**Quiz Date: 14th May 2020**

Directions (1-5): **Study the information carefully and answer the following questions.**
There are 2400 students in a school which has five classes i.e. sixth to tenth. Number of girls in seventh class is 50% more than number of boys in sixth class which is 50% of the total number of boys in eight class. Ratio between number of girls in sixth, eight and ninth class is 25 : 24 : 36. Total number of girls in sixth, eighth and ninth class is equal to number of girls in tenth class. Total number of boys in seventh class is 28% more than number of boys in ninth class. Number of boys in tenth class is 20 more than number of boys in ninth class. Total number of boys in eight class is 20% of total number of boys in all the classes together while total number of girls in seventh class is 15% of total number of girls in all the classes together.

Q1. Find the ratio between total number of boys in sixth, eight and tenth class together to the total number of girls in sixth, seventh and tenth class together?
(a) 5 : 6
(b) 6 : 7
(c) 3 : 4
(d) 8 : 7
(e) 7 : 8

Q2. Find average number of boys in seventh, eighth and ninth class together?
(a) 270
(b) 240
(c) 290
(d) 300
(e) 320

Q3. Girls in ninth class is what percent of total number of girls in school?
(a) 15%
(b) 12%
(c) 9%
(d) 18%
(e) 24%

Q4. Total number of students in tenth class is how much more than total number of students in seventh class?
(a)260
(b)280
(c)300
(d)320
(e)340

Q5. Number of girls in eight class is what percent less than number of boys in same class?
(a) 60%
(b) 50%

(c) 40%
(d) 30%
(e) 75%

Directions (6-10): **The following information given is about performance of Akhilesh in SBI PO mains exam. Read the information carefully and answer the following question.**

The exam consists of 200 marks, with 5 sections i.e. Reasoning, Quant, English, G.A. and Computers. Akhilesh attempted 22 questions in Reasoning with an accuracy of $77\frac{3}{11}\%.$ Each question of reasoning consists of 2 marks

Each section of the exam has negative marking of 25% of marks allotted to question for each wrong answer.

The total number of questions in reasoning is 30. Each question of computer consists of ½ marks and maximum marks in computer are 10. Total 16 questions are attempted by Akhilesh in computer with the ratio of right questions to wrong questions 3: 1.

The number of questions in English is equal to maximum marks of English. Akhilesh attempted 26 questions with 50% accuracy. The number of questions attempted in English is 65% of the total number of questions in English.

GA section consists of 40 questions with each question 0.75 marks. Akhilesh attempted 23 questions out of which 8 are wrong. Quant section contains 40 questions out of which Akhilesh attempted 35 questions and got 39.375 marks.

Q6. Another student Arunoday attempted 70% questions in the same exam, then find the number of questions left by Arunoday.
(a) 119
(b) 68
(c) 51
(d) 65
(e) None of these

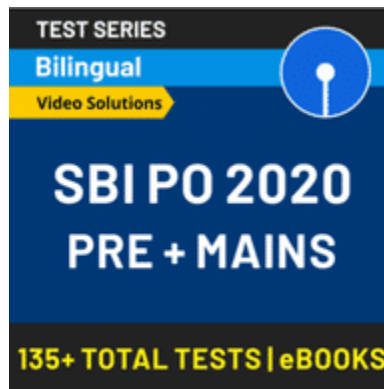Q7. Find the marks obtained by Akhilesh in GA.
(a) 8.75

(b) 9.25
(c) 9.75
(d) 10.75
(e) 12

Q8. The number of correct questions in reasoning is how much more than the number of incorrect questions in the same subject?
(a) 12
(b) 7
(c) 18
(d) 9
(e) 15



Q9. Find the total marks obtained by Akhilesh in the exam.
(a) 101
(b) 108.235
(c) 95.875
(d) 102
(e) 92.5

Q10. Find the total number of incorrect questions attempted by Akhilesh in the exam.
(a) 27
(b) 15
(c) 28
(d) 18
(e) 37

## Solutions

S (1-5):

