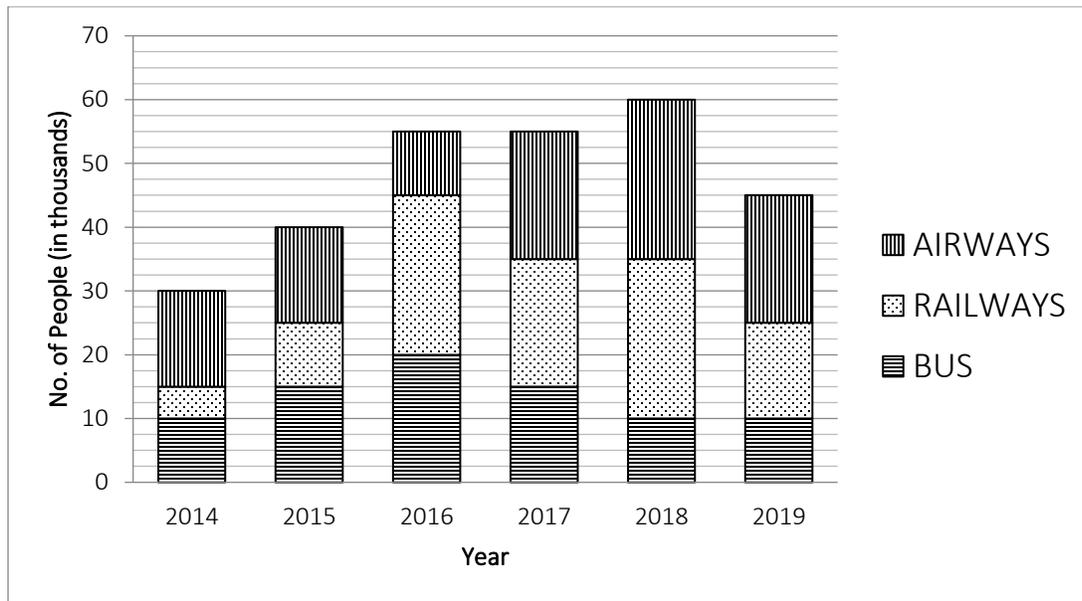**Quiz Date: 2nd May 2020**

Directions (1-5): Study the given graph carefully to answer the questions that follow:
HERE , THE GRAPH GIVEN BELOW SHOWS THE NUMBER OF PEOPLE USING VARIOUS MODES OF TRANSPORT IN DIFFERENT YEARS

Q1. If 50% of people in 2015 are transferred to the people travelling through different modes in 2017 and now ratio of male to female becomes 5 : 3 in 2017 then what % of females use different modes of transport in 2017 now? (Approximately)
(a) 32%
(b) 37%
(c) 40%
(d) 28%
(e) 42%

Q2. What is the difference between average number of people who use railways over all years and average of people who use Bus over all the years?
(a) $\frac{20,000}{6}$
(b) $\frac{25000}{6}$
(c) $\frac{10000}{6}$
(d) $\frac{15000}{6}$
(e) None of these

Q3. Total number of people who use all types of transport in year 2014, 2016 and 2017 are approximately what percent more or less than person using all modes of transport in the remaining year? (approximately)
(a) 8%
(b) 10%
(c) 12%
(d) 4%
(e) 6%

Q4. What is the ratio of persons who use railways over all years to the people who use Airways over all the years?
(a) 11 : 13
(b) 20 : 21
(c) 22 : 23
(d) 13 : 17
(e) None of these

Q5. If average number of females who use all modes of transport over all the years in 'N' then what is the average number of males who use all modes of transport over all the years?
(a) 48500 – 6N
(b) 42600 – N
(c) 47500 – N
(d) 49300 – N²
(e) None of these

Directions (6-10): Study the following table carefully and answer the questions given below. Table shows the number of students passed and failed in five different engineering branches, who were in their engineering final year over the years

Years	Classes									
	C.S.		IT		ELECTRICAL		MECHANICAL		CIVIL	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
2001	50	42	76	14	58	18	65	17	48	23
2002	60	19	95	22	71	30	75	12	76	28
2003	45	13	61	19	49	15	48	08	74	20

2004	58	21	75	25	80	28	60	11	84	14
2005	55	18	66	29	59	26	70	13	65	17
2006	68	31	54	38	77	34	82	21	55	14

Q6. Average of students failed in civil branch over all year is approximately what percent more or less than the average of students failed in electrical branch overall years?
(a) 23%
(b) 25%
(c) 21%
(d) 18%
(e) 26%

Q7. What is the ratio of students passed from all branches in year 2005 to the students passed in IT branch over all year?
(a) $\frac{53}{71}$
(b) $\frac{38}{53}$
(c) $\frac{45}{61}$
(d) $\frac{23}{40}$
(e) $\frac{45}{53}$

Q8. If in year 2000 students failed in CS branch is 150% of students failed in CS branch in 2005, then students failed in 2000 from CS branch are what percent of students passed from Electrical and civil branch together in year 2002? (approximately)
(a) 20%
(b) 16%
(c) 22%
(d) 18%
(e) 14%

