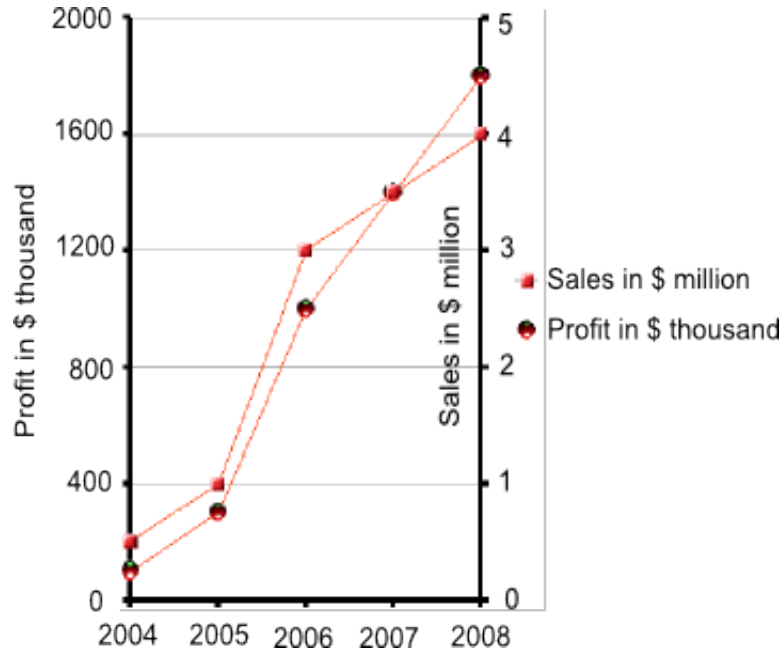Medium Level DI Set

I) **Answer the next three questions based on the data given below.**

Internet usage growth statistics

Country	Population	Internet users in 2000	Internet users today
Bangladesh	154,037,902	100,000	500,000
Bhutan	682,321	500	40,000
China	1,330,044,605	22,500,000	298,000,000
India	1,147,995,898	5,000,000	81,000,000
Indonesia	237,512,355	2,000,000	25,000,000
Japan	127,288,419	47,080,000	94,000,000
Malaysia	25,274,133	3,700,000	15,868,000
Myanmar	47,758,181	1,000	40,000
Nepal	28,196,960	50,000	397,500
Pakistan	172,800,051	133,900	17,500,000
Philippines	96,061,683	2,000,000	20,650,000
Singapore	4,608,167	1,200,000	3,104,900
Sri Lanka	21,128,773	121,500	771,700

1. Which country has seen the maximum percentage growth in internet usage when todays usage is compared to usage in 2000.
A. Pakistan
B. Bhutan
C. Myanmar
D. China
E. India

2. Which country has the least penetration (users as a percentage of population) as of today.
A. Bangaladesh
B. Nepal
C. Myanmar
D. Bhutan
E. Sri Lanka

3. What is the population of the country which has the median value of Internet users today.
A. 21,128,773
B. 96,061,683
C. 4,608,167
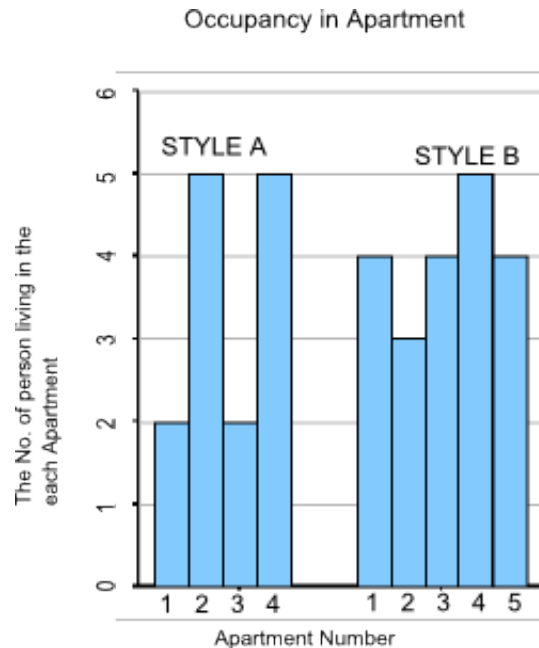D. 172,800,051
E. 25,274,133

II)

The pair of line graphs shown above represent the annual figures for sales and profits of Company ABC in successive years from 2004. On the basis of the data they provide answer questions 1, 2 and 3 below. Companies' profit is expressed as a percentage of Sales.

1   What was the percentage profit on sales, of Company ABC, in the year which marked the slowing down in sales compared to profit ?

