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Test Booklet No. 822809

Booklet Series: A
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- 1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO.
- 2. Fill in the information required in the answer sheet. Your test may not be evaluated if the required details are not entered on the answer sheet.
- 3. Do not seek clarification on any item in the test booklet from anyone including the test invigilator or the centre supervisor. Use your best judgement.
- 4. This booklet consists of three sections A, B and C with 43, 34 and 24 questions respectively, i.e., a total of 101 questions. If there is a problem with your test booklet, inform the invigilator/ supervisor immediately. You will be provided with a replacement.
- 5. Questions in each section have been allotted different mark(s), which are indicated on the right hand side of each question. You are required to answer questions from all sections and expected to maximize scores in each section.
- 6. Each question has five alternatives. Answer each question by darkening the appropriate alternative letter against the question number on the answer sheet. For example, if your answer to question number 1 is 'B', darken fully the circle 'B' against question 1.
- 7. All answers are to be marked only on the OMR answer sheet. Use the margin in the test booklet for rough work. No other piece of paper is permitted to be used for rough work.
- 8. Use only HB pencil for marking answers on the OMR answer sheet.
- 9. NEGATIVE MARKS (one fourth of the mark(s) allotted for each question) may be deducted for answering incorrectly any particular question.
- 10. Failure to follow instructions and examination norms will lead to disqualification.

To open the test booklet, insert a pencil beneath this page and tear along the right side of the test booklet as indicated by the arrow at the bottom of the page.

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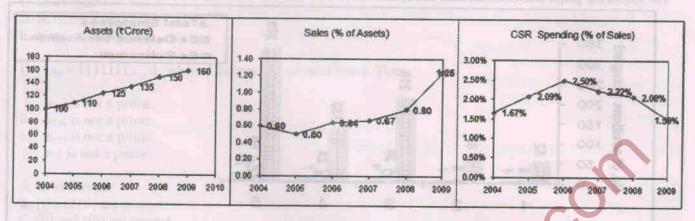
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Section A - Data Interpretation and Quantitative Ability

Answer question nos. 1 to 4 based on the following information.

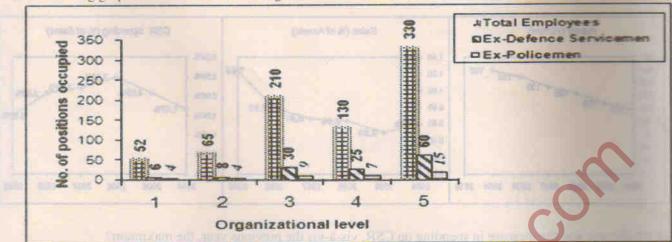
The following graphs give annual data of Assets. Sales (as percentage of Assets) and Spending on Corporate Social Responsibility (CSR) (as percentage of Sales), of a company for the period 2004 - 2009.



- In which year was the increase in spending on CSR, vis-à-vis the previous year, the maximum?
- A. 2005
- B. 2006
- C. 2007
- D. 2008
- E. 2009
- Of the years indicated below, in which year was the ratio of CSR/ Assets the maximum?
 - A. 2004
 - B. 2005
 - C. 2006
 - D. 2007
 - E. 2008
- What was the maximum value of spending on CSR activities in the period 2004-2009?
 - A. ₹ 0.5 Crore
 - B. ₹ 1.0 Crore
 - C. ₹2.0 Crore
 - D. ₹3.0 Crore
 - E. ₹4.0 Crore
- In which year, did the spending on CSR (measured in ₹) decline, as compared to previous year?
 - A. 2006
 - B. 2007
 - C. 2008
 - D. 2009
 - E. None of the above

Answer question nos. 5 to 7 based on the following information.

Five years ago Maxam Glass Co. had estimated its start requirements in the five levels in their organization as: Level-1: 55; Level-2: 65; Level-3: 225; Level-4: 255 & Level-5: 300. Over the years the company had recruited people based on ad-hoc requirements, in the process also selecting ex-defence service men and ex-solicemen. The following graph shows actual staff strength at various levels as on date.