Q9. Percentage of students passed from mechanical branch overall years is what percent more or less than percentage of students passed in electrical branch overall years. (approximately)
(a) 30%
(b) 25%
(c) 8%
(d) 14%
(e) None of these

Q10. Find the difference between total number of passed students from all branches in year 2006 and total passed students in IT branch overall years?
(a) 51
(b) 63
(c) 75

(d) 82
(e) 91

Solutions

S1. Ans.(b)
Sol.
50% of people in 2015 = 20,000
Now total people in 2017 = 55,000 + 20,000
= 75,000
Number of females in 2017 now = $\frac{3}{8}$ × 75,000
= 28125
Required percentage = $\frac{28125}{75000}$ × 100
= 37.5
∼ 37%

S2. Ans.(a)
Sol.
Average of people who use railways over all the years

$= \dfrac{5000 + 10,000 + 25,000 + 20,000 + 25,000 + 15,000}{6}$

$= \dfrac{1,00,000}{6}$

Average number of people who use Bus over all the years

$= \dfrac{10,000 + 15,000 + 20,000 + 15,000 + 10,000 + 10,000}{6}$

$= \dfrac{80,000}{6}$

Required difference = $\frac{20,000}{6}$

S3. Ans.(d)
Sol.
Total number of people who use all types of transport in year 2014, 2016 and 2017 together
= 30,000 + 55,000 + 55,000

= 1,40,000
Person using all modes in remaining years
= 40,000 + 60,000 + 45,000
= 1,45,000
Required percentage = $\frac{5000}{145000} \times 100$
= 3.44%
~ 4%

S4. Ans.(b)
Sol.
Person who use railways over all years
= 5000 + 10,000 + 25,000 + 20,000 + 25,000 + 15,000
= 1,00,000
Person who use airways over all years.
= 15,000 + 15,000 + 10,000 + 20,000 + 25,000 + 20,000
= 1,05,000
Required ratio = 20 : 21

S5. Ans.(c)
Sol.
Total number of females who use all modes of transport over all year
= 6N
Total people over all year
= 30,000 + 40,000 + 55,000 + 55,000 + 60,000 + 45,000
= 2,85,000
Required average = $\frac{285000 - 6N}{6}$
= 47500 – N

S6. Ans.(a)
Sol.
Students failed in civil branch over all year
= 23 + 28 + 20 + 14 + 17 + 14
= 116
Students failed in electrical branch
= 18 + 30 + 15 + 28 + 26 + 34
= 151
Required percentage = $\frac{\frac{151}{6} - \frac{116}{6}}{\frac{151}{6}} \times 100$

$= \frac{35}{151} \times 100$
= 23.17% ≈ 23%

S7. Ans.(c)
Sol.

Students passed from all branches in year 2005

= 55 + 66 + 59 + 70 + 65

= 315

Students passed in IT branch over all year

= 76 + 95 + 61 + 75 + 66 + 54

= 427

Require ratio = $\frac{315}{427}$

= $\frac{45}{61}$

S8. Ans.(d)

Sol.

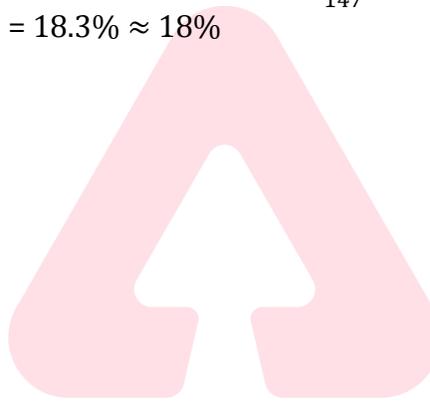In year 2000 students failed in CS branch = $\frac{150}{100} \times 18$

= 27

Students passed from electrical and civil branch together in year 2002 = 76 + 71

= 147

Required percentage = $\frac{27}{147} \times 100$

= 18.3% ≈ 18%

S9. Ans.(d)

Sol.

Students passed from mechanical branch over all years

= 65 + 75 + 48 + 60 + 70 + 82

= 400

Percentage of students passed from mechanical branch over all years

$$= \frac{400}{(65 + 17) + (75 + 12) + (48 + 08) + (60 + 11) + (70 + 13) + (82 + 21)} \times 160$$

$$= \frac{400}{400 + 17 + 12 + 08 + 11 + 13 + 21}$$

$= \frac{400}{482} \times 100$

≈ 83%

Students passed in electrical branch over all years

= 58 + 71 + 49 + 80 + 59 + 77

= 394

Percentage of students passed from electrical branch over all years

$$= \frac{394 \times 100}{394 + 18 + 30 + 15 + 28 + 26 + 34}$$

$$= \frac{394}{545} \times 100$$

$$\approx \frac{400}{550} \times 100$$

$$\approx 73\%$$

Required percentage $= \frac{83 - 73}{73} \times 100$

$$= \frac{1000}{73}$$

$= 13.6\% \approx 14\%$

S10. Ans.(e)
Sol.
Total passed students from all branches in 2006
= 68 + 54 + 77 + 82 + 55
= 336
Total passed students in IT branch over all years
= 76 + 95 + 61 + 75 + 66 + 54
= 427
Required difference = 427 – 336
= 91

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