   A 20   B 25   C 33   D 35   E 40

2. What was the average annual profit of Company ABC in the overall period under review ?

   A $ 4.7 million   B $ 0.92 million C $ 92,000   D 92,000   E $ 470,000

3   WOTF is the closest to the % of profit of Company ABC in year 2008 ?

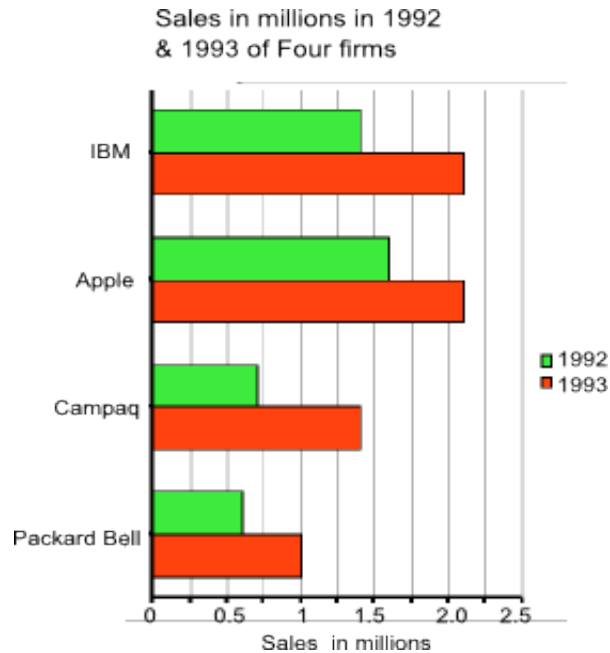   A 22   B 23   C 45   D $ 1.8 million   E $ 4 million

In the two bar charts below are shown some details regarding different styles of apartments at two different locations. Answer questions 1 to 3 following on the basis of the information.
Note : Occupancy of an apartment means the number of persons living in that apartment.

Occupancy in Apartment

1 By how much per cent is the occupancy in # 5 apartment in Style B less
   or more than that in # 4 in Style B ?

   A 25% more   B 1/ 4 % less   C 20 % less   D 1/5 % less   E 25% less

2 How many times the occupancy of apartment 3 in Style A is that of apartment 2 in style B ?

   A 1.5   B 4/3   C 2/3   D .67   E 1

3 Occupancy increases in direct proportion to the number of rooms in an apartment.
   On this basis, if in # 5 apartment in Style B 25% more number of people could live
   and in # 2 apartment in Style A 20% fewer than as shown, what would be the
   change in the combined average occupancy in the two ?

   A 2 more   B 20% less C a quarter more D none E none of these

IV)   (on computer sales)

Sales in millions in 1992
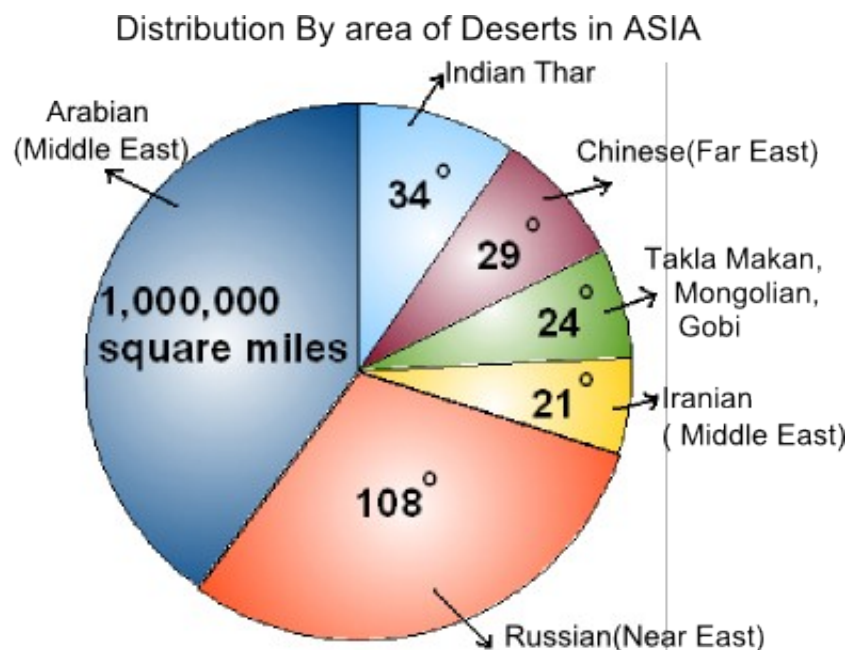& 1993 of Four firms

The questions following refer to the Bar Charts comparing the sales of PC's of four companies in 1992 and 1993 and need to be answered with the help of the information provided there.