- 5 The level in which the Ex-Defence Servicemen are highest in percentage terms is:
 - A. 1
 - B. 2
 - C. 3
 - D. 4
- E. 5 (curotinan ad) unest, GPC) to unum
- If the company decides to abolish all vacant posts at all levels, which level would incur the highest reduction in percentage terms?
 - A.I
 - B.2
 - C.3
 - D.4
 - E. 5
- 7 Among all levels, which level has the lowest representation of Ex-policemen?
 - A.I
 - B.2
 - C.3
 - D.4
 - E. 5
- In a locality, there are ten houses in a row. On a particular night a thief planned to steal from three houses of the locality. In how many ways can he plan such that no two of them are next to each other?
 - A. 56
 - B. 73
 - C. 80
 - D. 120

If $x = (9 + 4\sqrt{5})^{48} = [x] + f$, where [x] is defined as integral part of x and f is a fraction, then x(1-f) equals-

5

- A. 1
- B. Less than 1
- C. More than 1
- D. Between 1 and 2
- E. None of the above
- Let $a_n = 11111111....1$, where 1 occurs n number of times. Then,

5

- i. a₇₄₁ is not a prime.
- ii. a₅₃₄ is not a prime.
- iii. a₁₂₃ is not a prime.
- iv. a77 is not a prime.
- A. (i) is correct.
- B. (i) and (ii) are correct.
- C. (ii) and (iii) are correct,
- D. All of them are correct.
- E. None of them is correct.

Answer question nos. 11 to 12 based on the following information

Individual & HUF below age of 65 years	Come-Tax Rates for Financial Year Women below age of 65 years	Tax Rates
Income up to ₹1,60,000/-	Income up to ₹1,90,000/-	Nil Nil
₹1,60,001 to ₹3,00,000/-	₹1,90,001 to ₹3,00,000/-	10%
₹3, 00,001 to ₹5, 00,000/-	₹3,00,001 to ₹5,00,000/-	20%
Above ₹5, 00,001	Above ₹5, 00,001	30%

Total income tax payable is obtained by adding two additional surcharges on calculated income tax.

- Education Cess: An additional surcharge called 'Education Cess' is levied at the rate of 2% on the amount of income tax.
- Secondary and Higher Education Cess. An additional surcharge called 'Secondary and Higher Education Cess' is levied at the rate of 1% on the amount of income tax.
- Sangeeta is a young working lady. Towards the end of the financial year 2009-10, she found her total annual income to be ₹ 3, 37, 425/-. What % of her income is payable as income tax?
 - A. 5.64
 - B. 6.82
 - C. 7.38
 - D. 8.10
 - E. None of the above
- Mr. Madan observed his tax deduction at source, done by his employer, as ₹ 3, 17, 910/-. What was his total income (in ₹) if he neither has to pay any additional tax, nor is eligible for any refund?

A. 13, 48, 835/-

B. 14, 45, 522/-

C. 14, 47, 169/-

D. 15, 70, 718/-

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E. None of the above

A straight line through point P of a triangle PQR intersects the side QR at the point S and the circumcircle of the 3 13 triangle PQR at the point T. If S is not the centre of the circumcircle, then which of the following is true?

A. $(1/PS) + (1/ST) < 2/\sqrt{(OS)(OR)}$

B. (1/PS) + (1/ST) < 4/QR

C. $(1/PS) + (1/ST) > 1\sqrt{(QS)(QR)}$

D. (1/PS) + (1/ST) > 4/QR

E. None of the above

What is the maximum possible value of $(21 \sin X + 72 \cos X)$?

A. 21

B. 57

C. 63

D. 75

E. None of the above

The scheduling officer for a local police department is trying to schedule additional patrol units in each of two 2 neighbourhoods - southern and northern. She knows that on any given day, the probabilities of major crimes and minor crimes being committed in the northern neighbourhood were 0.418 and 0.612, respectively, and that the corresponding probabilities in the southern neighbourhood were 0.355 and 0.520. Assuming that all crime occur independent of each other and likewise that crime in the two neighbourhoods are independent of each other, what is the probability that no crime of either type is committed in either neighbourhood on any given day?