Let, total number of boys in sixth class = x

Total number of girls in seventh class = 1.5x

Total number of boys in eight class = 2x

Total number of boys = $\frac{100}{20} \times 2x = 10x$

Total number of girls = $\frac{100}{15} \times 1.5x = 10x$

Total number of students

= 2400 = 10x + 10x = 20x

$$x = 120$$

Total number of boys in sixth class = x = 120

Total number of girls in seventh class = 1.5x = 180

Total number of boys in eight class = 2x = 240

Let, total number of boys in ninth class = z

Total number of boys in seventh class = 1.28z

Total number of boys in tenth class = z + 20

Total number of boys

= 120 + 1.28z + 240 + z + z + 20 = 10x = 1200

$$3.28z = 820$$

$$z = 250$$

Total number of boys in ninth class = 250

Total number of boys in seventh class = 1.28 × 250 = 320

Total number of boys in tenth class = 250 + 20 = 270

Let, total number of girls in tenth class = y

Total number of girls in sixth, eighth and ninth class = y

Total number of girls = 1200

**ATQ,**

1200 − 180 = y + y

y = 510

Total number of girls in sixth class = $\frac{510}{85} \times 25 = 150$

Total number of girls in eight class = $\frac{510}{85} \times 24 = 144$

Total number of girls in ninth class = $\frac{510}{85} \times 36 = 216$

|  | Sixth | Seventh | Eight | Ninth | Tenth | Total |
|---|---|---|---|---|---|---|
| Boys | 120 | 320 | 240 | 250 | 270 | 1200 |
| Girls | 150 | 180 | 144 | 216 | 510 | 1200 |
| Total | 270 | 500 | 384 | 466 | 780 | 2400 |

S1. Ans. (c)
Sol.
Required ratio = $\frac{120+240+270}{150+180+510} = \frac{630}{840} = \frac{3}{4}$
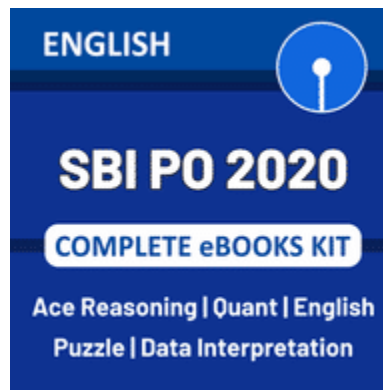
S2. Ans.(a)
Sol.
Required average = $\frac{320+240+250}{3} = 270$

S3. Ans.(d)
Sol.
Required % = $\frac{216}{1200} \times 100 = 18\%$

**ENGLISH**

**SBI PO 2020**

**COMPLETE eBOOKS KIT**

Ace Reasoning | Quant | English
Puzzle | Data Interpretation

S4. Ans.(b)
Sol.
Total number of students in seventh class
$= 320 + 180 = 500$
Total number of students in tenth class
$= 270 + 510 = 780$
Required Difference = $780 - 500 = 280$

S5. Ans.(c)
Sol.
Required % = $\frac{240-144}{240} \times 100 = \frac{96}{240} \times 100 = 40\%$

S (6-10):
Total right question in Reasoning = $22 \times \frac{850}{1100} = 17$
Wrong answers = $22 - 17 = 5$
Obtained marks in Reasoning= $17 \times 2 - 5 \times 0.5 = 31.5$

Total questions in Computer = $10 \times 2 = 20$
Right and wrong questions in computer are 12 and 4 respectively.

Obtained marks in Computer $= 12 \times 0.5 - 4 \times 0.5 \times 0.25 = 5.5$

Total number of questions in English $= \frac{26}{65} \times 100 = 40$
So, each question of English consists of 1 mark.
Obtained marks in English $= 13 \times 1 - 13 \times 0.25 = 9.75$

Maximum marks in GA $= 40 \times 0.75 = 30$
Marks obtained by him in GA $= 15 \times 0.75 - 8 \times 0.75 \times 0.25 = 11.25 - 1.5$
$= 9.75$

Maximum marks in Quant $= 200 - (60 + 10 + 40 + 30) = 60$
Let wrong questions in Quant be x.
ATQ
$1.5(35 - x) - 1.5 \times 0.25 \times x = 39.375$
$52.5 - 1.5x - 0.375x = 39.375$
$1.875x = 13.125$
$x = 7$
So, right and wrong question in Quant are 28 and 7 respectively.

|  | Total questions | Maximum marks | Attempt | Right question | Wrong question | Marks obtained |
|---|---|---|---|---|---|---|
| Reasoning | 30 | 60 | 22 | 17 | 5 | 31.5 |
| Computer | 20 | 10 | 16 | 12 | 4 | 5.5 |
| English | 40 | 40 | 26 | 13 | 13 | 9.75 |
| GA | 40 | 30 | 23 | 15 | 8 | 9.75 |
| Quant | 40 | 60 | 35 | 28 | 7 | 39.375 |

S6. Ans (c)
Sol.
Total number of questions = 170
No of questions left= 170 – 70%of 170 = 170-119=51

S7. Ans.(c)
Sol.
Obtained Marks in GA = 9.75

S8. Ans.(a)
Sol.
Required difference = 17 – 5 = 12

S9. Ans.(c)
Sol.
total marks obtained in exam by Akhilesh =31.5+5.5+9.75+9.75+39.375=95.875

S10. Ans.(e)

Sol.
Total number of incorrect questions = 5+4+13+8+7=37

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