IBPS RRB PO Preliminary Grand Test –IRPP-170812

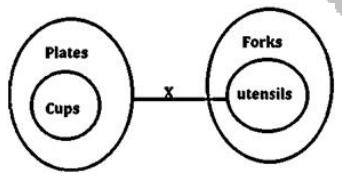
HINTS & SOLUTIONS

ANSWER KEY

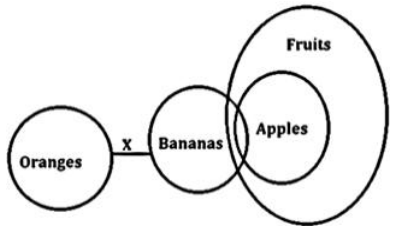
1.(4)	21.(1)	41.(3)	61.(2)
2.(4)	22.(4)	42.(1)	62.(4)
3.(2)	23.(3)	43.(4)	63.(1)
4.(3)	24.(5)	44.(3)	64.(2)
5.(5)	25.(4)	45.(2)	65.(1)
6.(3)	26.(2)	46.(4)	66.(3)
7.(3)	27.(3)	47.(3)	67.(1)
8.(2)	28.(2)	48.(2)	68.(1)
9.(1)	29.(5)	49.(3)	69.(3)
10.(4)	30.(1)	50.(4)	70.(4)
11.(3)	31.(5)	51.(1)	71.(3)
12.(3)	32.(1)	52.(5)	72.(5)
13.(5)	33.(3)	53.(3)	73.(1)
14.(2)	34.(1)	54.(2)	74.(5)
15.(2)	35.(3)	55.(4)	75.(2)
16.(4)	36.(2)	56.(2)	76.(2)
17.(3)	37.(2)	57.(5)	77.(5)
18.(2)	38.(4)	58.(3)	78.(2)
19.(5)	39.(2)	59.(1)	79.(1)
20.(1)	40.(5)	60.(2)	80.(1)

HINTS & SOLUTIONS

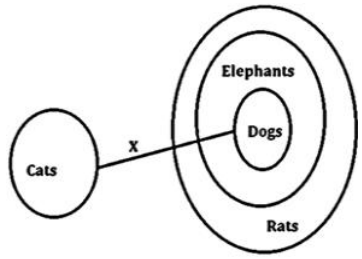
1.(4)



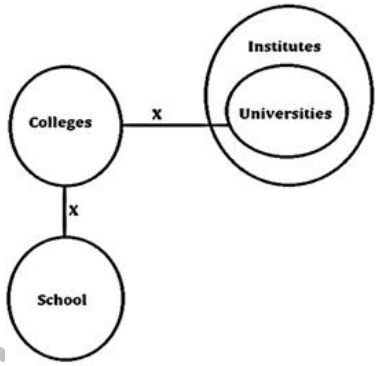
2.(4)



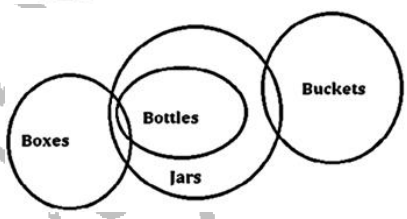
3.(2)



4.(3)



5.(5)



6.(3) After rearrangement, First two letter of each words change to next alphabet in English alphabetical order, they become-
SPCK NPCK UPNE GSOM UVRN FBCH
We can see that SPCK NPCK FBCH words have no vowel.

7.(3) After rearranging all the word, we have –
TURN TONE ROCK MOCK FROM EACH
4th from the left is MOCK.

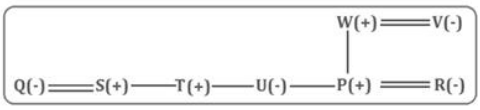
8.(2) After rearranging all the alphabets in reverse order of English alphabet, they become-
ROKC OMKC TONE ROMF UTRN HECA
We can see that OMKC and UTRN Words are begin with vowel, So here Four words are not begin with vowel.

9.(1) After rearrangment,1st alphabet of each words change to previous letter, they become-
OCK LOCK SONE EROM SURN DACH
The meaningful word is LOCK

10.(4) After rearrangement,1st and 3rd alphabets are interchanged and 2nd and 4th alphabetsare interchanged in each word, they become-
CKRO CKMO NETO OMFR RNTU CHEA
We can see that there are five words end with vowel.

11-15.

Persons	Games
P(+)	Poker
Q(-)	Bingo
R(-)	Let it Ride
S(+)	Craps
T(+)	Baccarat
U(-)	Sic Bo
V(-)	Keno
W(+)	Roulette



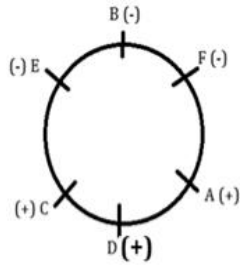
11.(3) 12.(3)
13.(5) 14.(2)
15.(2)

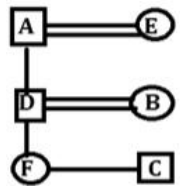
16-20.