A. 0.069

B. 0.225

C. 0.690

D. 0.775

E. None of the above

Answer question nos. 16 to 17 based on the following information

A man standing on a boat south of a light house observes his shadow to be 24 meters long, as measured at the sea level. On sailing 300 meters eastwards, he finds his shadow as 30 meters long, measured in a similar manner. The height of the man is 6 meters above sea level.

16 The height of the light house above the sea level is:

A. 90 meters

B. 94 meters

C. 96 meters

D. 100 meters

E. 106 meters

17 What is the horizontal distance of the man from the light house in the second position?

A. 300 meters

B. 400 meters

C. 500 meters

D. 600 meters					
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	10.3	131	10.2	me	1-1-1

E. None of the above

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A 25 ft long ladder is placed against the wall with its base 7 ft from the wall. The base of the ladder is drawn out so that the top comes down by half the distance that the base is drawn out. This distance is in the range:

2

- A. (2, 7)
- B. (5,8)
- C. (9,10)
- D. (3.7)
- E. None of the above.
- The domain of the function $f(x) = log_7 \{ log_3 (log_5 (20x-x^2-91)) \}$ is:

3

- A. (7, 13)
- B. (8,12)
- C. (7, 12)
- D. (12,13)
- E. None of the above
- There are four machines in a factory. At exactly 8 pm, when the mechanic is about to leave the factory, he is informed that two of the four machines are not working properly. The mechanic is in a hurry, and decides that he will identify the two faulty machines before going home, and repair them next morning. It takes him twenty minutes to walk to the bus stop. The last bus leaves at 8:32 pm. If it takes six minutes to identify whether a machine is defective or not, and if he decides to check the machines at random, what is the probability that the mechanic will be able to catch the last bus?
 - A. 0
 - B. 1/6
 - C. 1/4
 - D. 1/3
 - E. I
- 21 The football league of a certain country is played according to the following rules:

3

- Each team plays exactly one game against each of the other teams.
- The winning team of each game is awarded 1 point and the losing team gets 0 point.
- If a match ends in a draw, both the teams get ½ point.

After the league was over, the teams were ranked according to the points that they earned at the end of the tournament. Analysis of the points table revealed the following:

- Exactly half of the points earned by each team were earned in games against the ten teams which finished
 at the bottom of the table.
- Each of the bottom ten teams earned half of their total points against the other nine teams in the bottom ten.

How many teams participated in the league?

- A. 16
- B. 18
- C. 19
- D. 25
- E. 30

A. 36 V3

B. 54√3

C. 72√3

D. 90√3

E. None of the above

Answer question nos. 23 - 24 based on the following information.

From a group of 545 contenders, a party has to select a leader. Even after holding a series of meetings, the politicians and the general body failed to reach a consensus. It was then proposed that all 545 contenders be given a number from 1 to 545. Then they will be asked to stand on a podium in a circular arrangement, and counting would start from the contender numbered 1. The counting would be done in a clockwise fashion. The rule is that every alternate contender would be asked to step down as the counting continued, with the circle getting smaller and smaller, till only one person remains standing. Therefore the first person to be eliminated would be the contender numbered 2.

Which position should a contender choose if he has to be the leader?

B. 67

C. 195

D. 323 E. 451

One of the contending politicians, Mr. Chanaya, was quite proficient in calculations and could correctly figure out the exact position. He was the last person remaining in the circle. Sensing foul play the politicians decided to repeat the game. However, this time, instead of removing every alternate person, they agreed on removing every 24 300th person from the circle. All other rules were kept intact. Mr. Chanaya did some quick calculations and found that for a group of 542 people the right position to become a leader would be 437. What is the right position for the whole group of 545 as per the modified rule?

