
UR PERCENTILE

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Preparing for entrance exam for top Management Institute ?
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LESSON P1045
Minutes

Time Limit : 20

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Q1 to Q6 are based on following two tables.

The first table gives the criteria that is followed by 6 different institutes to call candidates for interview/GD. The second table provides details of the percentile score of 10 different candidates in three section of the test and in total

INSTITUTE	CRITERIA FOR CALLING FOR G.D/ INTERVIEW
Institute A	Above 99.5 in total and above 97.1 in each section.
Institute B	Above 99.2 in total and above 99.3 in Data Int.
Institute C	Above 97 in total and above 93 in Verbal and Quantitative
Institute D	Above 96 in all section.
Institute E	Above 90 in total and above 91 in each section.
Institute F	Above 98 in total and above 99 in Verbal

PERCENTILE SCORE										
	Ajay	Vijay	Tina	Mina	Sonu	Monu	Sanju	Manju	Billu	Tin
DATA INT.	99.09	99.36	99.12	97.86	99.72	94.67	96.84	98.36	98.86	9
QUANT.	99.34	98.05	84.58	89.64	96.67	89.99	97.63	97.63	75.65	9
VERBAL	89.74	97.79	99.83	99.01	97.64	99.44	96.54	94.21	99.19	9
OVERALL	99.57	99.68	98.74	98.78	99.74	98.05	98.99	99.09	98.28	9

Q1. Is there anybody who gets calls from all 6 institute ?

Q2. Is there anyone who does not get call from any institute ?

Q3. From how many institute does Vijay gets call from?

Q4. From how many institute does Sanju gets call from ?

Q5. Who all get calls from Institute C?

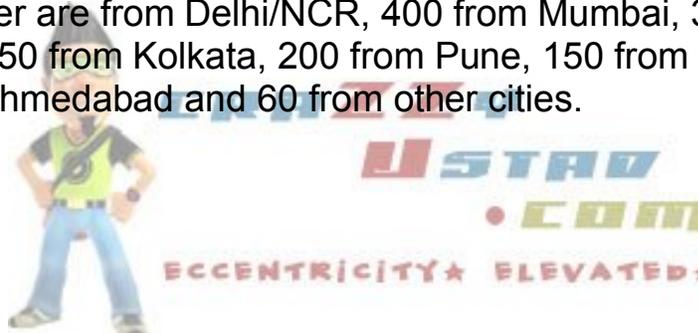
Q6. Who all get calls from institute F ?

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Q7 to 12 are based on following information and the graph below :

Following graph represents the % distribution of members in Urpercentile and their education Qualification.

500 member are from Delhi/NCR, 400 from Mumbai, 300 from Chennai, 250 from Kolkata, 200 from Pune, 150 from Bangalore, 100 from Ahmedabad and 60 from other cities.



QuickTime™ and a
GIF decompressor
are needed to see this picture.



Q7. From which city are the maximum number of MSc members ?

Q8. From which city are maximum number of BE/BTech members?

Q9. From which city are maximum number of MCom members ?

Q10. Which city accounts for the maximum number BBA in terms of percentage ?

Q11. Among Pune, Bangalore and Ahmedabad, which city has maximum number of BE/Btech members?

Q12. Among Pune, Bangalore and Ahmedabad , which city has maximum number of BBA members?

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Q13 to 17 are based on the following tables which represents 5 different options offered by a web hosting company.

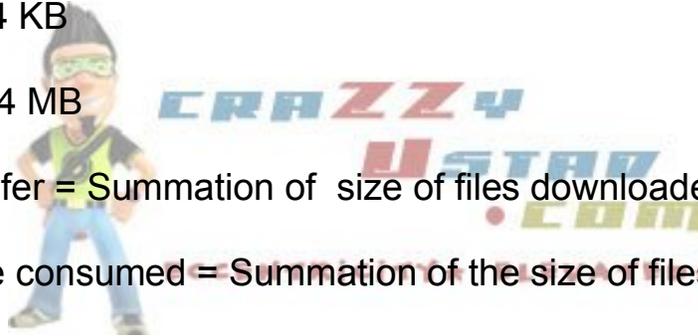
	Option 1	Option 2	Option 3	Option 4	Option 5
Monthly fee in Rs	600	750	850	1200	1500
SetUp fee-One time at joining (Rs)	1500	1000	500	200	0
No. of subdomains	10	15	18	25	35
No. Of Email Accounts	5	8	12	15	20
Data Transfer/month	20 GB	25 GB	30 GB	40 GB	50 GB
Disk Space	50 MB	75 MB	100 MB	125 MB	150 MB

1MB= 1024 KB

1 GB =1024 MB

Data Transfer = Summation of size of files downloaded or viewed by visitors.

Disk Space consumed = Summation of the size of files to be hosted.



Q13. A person wants to host a website for three months only. His total webpages are of 300 KB and he expects not more than 200 visitors per day. He don't need more than 2 subdomians or email accounts. Which option should he select to minimise his cost.

Q14. A person wants to host a website for one year. The number of subdomains, or email accounts he get or the allowable data transfer per month are of no importance to him. He wants to select the option which provided him the cheapest disk space per MB for one year. Which option should he select ?

