, $1/2$, $1/3$

ANS: $1/6$

14.) 115, 100, 86, 74, 65, 60

ANS: 60

15.) 100, 98, 95, 90, 83

ANS: 72

16.) 0, 8, 12, 26, 23

ANS:

(0,8),(12,26),(23,?)

Difference : 8 14 x

Now, $14-8=6 \rightarrow x-14=6 \rightarrow x=20$

Since, $?-23=x=20 \rightarrow ?=43$ Ans.

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17.) 7.2, 2.2, 3.2, 16, 11, 12, 60, 55, 56

ANS: 280

=====

18.) 18, 24, 5, 21, 8, 27, 17, 23, 4, 24, 30

ANS:

$$18+6=24, 24-19=5$$

$$21+6=27, 27-19=8$$

$$17+6=23, 23-19=4$$

$$24+6=30, 30-19=11$$

so 11 is the next term.

=====

=====

1) .7 , 1.2, 1.2 , 2.2 , 1.7, 3.2, 2.2, 4.2 , ?

ANS: 2.7

2) 81, 9², 162, 49, 7², 98, 25, 5², 50, 64, 8² ?

ANS: 128

3) 1, 1, 2, 4 , 6, 36, 39, 1521, ?

ANS: 1525

4) 2, 3, 10, 15, 26, 35, 50, ?

ANS: 63

5) 2, 8, 3, 27, 4, 64, 5, 125, 6, 216, ?

ANS: 7

6) 2, 3, 6, 13, 28, ?

ANS:

2, 3, 6, 13, 28, ?

diff are : 1, 3, 7, 15, 31

$$1*2+1=3$$

$$3*2+1=7$$

$$7*2+1=15$$

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$$15 \times 2 + 1 = 31$$

So Ans will be: $28 + 31 = 59$

7) 38, 36, 76, 35, 114, 34, ?

ANS: 152

8) $\frac{1}{5}$, $\frac{1}{2}$, $\frac{1}{3}$, $\frac{2}{5}$, 1, $\frac{2}{3}$, $\frac{3}{5}$, $\frac{3}{2}$, 1, $\frac{4}{5}$, ?

ANS: 2

9) 96, 64, 128, 192, 128, 256, 288, 192, ?

ANS: 384

10) 1370, 1320, 1070, -180, ?

????????????????????????????????????

11) 3, 2, 1, 4, 5, 4, 5, 1, 0, 6, 3, 2, ?

ANS: 7

12) 1 1 1 2 2 2 3 4 3 3 5 6 ?

ANS: 4

13) 507, 169, 248, 62, 36, 12, 168, 42, 168 ?

ANS: 56

14) 7.2, 2.2, 3.2, 16, 11, 12, 60, 55, 56, ?

ANS: 280

15) 2, 6, 5, 14, 11, 26, 17, ?

ANS:

2, 5, 26 is 1 series $5 = 2 \times 2 + 1$ and $26 = 5 \times 5 + 1$

6, 11, 17 is another series $11 = 6 \times 2 - 1$ $17 = 6 \times 3 - 1$

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16) 115, 100, 86, 74, 65, 60, ?

ANS: 60

17) 8 5 9 7 2 25 5 1 16 8 6 ?

ANS:

4

18) -5 1 -11 23 29 17 -20 -14 ?

ANS: 23

a) 3,7,10,8,4,12,0,5,5,3,2,?

ANS: 5

b) 0,1,1,2,0.5,2,2,4,2,2,4,3,7,2,?

ANS: 3.5

c) 1,1,2,4,6,36,39,1521,?

ANS: 1525

d) 7,4,6,3,4.5,1.5,2.25,?

ANS: -0.75

e) 2,9,5,49,11,169,?

Ans:17

f) 49,7,98,16,4,48,9,3,36,25,5,?

ANS: 125

g) 2,6,5,14,11,26,17,?

ANS: 38

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h) 7,0,1,8,5,12,9,26,3,23,2,?

ANS: 28

i) 2,3,10,15,26,?

ANS:

Ans= 35

$$(1^2)+1=2$$

$$(2^2)-1=3$$

$$(3^2)+1=10$$

$$(4^2)-1=15$$

$$(5^2)+1=26$$

$$(6^2)-1=35$$

j) 5,16,22,68,28,87,36,106,11,?

ANS:

$$5*3=15+1=16$$

$$22*3=66+2=68$$

$$28*3=84+3=87$$

$$36*3=108+4=112$$

$$11*3=33+5=38$$

ans is 38

k) 7776,625,64,9,?

l) 13,24,36,23,34,56,33,44,96,43,54,? Ans:116

The above series can be separated into

13,23,33,43

24,34,44,54

36,56,96,156

so the next series would be 53,64,236

m) 0,1,2,0.5,2,2,2,2,4,3,2,? Ans:3.5

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ANS:

$$0+1=1/2=0.5$$

n) 18,24,5,21,27,8,17,23,4,24,30,? Ans:9

first of all the series will be 18,24,5,21,27,8,17,23,4,24,30,?

The solution is...

$$18+6=24, 24-19=5$$

$$21+6=27, 27-19=8$$

$$17+6=23, 23-19=4$$

$$24+6=30, 30-19=11$$

so 11 is the next term.

o) 3,5,2,100,4,7,3,196,1,6,5,?

Ans:144

p) 8,5,9,7,2,25,5,1,16,8,6,?

ANS: 4

q) -3,6,1,-2,4,-1,-1,2,-3,?

r) $1/4, 1/4, 1/2, 3/2, 6, ?$ Ans:30

1) $1/4, 1/4, 1/2, 3/2, 6, ?$

2) 0.8, 1.8, 3.6, 3.6, 4.6, 9.2, 9.2, 10.2, ?