B. 194

C. 249

D. 437

E. 543

Little Pika who is five and half years old has just learnt addition. However, he does not know how to carry. For example, he can add 14 and 5, but he does not know how to add 14 and 7. How many pairs of consecutive integers between 1000 and 2000 (both 1000 and 2000 included) can Little Pika add?

A. 150

B. 155

C. 156

D. 258

E. None of the above

Each candidate must use only the direct roads between two cities for going from one city to another.

The candidate must return to his own city at the end of the campaign.

No direct road between two cities would be used by more than one candidate.

The maximum	possible	number	of	candidates	is
-------------	----------	--------	----	------------	----

A. 5

B. 6 all mayer and bestellight 2 hard 2 for 15 month contact at all may are about

C. 7

D. 8

E. 9

27 The micromanometer in a certain factory can measure the pressure inside the gas chamber from 1 unit to 999999 units. Lately this instrument has not been working properly. The problem with the instrument is that it always skips the digit 5 and moves directly from 4 to 6. What is the actual pressure inside the gas chamber if the micromanometer displays 003016?

A. 2201

B. 2202

C. 2600

D. 2960

E. None of the above options

28 Consider a square ABCD of side 60 cm. It contains arcs BD and AC drawn with centres at A and D respectively.
A circle is drawn such that it is tangent to side AB, and the arcs BD and AC. What is the radius of the circle?

A. 9 cm

B. 10 cm

C. 12 cm

D. 15 cm

E. None of the above

There are 240 second year students in a B-School. The Finance area offers 3 electives in the second year. These are Financial Derivatives, Behavioural Finance, and Security Analysis. Four students have taken all the three electives, and 48 students have taken Financial Derivatives. There are twice as many students who study Financial Derivatives and Security Analysis but not Behavioural Finance, as those who study both Financial Derivatives and Behavioural Finance but not Security Analysis, and 4 times as many who study all the three. 124 students study Security Analysis. There are 59 students who could not muster courage to take up any of these subjects. The group of students who study both Financial Derivatives and Security Analysis but not Behavioural Finance, is exactly the same as the group made up of students who study both Behavioural Finance and Security Analysis. How many students study Behavioural Finance only?

A. 29

B. 30

C. 32

D. 35

E. None of the above options

30 In a plane rectangular coordinate system, points L, M, N and O are represented by the coordinates (-5, 0), (1, -2)

www.sakshieducation.comme plane. The minimum value of PL + PM + PN + PO is A. $1 + \sqrt{37}$ B. $5\sqrt{2} + 2\sqrt{10}$ C. $\sqrt{41} + \sqrt{37}$ D. $\sqrt{41} + 1$ E. None of the above 31 In a bank the account numbers are all 8 digit numbers, and they all start with the digit 2. So, an account number 3 can be represented as $2x_1x_2x_3x_4x_5x_6x_7$. An account number is considered to be a 'magic' number if $x_1x_2x_3$ is exactly the same as $x_4x_5x_6$ or $x_5x_6x_7$ or both. x_i can take values from 0 to 9, but 2 followed by seven 0s is not a valid account number. What is the maximum possible number of customers having a 'magic' account number? B. 19980 C. 19989 D. 19999 E. 19990 In a list of 7 integers, one integer, denoted as x is unknown. The other six integers are 20, 4, 10, 4, 8, and 4. If the mean, median, and mode of these seven integers are arranged in increasing order, they form an arithmetic progression. The sum of all possible values of x is A. 26 B. 32 C. 34 D. 38 E. 40 Prof. Bee noticed something peculiar while entering the quiz marks of his five students into a spreadsheet. The 3 spreadsheet was programmed to calculate the average after each score was entered. Prof. Bee entered the marks in a random order and noticed that after each mark was entered, the average was always an integer. In ascending order, the marks of the students were 71, 76, 80, 82 and 91. What were the fourth and fifth marks that Prof. Bee entered? A. 71 and 82 B. 71 and 76 C. 71 and 80 D. 76 and 80 E. 91 and 80 34 Rakhal a looking for a field where he can graze his cow. He finds a local farmer, Gopal, who agrees to rent his field to Rakhal for ₹ 1000 a year. Rakhal finds a post in the field and ties his cow to the post with a 25 feet rope. After some months, Gopal tells Rakhal that he will build a shed with four walls on the field with the post as one of the corner posts. The shed would be 15 feet by 10 feet. Rakhal agrees but he realizes that this arrangement would reduce the available area for grazing. What should be the modified rent to compensate for this loss of grazing area if Rakhal has to keep the cow tied to the same post with the same rope? A. ₹800 B. ₹880 C. ₹888 D. ₹930