Q15. If each visitor to a website hosted under option 5 downloads 2 MB of files, how many such visitor will be required in a month so that the maximum allowable data transfer / month is reached?

Q16. If an owner of website requires a disk space for 500 files of 128 KB each, which is the cheapest option (with least monthly rent) will he have to take ?

Q17. If the setup cost is waived which option offer the lowest cost per email account ?

Q18. If the set up cost is waived, which option offers the lowest cost per subdomain ?

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MATCH THE WORDS IN SET A WITH THEIR MEANINGS IN SET B

SET A: 19. Moribund, 20. Ominous, 21. Parsimonious, 22. Salubrious, 23. Vermicular, 24. Confer



USTAD
COM

SET B:

A. Return of something to the one to whom it belongs.

B. Beneficial to health.

C. Nearly dead or to become obsolete.

D. Pertaining to a worm

E. Threatening.

F. Excessively frugal

G. To regret.

H. Reduce the strength .

I. Clearly visible.

J. Friendly, Good nature.

K. Tendency to walk, talk or eat very slow.

L. To bestow.

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ANSWERS AND SOLUTIONS :

Following table provides the answers of Q1 to Q6.

CALLS FOR INTERVIEW /GD										
	Ajay	Vijay	Tina	Mina	Sonu	Monu	Sanju	Manju	Billu	Tinku
Institute A	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
Institute B	NO	YES	NO	NO	YES	NO	NO	NO	NO	NO
Institute C	NO	YES	NO	NO	YES	NO	YES	YES	NO	YES
Institute D	NO	YES	NO	NO	YES	NO	YES	NO	NO	NO
Institute E	NO	YES	NO	NO	YES	NO	YES	YES	NO	YES
Institute F	NO	NO	YES	YES	NO	YES	NO	NO	YES	NO
TOTAL CALLS	0	5	1	1	4	1	3	2	1	

Ans1. Nobody got calls from all 6 institute.

Ans2. Ajay does not get call from any institute.

Ans3. Vijay gets call from 5 institute.

Ans4. Sanju gets call from 3 institute.

Ans5. Institute C calls Vijay, Sonu, Sanju, manju and Tinku.

Ans6. Institute F calls Tina, Mina, Monu and Billu.

Ans7. MSc's from Delhi = $20 \times 500 / 100 = 100$. MSc's from Mumbai = $19 \times 400 / 100 = 76$. MSc's from Chennai = $20 \times 300 / 100 = 60$. "Other" cities have total of 60 candidates so these cities cannot have more than 100 MSc. The rest may be ignored on visual inspection. So maximum number of Msc's are from Delhi.

Ans8. Maximum number of BE/BTech are from Mumbai, 100 in number.

Ans9. Maximum number of Mcom are from Chennai, 75 in number.

Ans10. On visual inspection, Kolkata has maximum number BBA in terms of percentage.

Ans11. Among the three, Pune has maximum number of BE/Btech, 55 in number.

Ans 12. Among the three, Bangalore has maximum number of BBA, 25 in number.

Ans13. 300 KB is approximately equal to $300/1024 = 0.3$ MB. All the options have more than 300 KB of Disk Space so he need not worry about Disk Space. Now, at maximum download by each visitor the data transfer will be : $0.3*200*31= 1,860$ MB which is less than 2 GB . All the option have transfer rate more than 2 GB, so he need not worry about transfer rate also. For Three months the cost for the different options will be $1,500+3*600= 3,300$ for Option 1, $1000+ 3*750= 3,250$ for Option 2, $500+ 850*3= 3,050$ for option 3, $200+ 3*1200= 3,800$ for option 4 and 4,500 for option 5. So the least cost will be at option 3 which is 3,050.

ANS 14.

	Option 1	Option 2	Option 3	Option 4	Option 5
Monthly fee	600	750	850	1200	1500
SetUp fee	1,500	1,000	500	200	0
Cost for 12 month= 12*Monthly Fee+SetUp fee	8,700	10,000	10,700	14,600	18,000
Disk Space he gets	50	75	100	125	150
Cost/disk Space (12 months)	174	133.333	107	116.8	120

So the cheapest disk space per MB is provided by option 3.

Ans15. Under Option 5 the data transfer limit is 50 GB. $50 \text{ GB} = 50*1024 \text{ MB}$.

So if each visitor download 2 MB it will need $50*1024/2$ visitors to reach the maximum limit

Or $25*1024= 25,600$ visitors will be required to reach the maximum limit of 50 GB.

Ans 16. $500 *128 \text{ KB}= 64,000 \text{ MB}$

$64,000/1,024 = 62.5 \text{ GB}$. So he need to take Option 2 as Option offers 50 GB only.

Ans. 17. Option 5 is the most cost effective $1500/35= \text{Rs. } 42.86$ per domain.

Ans 18. Option 3 is the most cost effective , $850/12= 70.83$

Ans 19=C, Ans 20= E, Ans 21= F, Ans 22= B, Ans 23= D, Ans 24= L

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