3) 22, 19.5, 21.45, 33, 30.5, 33.55, 44, 41.5, ?

4) $15 \frac{3}{4}, 16, 26, 9 \frac{1}{5}, 9, 19, 64 \frac{2}{3}, 65, 75, 30 \frac{3}{8}, ?$

5) 3, 2, 1, 4, 5, 4, 5, 1, 0, 6, 3, ?

6) $3/2, 2 \frac{1}{4}, 9/4, 7/2, 12 \frac{1}{4}, 49/4, 4/3, 1 \frac{1}{7}, 16/9, ?$

7) 18, 24, 5, 21, 27, 8, 17, 23, 4, 24, 30, ?

8) 100, 98, 95, 90, 83, ?

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9) 1, 3, 3, 2, 8, 10, 3, 4, 12, 4, 8, ?

10) 49, 7, 98, 16, 4, 48, 9, 3, 36, 25, 5, ?

11) 9, 12, 4, 8, 12, 15, 5, 9, 3, 6, 2, 6, 6, 9, ?

12) $\frac{5}{6}$, $\frac{1}{3}$, $\frac{1}{2}$, $\frac{1}{2}$, $\frac{2}{8}$, $\frac{1}{4}$, $\frac{5}{6}$, $\frac{1}{6}$, $\frac{2}{3}$, $\frac{1}{2}$, $\frac{1}{3}$, ?

13) 33, 8, 41, 21, 67, 72, 47, 119, 124, ?

14) $\frac{1}{7}$, $\frac{3}{4}$, $\frac{4}{9}$, $\frac{5}{6}$, $\frac{7}{11}$, $\frac{7}{8}$, ?

15) 7, 4, 6, 3, 4.5, 1.5, 2.25, -0.75, ?

1) 1, 2, 3, 6, 11, 20, 37, 68, _____

(sum of previous two+ current face value Ans=20+37+68)

2) 9, 3, 24, 4, 9, 3, 36, 6, 9, 3, 30, _____

(pattern is $x*3, x*6$ Ans=5)

3) 44, 4.4, .88, .264, 0.1056, _____

($x*.1, x*.2, x*.3, \dots$ Ans=0.5*0.1056)

4) 38, 36, 76, 35, 114, 34, _____

(Ans=38*4)

5) -12, 6, -15, -5, 28, -14, 9, 3, -18, _____

(Ans=9)

6) 5, 1, 2, 8, 8, 1, 0, 9, 9, 2, 3, _____

(Ans=14)

7) 56, 89, 33, 21, 57, 88, 35, 19, 60, 85, 30, _____

(Ans=24)

8) 3, 4.5, 7, 4, 6, 5.5, 5, 7.5, 10, 6, _____

(Ans=9.0)

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9) 7, -35, -34, -3, 15, 16, 4, _____

(Ans = -20)

10) 11, 8, 17, 14, 23, 24, 31, 32, _____

(Ans = 43)

11) 1.8, 3, 0.6, 2.5, 5, 0.5, 3.4, 2, 1.7, _____

(Ans = 4.5)

12) 1, 2, 3, 6, 11, 20, 37, 68, _____

(This question got repeated for me twice same as 1)

13) 9, 3, 6, 21, 9, 12, 33, 15, _____

(Ans = 33-15)

14) -16, -8, 4, 24, 12, -6, -40, _____

(Ans = -20)

15) 4.2, 26.0, 8.9, 8.4, 52.0, 17.8, 16.8, 104.0, _____

(Ans = 17.8×2)

16) 340, 680, 1428, 3141.6, _____

17) 7, -14, -4, 15, -30, -20, -21

1) 8, 0.5, 16, 4, 15, 0.3, 50, 4.5, 6, 0.2, 30, ?

2) 9, 4, 16, 6, 36, 21, 441, ? Ans: 421

3) 4, 2, 5, 9, 5, 11, 13, 7, 16, 17, 9, ?

4) 33, 8, 41, 46, 21, 67, 72, 47, 119, 124, ?

5) 3, 2, 1, 4, 5, 4, 1, 0, 6, 3, ?

6) 30.5, 31, 30, 0, 67.2, 67, 70, 100, 183.9, ?

7) 48, 24, 35, 7, 16, 8, 75, 15, 80, 40, ?

8) 1.8, 3, 0.6, 2.5, 5, 0.5, 3.4, 2, 1.7, 4.8, 6, ? Ans = 0.8

9) 1370, 1320, 1070, -180, ?

-> 9, 3, 24, 4, 9, 3, 36, 6, 9, 3, 30, ?

-> 52, 62, 42, 78, 89, 68, 49, 61, 39, 63, 76, ?

-> -16, -8, 4, 24, 12, -6, -40, ?

-> 49, 6, 25, 4, 36, 5, 81, 5, ?

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- > 9,3,6,21,9,12,33,15,18,?
- > 12,3,15,14,6,19,9,23,18,12,?
- > -15,-14,34,32,-42,-39,58,54,-61,?
- > 38,36,76,35,114,34,?
- > 30.5,31,30,0,67.2,67,70,100,183.9,?
- > 11,8,17,14,23,24,31,32,?
- > 10,12,-36,-7,-5,15,19,21,?
- > 44,4.4,0.88,0.264,0.1056,?
- > 11.5,17.5,35.5,89.5,?
- > 2,3,10,15,26,35,50,?
- > $\frac{1}{3}, \frac{1}{2}, \frac{1}{4}, 2\frac{1}{3}, 3\frac{1}{2}, 4\frac{1}{4}, 4\frac{1}{3}, 6\frac{1}{2}, ?$
- > 1.25,3,7.1,1.5,1,8.1,1.75,-1,9.1,0.75,2.00
- > 5,1,2,8,1,0,9,2,3,14,1.3,2,?

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