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Question Nos. 35 - 36 are followed by two statements labelled as I and II. Decide if these statements are sufficient to conclusively answer the question. Choose the appropriate answer from the options given below:

- A. Statement I alone is sufficient to answer the question.
- B. Statement II alone is sufficient to answer the question,
- C. Statement I and Statement II together are sufficient, but neither of the two alone is sufficient to answer the
 - D. Either Statement I or Statement II alone is sufficient to answer the question.
 - E. Neither Statement I nor Statement II is necessary to answer the question.
- Let PQRS be a quadrilateral. Two circles O1 and O2 are inscribed in triangles PQR and PSR respectively. Circle 5 35 O1 touches PR at M and circle O2 touches PR at N. Find the length of MN.
 - I. A circle is inscribed in the quadrilateral PQRS.
 - II. The radii of the circles O1 and O2 are 5 and 6 units respectively.
- Given below is an equation where the letters represent digits. 36

(PQ). (RQ) = XXX. Determine the sum of P + Q + R + X.

- I. X = 9.
- II. The digits are unique.

Answer question nos. 37 - 39 based on the following information:

Mulchand Textiles produces a single product of only one quality waterproof synthetic fabric. Mr.Sharma, the cost accountant of Mulchand Textiles, estimated the costs of Mulchand Textiles for different possible monthly output levels. Before he could tabulate his estimates his computer crashed, and Mr. Sharma lost all data. Fortunately he had some printouts of some incomplete tables, charts and diagrams. The table titled "Variable Cost Estimates of Mulchand Textiles" provided the estimates of labour and material costs.

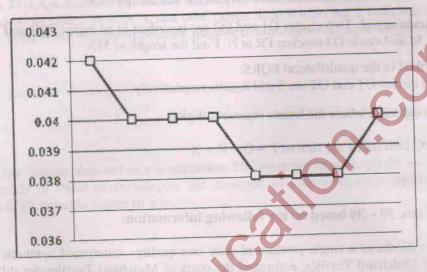
Output (Square feet)	Labour cost (₹)	Material cost (₹)
25000	21500	11050
50000	41500	22000
75000	60000	33000
100000	78000	44000
125000	95000	54750
150000	111000	65700
175000	133000	76650
200000	160000	88000

Apart from labour and material costs Mulchand Textiles incurs administrative costs of ₹ 40,000 per month, and electricity costs. Mr. Sharma recalled that estimate data of variable electricity cost had certain peculiar characteristics. Values at every 25000 sq ft of output increased in geometric progression till 150000 sq ft of output, after which values increased in arithmetic progression for every 25000 sq ft of output. Mr. Sharma remembered that the electricity cost was estimated to be ₹ 3800 for 25000 square feet of output, ₹ 5700 for 50000 square feet of output and ₹ 38856.50 for 175000 square feet of output.

The estimated cost per square feet of output is least for: 37

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- A. 75000 square feet output
- B. 100000 square feet output
- C. 125000 square feet output. If the feet beliefed almost such and additional to the feet output.
- D. 150000 square feet output in maintorings with second D. meltrang out i research viewindships of trajection
 - E. 175000 square feet output
- The estimated material cost given in the table titled "Variable Cost Estimates of Mulchand Textiles" included the cost of material that gets spoiled in the production process. Mr. Sharma decomposed the estimated material cost 38 into material spoilage cost and material usage cost, but he lost the data when his computer crashed. When he saw the following line diagram, he recalled that he measured the estimate of material spoilage cost per square feet of output on the y-axis and monthly output on the x-axis.