Aspirants	Profile	Bank
C	Clerk	Vijya Bank
F	PO	Corporation Bank
G	PO	Bank of Baroda
B	IT Officer	PNB
A	IT Officer	Bank of India
E	IT Officer	Allahabad Bank
D	Clerk	SBI

16.(4) 17.(3)
18.(2) 19.(5)
20.(1)

21-25.





Order of the persons according to descending order of age is as follows : -
E > A > B > D > F > C.

21.(1) 22.(4)
23.(3) 24.(5)
25.(4)

26.(2) The new series obtained after the change is as follows:-
A I @ R X W S Δ H C D J N M # Q 6 1 9 5 L
T F * £ U G 3 2 B 4 7 Z $ V E Y 8
Now, the required element is (10+9) = 19th element from the left, i. e. 9.

27.(3)

★	+5	9	+5	M	+5	H	+5	R
5	+1	9	+1	1	+1	6	+1	Q
S	−2	H	−2	D	−2	N	−2	#

28.(2) We have to search for number – consonant – number sequence and number – consonant – Letter sequence. Only 'G' is such a consonant.
29.(5) Others are in order from left to right
30.(1) The new series obtained is as follows:-
B 2 3 G £ ✵ F T 5 9 1 6 # M N J
C H ▲ S X R @ I 4 7 Z $ E Y 8
Hence, the required element is J.

31-35.

Day	Subject
Monday	Mathematics
Tuesday	Psychology
Wednesday	Chemistry
Thursday	Computer
Friday	Biology
Saturday	Physics
Sunday	English

31.(5) 32.(1)
33.(3) 34.(1)
35.(3)

36-40. are→kee
armymen→ tee
firefighters→ mee
enthusiastic→pee
people→ nee
courageous→ loo
being→ jee
positive/unpleasant→ dee/see

36.(2) 37.(2)
38.(4) 39.(2)
40.(5)

41.(3) Average in first quarter $= \frac{6.75+5.75+4+23+8+8}{6}$
$= \frac{55.5}{6} = 9.25$
Average in fourth qarter $= \frac{8+7+4+22+9+9}{6}$
$= \frac{59}{6} = 9.833$

Difference = 0.58

42.(1) Required Ratio $= \frac{6.75+8.5+8.25+8}{5.75+7.5+7.25+7}$
$= \frac{31.5}{27.5} = \frac{63}{55}$

43.(4) Repo rate sum = 31.5
SLR sum = 23 + 22.5 + 23.5 + 22
= 91
Required percent $= \frac{31.5}{91} \times 100$
= 34.6%

44.(3) Average in first quarter = 9.25
Average in third quarter $= \frac{8.25+7.25+4.5+23.5+8.75+8.75}{6}$
$= \frac{61}{6} = 10.16$
Required percent $= \frac{10.16}{9.25} \times 100$
= 110%

45.(2) Average of MSF $= \frac{8+8.5+8.75+9}{4}$
$= \frac{34.25}{4} = 8.5625$
$Average\ of\ Bank\ Rate = \frac{8+8.5+8.75+9}{4} = 8.6525$
Sum = 8.5625 + 8.5625
= 17.1250

46.(4) $\frac{1200}{14900} \times 100 = 8\%$ (approx)

47.(3) Total officer = 72760
Total clerk = 105450
Difference = 32690

48.(2) Clerk = 11000
Officer = 9000
Req. percent% $= \frac{11000-9000}{9000} \times 100$
= 22% (approx)

49.(3) 300% means 4 times. The number of clerks in Hyderabad is 4 times that in Banglore.
50.(4) Mumbai has highest number of candidates.
51.(1) The pattern is : +(23 × 1), +(23 × 2), +(23 × 3), ……
52.(5) The pattern is :
×3 + 1.5, ×6 + 1.5 × 2, ×12 + 1.5 × 4, ×24 + 1.5 × 8
53.(3) The pattern is : $\times 2^2, \times 4^2, \times 6^2, \times 8^2$, ……
54.(2) Pattern of Series is – $2^3, 4^3, 6^3, 8^3, 10^3, 12^3$ …..
$\therefore 14^3 = 2744$.

55.(4) Pattern of Series is.
$3\times1+1=4$;
$4\times2+2=10$;
$10\times3+3=33$;
$33\times4+4=136$;
$136\times5+5=685$;
$685\times6+6=4116$;

56.(2) Required percentage
$$=\frac{90}{\frac{75+83+80+86+90+91}{6}}\times100=106.93\%$$

57.(5) Percentage increase in production in 2008 =2.35%
In 2009 = 2.29%
In 2010 = 2.24%
In 2011 = 1.09%
In 2012 = 4.34%
So second highest % increase in production is in year 2008.

58.(3) Average production in 2009
$$=\frac{105+83+300+281+35+89}{6}=\frac{893}{6}$$
Average production in 2012
$$=\frac{132+91+340+287+45+96}{6}=\frac{991}{6}$$
$$\text{Difference}=\frac{991-893}{6}=\frac{98}{6}\text{ lakh or }16\frac{1}{3}\text{ lakh}$$

59.(1) We can clearly see that only in company A there is decrease in production in last 3 years, so the average production in last 3 years of company A is less than that in first 3 years.