1   Taking the sales for two new companies X and Y (not shown in the chart), in 1993, the sales of Apple, Compaq, Co. X and Co. Y are in the ratio of 6:4:2:1. How many more PC's did company X make than company Y, sales being 80% and 90% of production in companies X and Y respectively ?

   A 1.8 million   B 1,2 million   C 0.35 million   D 486,112   E 201,388

2   If IBM had amalgamated with Packard Bell in 1992, how many fewer million PC's would be their combined sale in 1992 than the combined sale of Compaq and Apple in 1993 ?

   A 2.225   B 1.5   C 1.1   D 0.9   E 0.75

3   If the total sales of the four companies shown in 1994 were as many more than their total sales in 1993 than the total 1993 sales were in excess of 1992 sales, then what would be the average sales of PC's of all four companies in 1994 ?

   A 3   B 2.6   C 2.4   D 2.3   E 2.2

4   WOTF statements is corroborated by the given data ?

   A The percent increase in sale of PC's from 1992 to 1993 was closest to the
        % increase in the sale of Compaq PC's in the same period.
   B IBM achieved the maximum % improvement in sale among the four companies
   C Sale of IBM in 1992 equaled the combined sales of Compaq and Packard
        Bell in 1992 in number.

D Apple had the least increase in number of PC's sold between 1992 and 1993.
E Compaq and Packard Bell have achieved the same % increase in sale
   from 1992 to 1993.

V) For answering questions 1 to 3 following, use the information provided by the table and the pie-chart, which show the continents and locations of deserts on the earth, together with their names and areas.

THE FIVE CONTINENTS AND THEIR DESERTS
(There are no deserts in the two continents of Antarctic and Europe)

Continetal Region	Location	Name	Area in square miles billions	thousands
Africa	Northern Africa	Sahara	3.5	-
	Southern Africa	Kalahari	-	220
Asia	Near, Middle, South- East and Far East		2.5	-
Australasia			1.3	-
North America			-	500
South America	Argentine	Patagonian	-	260
	Chile & Peru	Atacama	-	140
Total area of deserts			7.3.billion + 1120 thousand = 8,412,000 square miles	

Distribution By area of Deserts in ASIA

Indian Thar

Arabian
(Middle East)

Chinese(Far East)

34°

29°

1,000,000
square miles

24°

Takla Makan,
Mongolian,
Gobi

21°

Iranian
(Middle East)

108°

Russian(Near East)

1   Nearly 70% of the earth's total area is taken up by oceans, seas, lakes and other water souces. Given thatv about 14.6 % of the earth's land area is desert, WOTF is closest to the measure of the total surface area of the earth, in million square miles ?

A 117,880   B 176.640   C 197.272   D 219,782   E 245,000

2 According to the information, the combined area of the Indian and Iranian deserts is closest to WOTF percentages of the total area of North American deserts ?

A 85   B 77   C 63   D 38.5   E 27

3   WOTF are borne out by the information in the table and chart ?

 I The areas of the two South American deserts are in the ratio 13 : 7
 II African deserts occupy nearly 80,000 square miles more of the earth's area
    than Asian and Australasian deserts together ?
 III The deserts of China and Mongolia occupy more than a third of the earth's land area.
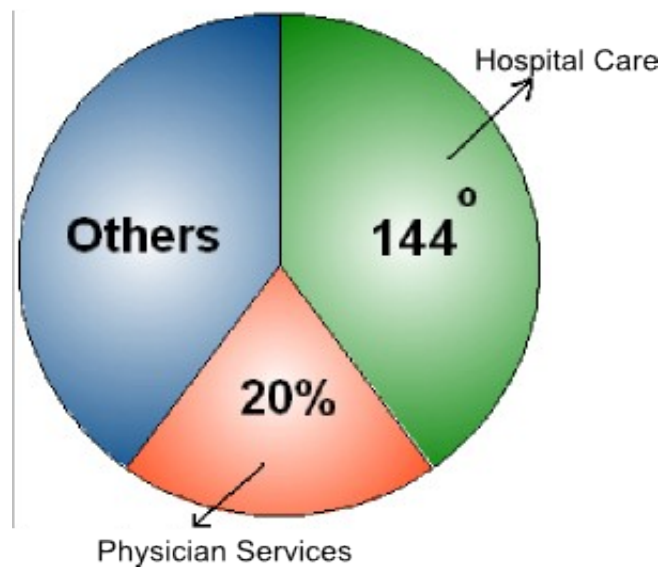
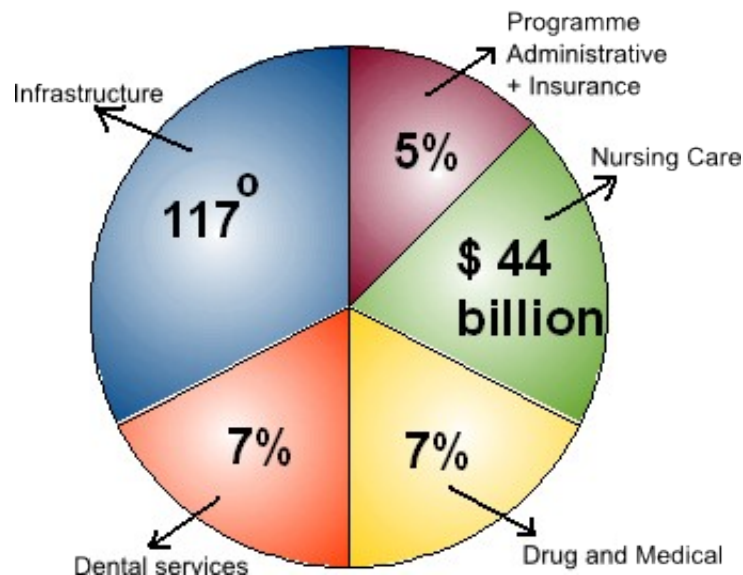A I & II only   B II & III only   C I only   D   II only   E I & III only