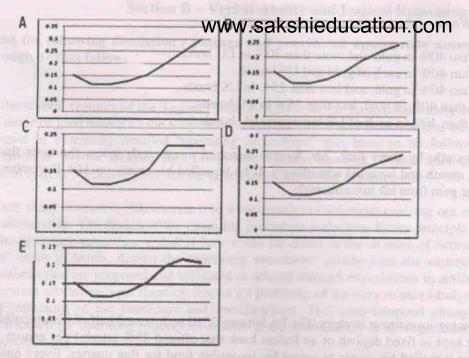


Estimated material usage cost per square feet of output

- decreases up to 125000 square feet of monthly output and then increases monotonically. Α.
- decreases up to 50000 square feet of monthly output, remains constant between 50000 and 100000, decreases between 100000 and 125000, remains constant between 125000 and 175000 and finally increases between 175000 and 200000 of monthly output.
- remains constant for all levels of monthly output. C ..
- increases up to 50000 square feet of monthly output, remains constant between 50000 and 100000, increases between 100000 and 125000, remains constant between 125000 and 175000 and finally decreases between 175000 and 200000 of monthly output.
- increases up to 100000 square feet of monthly output and then decreases monotonically.

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Mr. Sharma found some printouts of line diagrams. The axes of the graphs were not marked, but Mr. Sharma remembered that he measured monthly output on the x-axis. Which of the following diagrams would represent 39 the estimates of electricity cost per square feet of output versus monthly output? kings are in the first property of the state of the state



Answer question nos. 40 - 43 based on the following information:

In the beginning of the year 2010, Mr. Sanyal had the option to invest ₹ 800000 in one or more of the following assets - gold, silver, US bonds, EU bonds, UK bonds and Japanese bonds. In order to invest in US bonds, one must first convert his investible fund into US Dollars at the ongoing exchange rate. Similarly, if one wants to invest in EU bonds or UK bonds or Japanese bonds one must first convert his investible fund into Euro, British Pounds and Japanese Yen respectively at the ongoing exchange rates. Pransactions were allowed only in the beginning of every month. Bullion prices and exchange rates were fixed at the beginning of every month and remained unchanged throughout the month. Refer to the table titled "Bullion Prices and Exchange Rates in 2010" for the relevant data,

Bullion Prices and Exchange Rates in 2010

Date	Gold prices	Silver prices	US\$	€	£	¥
	₹/10 grams	₹X 10 grams	₹/US\$	₹/€	₹/£	₹/¥
January 1	20000	300	40	60	70	0.5
February 1	20100	302	41	61.5	71	0.51
March 1	20250	307	41	62	71	0.52
April 1	20330	310	42	62	71	0.52
May I	20400	312	42	62.5	72	0.53
June 1	20500	318	42	62.5	72	0.54
July 1	20650	330	44	63	73	0.55
August 1	20720	335	45	63	73	0.55
September 1	20850	340	47	64	74	0.57
October 1	20920	342	49	65	74	0.58
November 1	20950	345	50	65	74.5	0.59
December 1	21000	350	50	65	75	0.6

Interest rates on US, EU, UK and Japanese bonds are 10%, 20%, 15% and 5% respectively.