60.(2) No. of defective items by C in 2012
$$=\frac{35}{100}\times340=119\text{ lakhs}$$
Items having unacceptable defects
$$=\frac{400}{700}\times119=68\text{ lakhs}$$
Defective items sold in market
$$=119-68=51\text{ lakhs}$$

61.(2)
$$\begin{array}{l}4\ —\ A\ —\ 3\\3\ —\ B\ —\ 4\\-12\ —\ C\ —\ 1\end{array}\Big\rangle 12$$
$$-5$$
Till 5 pm part of cistern tank filled = $4\times2+3\times1$
$=8+3=11$
Cistern will be filled in $=\frac{11}{5}$
$=2\frac{1}{5}$
= 2 hour 12 minute
= 7 : 12 PM

62.(4) $\frac{d}{V+S}=4$
$d=4(V+2)$
$d=4V+8$
$\frac{d}{V-S}=5$
$d=5(V-2)$
$d=5V-10$
$5V-10=4V+8$
$V=18$
$d=4\times18+8$
$=72+8=80$ km

63.(1)
$$\begin{array}{ccccc}&&\frac{1}{3}&&\frac{2}{5}\\&&&\frac{5}{13}&\\\frac{2}{5}-\frac{5}{13}&&&&\frac{5}{13}-\frac{1}{3}\\=\frac{26-25}{65}&&&&=\frac{15-13}{39}\\=\frac{1}{65}&&&&=\frac{2}{39}\end{array}$$
$$\text{Ratio}=\frac{\frac{1}{65}}{\frac{2}{39}}=\frac{1}{65}\times\frac{39}{2}=\frac{3}{10}$$

64.(2)

Nilesh		Suresh
$40\times1+50\times1+60\times1+70$	:	85×2
220	:	170
22	:	17

Nilesh's share $=\frac{22}{39}\times195000$
$=110000$

65.(1) CP of tea sold Rs. 96 per kg
$=\frac{100}{80}\times96=120$
CP of tea sold at Rs. 140 per kg $=\frac{100}{125}\times140$
$=28\times4$
$=112$

$$\begin{array}{ccc}120&&112\\&x&\\x-112&&120-x\end{array}$$
$x-112=120-x$
$2x=232$
$x=116$

$$\text{Profit}=\frac{174-116}{116}\times100$$
$=50\%$

66.(3) Total age of Remaining girl
$=(1050)-25\times12-25\times16$
$=1050-25(28)$
$=350$
$$\text{Required age}=\frac{350}{25}=14\text{ yr}$$

67.(1) $\frac{12}{x}+x+\frac{12}{2x}+2x+\frac{12}{4x}=16$
$\frac{48+4x^2+24+8x^2+12}{4x}=16$
$12x^2+84=64x$
$3x^2-16x+21=0$
$3x^2-7x-9x+21=0$
$x(3x-7)-3(3x-7)=0$
$\therefore(x-3)(3x-7)=0$
$x=3,\frac{7}{3}$
So the time he rested at B could be 3 hrs

68.(1) $11\%\rightarrow5236$
$1\%\rightarrow476$
$\therefore(11+19+7)=37\%\rightarrow17612$ Rs.
$\Rightarrow17612\times12=$ Rs. 211344.

69.(3) $\text{Probability} = \frac{2c_1 \times 3c_2 + 2c_2 \times 3C_1}{5c_3}$

$= \frac{2\times3+1\times3}{10}$

$= \frac{9}{10}$

70.(4) $B = \frac{1}{\frac{1}{12}-\frac{1}{20}} = \frac{1}{\frac{5-3}{60}}$

$B = 30$ days

$\therefore$ Required No. of days $= \frac{1}{\frac{1}{20}+\frac{1}{60}}$

$= \frac{60}{4} = 15$ days

71.(3) $x = \pm\frac{1}{26}$

$y = \frac{1}{24}$

$\therefore x < y$

72.(5) $x = 3, \frac{-11}{2}$

$y = 3, -2$

$\therefore$ No relationship can be established

73.(1) x = – 6, y = –7, –8

Therefore, x > y.

74.(5) x = –3.5, 5, y = 6, 1

Therefore no relationship can be established.

75.(2) $x = \frac{8}{3}, \frac{5}{4}$

$y = -2, \frac{5}{4}$

$\therefore x \geq y$

76.(2) 7144 – 7132 = 12

77.(5) $\frac{22}{7} + \frac{22}{5} - \frac{13}{5} = ?$

$? = \frac{22}{7} + \frac{9}{5}$

$= \frac{110+63}{35} = \frac{173}{35}$

78.(2) 5287 – 254.804 = 5032.196

79.(1) 400 × 225 – 70000 = 90000 – 70000 = 20000

80.(1) $\frac{?}{100} \times 170 = 85 \Rightarrow ? = 50$