VI)

HOW HEALTH CARE COSTS ARE DISTRIBUTED

Total Health Care Cost (Bar Chart 1)

Others

144°

Hospital Care

20%

Physician Services

"Other" Costs

Infrastructure

Programme
Administrative
+ Insurance

5%

Nursing Care

117°

$ 44
billion

7%

7%
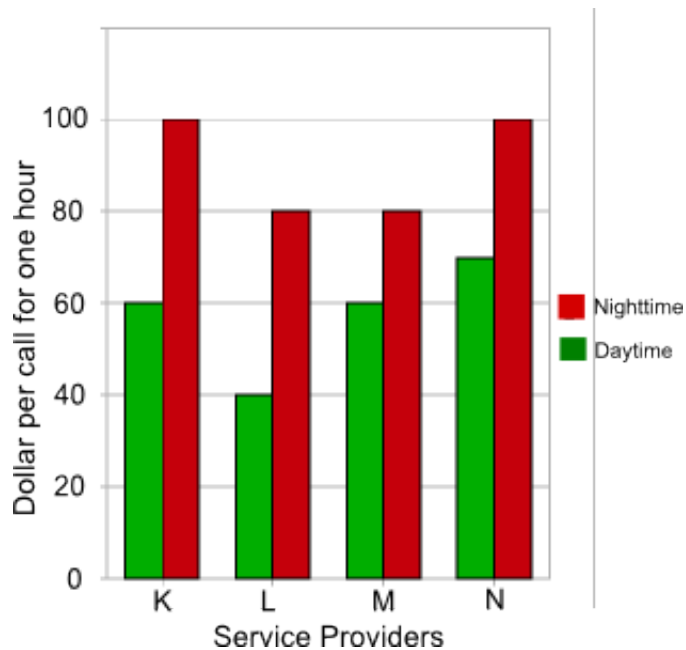
Dental services

Drug and Medical

The average amounts of money spent by the state every year are shown in the two pie charts. The one on left gives the break-up among three major classes of expenditure, and the one on right the break-up of expenditures under "others."

1   What amount of the total health care expenses are due to Infrastructure ?

   A $ 71.5   B $ 715,000   C $ 7.15 million   D $ 8.132 million   E $ 71.5 thousand

2 Infrastructure expenditure is made up of three major items, Electricity,
   Maintenance and Transportation, in the ratio 2:3:4. By how many million dollars
   does Transportation expenditure exceed Maintenance ?

   A 640,000   B   80,000   C 32,000   D 8,000   E 800

3 According to a study it is possible to cut down expenses on Hospital care.
   How much % of Hospital care expenses could effect a change of 20 % in the
   Dental service care ?

   A 5.6   B   4.2   C 3.5   D 2.8   E 1.4

VII)
Answer questions 1 to 3 following, using the information provided in the bar charts.
relating to the call charges of service providers K, L. M and N for day and night rates.

Daytime (6 AM to 9 PM)
Night time (9 PM to 6 AM)

1 Which provider offers least difference between day and night rates ?

   A K
   B L
   C M
   D N
   E both K and M

2   How much more will a three-hour call, lasting from 5 AM and serviced by
    provider K, cost than a two-hour call till 10 PM serviced by provider L ?

    A $ 120   B $ 100   C $ 80 D $ 60 E $ 40

3   If Tom, having to make a 90-minute call from 8.30 PM, has a choice of all four
    providers, and chose them for the most economical combination, what will the
    call cost Tom totally ?

    A $120   B $ 110   C $ 100   D $ 89   E 80