<u>IBPS PO PRELIMINARY GRAND TEST :</u> <u>IPP-170634 - HINTS AND SOLUTIONS</u>

ANSWER KEY

1	(2)	21	(3)	41	(1)	61	(2)	81	(5)	
2	(2)	22	(2)	42	(2)	62	(3)	82	(1)	Ì
3	(5)	23	(3)	43	(3)	63	(3)	83	(3)	Ì
4	(2)	24	(5)	44	(4)	64	(2)	84	(2)	Ì
5	(5)	25	(5)	45	(3)	65	(4)	85	(5)	Ĩ
6	(2)	26	(1)	46	(2)	66	(2)	86	(2)	Ĩ
7	(3)	27	(4)	47	(1)	67	(3)	87	(4)	Ì
8	(3)	28	(3)	48	(3)	68	(1)	88	(5)	Ì
9	(4)	29	(5)	49	(4)	69	(5)	89	(5)	
10	(1)	30	(5)	50	(1)	70	(5)	90	(3)	
11	(2)	31	(4)	51	(3)	71	(2)	91	(1)	Ì
12	(5)	32	(5)	52	(2)	72	(3)	92	(5)	_
13	(4)	33	(1)	53	(5)	73	(2)	93	(4)	
14	(4)	34	(5)	54	(5)	74	(1)	94	(4)	
15	(5)	35	(3)	55	(4)	75	(2)	95	(4)	
16	(3)	36	(3)	56	(1)	76	(4)	96	(1)	
17	(1)	37	(4)	57	(2)	77	(3)	97	(4)	
18	(3)	38	(4)	58	(5)	78	(1)	98	(4)	C
19	(1)	39	(2)	59	(4)	79	(3)	99	(2)	
20	(2)	40	(4)	60	(4)	80	(4)	100	(4)	Ī

- 1. (2) Refer to the first two sentences of the second paragraph.
- **2.** (2) Refer to the first half of the second paragraph.
- **3.** (5) Refer to the fourth sentences of the second paragraph.
- **4.** (2) the answer can be easily inferred.
- **5.** (5) Refer to the last sentence of the passage.
- **6.** (2) (B) is clearly not true in the context of the passage.
- 7. (3) Refer to the last two sentences of the second paragraph.
- (3) Refer to the second last and third last sentences of the last paragraph.
- **9.** (4) Only (B) is correct.
- **10.** (1) All three (A), (B) and (C) are true in the context of the passage.
- **21-25.** The proper sequence of the sentences to make a meaningful paragraph will be EFCABD.

- **31.** (4) Investment of Abhinav = $\top 6000$

1

Investment of Suni1 =
$$6000 \times \frac{100 - 50}{100} = 74200$$

Investment of Rita =
$$4200 \times \frac{100 + 25}{100} = 75250$$

Investment by all = $6000 + 4200 + 5250 = 715450$

$$\text{Ratio} = \frac{5250 \div 150}{15450 \div 150} = \frac{35}{103} = 35:103$$

32. (5) Principal
$$=\frac{1000 \times 100}{5 \times 4} = \text{Rs. } 5000$$

Compound interest

=

34.

35.

...

$$=10000 \left[\left(1 + \frac{5}{100} \right)^2 - 1 \right] = 10000 \times \frac{41}{400} = \text{Rs. } 1025$$

33. (1) Principal of square = 2 × 2(8 + 7) = 60 cm ⇒ 4a = 60 cm ∴ a = 15 cm Diameter of circle = 15 cm ∴ Radius = 7.5 cm Circumference of semi circle

$$\pi r + 2r = \frac{2}{7} \times 7.5 + 2 \times 7.5 = 38.57$$
 cm

(5) Present age of Radha = x yr According to question, x + 3 = 2 (x - 12) $\Rightarrow x + 3 = 2x - 24 \Rightarrow x = 27$ yr Present age of Raj : Present age of Radha = 4 : 9

Present age of Raj =
$$\frac{27}{9} \times 4 = 12$$
 yr

After 5 yr age of Raj = 12 + 5 = 17 yr (3) Total speed of car, bus and train = $72 \times 3 = 216$ km

Speed of car and train =
$$\frac{5+9}{5+9+4} \times 216 = 168$$
 km

Average
$$=\frac{168}{2}=84$$
 km

36. (3) Average speed of a tractor $=\frac{575}{223}=25$ km

The speed of a bus in an hour = $25 \times 2 = 50$ km

The speed of a car in an hour $= 50 \times \frac{9}{5} = 90$ km So, the distance covered by car in 4 h is $= 90 \times 4 = 360$ km

37. (4)
$$2000 = \frac{P \times 4 \times 5}{100} \Rightarrow P = Rs.10000$$

Now, CI = $10000 \left[\left(1 + \frac{4}{100} \right)^2 - 1 \right]$
= $10000 \times 0.0816 = Rs.816$

BACE
38. (4) Cost price =
$$\top 54000$$

-

Selling price =
$$54000 \times \frac{(100-8)}{100} = \top 49680$$

Now, the cost price of another bike = \top 49680 Selling price of another bike

$$=49680 \times \frac{110}{100} = \text{Rs. 54648}$$

Overall profit = 54648 - 54000 = T 648**39.** (2) 2m = 3W

$$\therefore 1M = \frac{3}{2}W$$
$$\therefore 1M + 1W = \frac{3}{2}W + 1W = \frac{5}{2}W$$

Number of days
$$=\frac{5\times4}{5}=\frac{24}{5}$$
 days

40. (4) Suppose adjacent angle of parallelogram be 2x and 3x. Then, according to theorem, $2x^{\circ} + 3x^{\circ} = 180^{\circ}$

$$\Rightarrow 5x^{\circ} = 180^{\circ} \Rightarrow x = \frac{180^{\circ}}{5} = 36^{\circ}$$

Smaller angle of quadrilateral = 36°

 \therefore Highest angle =4×36° = 144°

- Hence, required sum of angles = $144^{\circ} + 36^{\circ} = 180^{\circ}$.
- 41. (1) No. of units manufactured by Company F in the year 2008 = 16.7 Total no. of units manufactured by Company F in the year 2007 = 16.1

% increase =
$$\frac{16.7 - 16.1}{16.1} \times 100 = \frac{0.6}{16.1} \times 100$$

$$= 3.726 \cong 3.73$$

42. (2) Average no. of unit manufactured by Company D in 2004 and 2007

$$=\frac{(16.2+15.3)\times1000}{2}=\frac{31500}{2}=15750$$

43. (3) A and B together in 2009 : C and D together in 2009 $\Rightarrow (16.2 + 16.7) \times 1000 : (14.9 + 16.3) \times 1000$ $\Rightarrow 329 : 312.$

44. (4) % approx. =
$$\frac{14100}{92100} \times 100 = 15.3 \cong 15\%$$

45. Required percentage =
$$\frac{85000 \times 100}{390000} = 21.79\%$$

46. Average =
$$\frac{20+40+45+50+70+70}{6}$$
 thousand

$$=\frac{300}{6}$$
 thousand $=$ 50000

47. Percentage increase

$$= \frac{70-65}{65} \times 100 = \frac{5}{65} \times 100 = 7.69\%$$

48. In year 2004,

Percentage increase in college A = $\frac{40-20}{20} \times 100 = 100\%$

Percentage increase in college B =
$$\frac{60-30}{30} \times 100 = 100\%$$

Total male player = $\frac{11}{15} \times 600 = 440$

Total female player =
$$\frac{4}{15} \times 600 = 160$$

Sports	Male Player	Female Player		
Athletics	165	48		
Table Tennis	165	16		
Kho-Kho	99	24		
Lawn Tennis	11	72		

49. Required ratio =
$$72: 16 = 9: 2$$

50. Required difference = 99 - 72 = 27

- 51. Required ratio = 11:16
- 52. Required number = 48 + 24 = 72

53. Required number =
$$165 + 165 + 48 + 16 = 394$$

54. $36 \times 15 - 56 \times 784 \div 112 = ?$

$$\Rightarrow 540 - 56 \times 7 = ? \Rightarrow 540 - 392 = ?$$
$$\Rightarrow 148 = ?$$

55.
$$28.314 - 31.427 + 113.928 = ? + 29.114$$

 $\Rightarrow 28.314 - 31.427 + 113.928 - 29.114 = ?$
 $\Rightarrow 142.242 - 60.541 = ? \Rightarrow 81.701 = ?$

56.
$$540 \times \frac{75}{100} \times \frac{7}{5} \times \frac{2}{3} = ? \implies 378 = ?$$

57.
$$420 \times \frac{36}{100} - 350 \times \frac{56}{100} = ?-94$$

$$\Rightarrow 151.2 - 196 + 94 = ? \Rightarrow 49.2 = ?$$

58. (5)
$$644 - 17 \times 1 = 627$$

 $627 - 17 \times 2 = 593$
 $593 - 17 \times 4 = 525$
 $525 - 17 \times 8 = 389$
 $389 - 17 \times 16 = 117.$

59. (4)
$$7$$
 11 23 51 103 187
4 12 28 52 84
8 16 24 32

Grand Test : IPP-170634





IBPS PO (Prelims)