⁴⁰ Mr. Sanyal invested his entire fund in gold, US bonds and EU bonds in January 2010. He liquefied his assets on 3 31st August 2010 and gained 13% on his investments. If instead he had held his assets for an additional month he

would have gained 16.25% Which of the following options is correct? WWW.Sakshieducation.com

- A. Mr. Sanyal invested less than 40% in gold and more than 40% in EU bonds.
- B. Mr. Sanyal invested less than 40% in each of gold and US bonds.
- C. Mr. Sanyal invested less than 40% in gold, and less than 25% in US bonds.
- D. Mr. Sanyal invested more than 40% in gold, less than 25% in EU bonds.
- E. Mr. Sanyal invested more than 40% in each of US bonds and EU bonds.
- 41 At the beginning of every month, by sheer luck, Mr. Sanyal managed to correctly guess the asset that gave maximum return during that month and invested accordingly. If he liquefied his assets on 31st December 2010, how much was the percentage gain from his investments?
 - A. 34.64%
 - B. 46.71%
 - C. 47.5%
 - D. 49.15%
 - E. 49.96%
- Mr. Sanyal adopted the following investment strategy. On 1st January 2010 he invested half of his investible fund in gold and the other half he kept in fixed deposit of an Indian bank that offered 25% interest per annum. At the beginning of every quarter he liquefied his assets to create his investible fund for that quarter. Every quarter he invested half of his fund in the bullion that gave maximum return in the previous quarter and the other half in the foreign bond that gave maximum return in the previous quarter. However, if in any quarter none of the foreign bonds gave a better return than the fixed deposit of his Indian bank, he invested half of his investible fund in the fixed deposit for the next quarter. On 31st December 2010 Mr. Sanyal liquefied his assets and realized that all of the following options are true except:
 - A. By investing the entire amount in US bonds, he would have gained an additional ₹ 118395.
 - B. By investing the entire amount in UK bonds, he would have gained an additional ₹ 65035.
 - C. By investing the entire amount in EU bonds, he would have gained an additional ₹ 65035.
 - D. By investing the entire amount in Japanese bonds, he would have gained an additional ₹ 38395.
 - E. By investing the entire amount in fixed deposit of his Indian bank he would have gained an additional ₹38395.
- Advisors were asked to prepare an investment strategy that involved US Bonds, EU Bonds and Japanese Bonds, keeping at least 20% of the initial fund in each of these assets for the entire year, and allowing exactly four additional transactions in the course of the year. On 2nd January 2011, while comparing five different recommendations that he had received from his financial advisors in the beginning of 2010, Mr. Sanyal referred to the table "Bullion Prices and Exchange Rates in 2010". One transaction is defined as the buying or selling of an asset. Which of the recommendation out of the following was the best one?
 - A. Two additional transactions each during the month of June and November.
 - B. Two additional transactions each during the month of June and October.
 - C. Two additional transactions each during the month of May and June.
 - D. Two additional transactions each during the month of March and November.
 - E. Two additional transactions each during the month of March and October.

Section B – Verbal Ability and Logical Reasoning

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Read the following discussion / passage and provide an appropriate answer for the questions 44 through 47 that follow.

Of the several features of the Toyota Production System that have been widely studied, most important is the mode of governance of the shop-floor at Toyota. Work and inter-relations between workers are highly scripted in extremely detailed 'operating procedures' that have to be followed rigidly, without any deviation at Toyota. Despite such rule-bound rigidity, however, Toyota does not become a 'commandcontrol system'. It is able to retain the character of a learning organization.

In fact, many observers characterize it as a community of scientists carrying out several small experiments simultaneously. The design of the operating procedure is the key. Every principle must find an expression in the operating procedure - that is how it has an effect in the domain of action. Workers on the shopfloor, often in teams, design the 'operating procedure' jointly with the supervisor through a series of hypothesis that are proposed and validated or refuted through experiments in action. The rigid and detailed 'operating procedure' specification throws up problems of the very minute kind; while its resolution leads to a reframing of the procedure and specifications. This inter-temporal change (or flexibility) of the specification (or operating procedure) is done at the lowest level of the organization; i.e. closest to the site of action.

One implication of this arrangement is that system design can no longer be rationally optimal and standardized across the organization. It is quite common to find different work norms in contiguous assembly lines, because each might have faced a different set of problems and devised different countermeasures to tackle it. Design of the coordinating process that essentially imposes the discipline that is required in large-scale complex manufacturing systems is therefore customized to variations in manmachine context of the site of action. It evolves through numerous points of negotiation throughout the organization. It implies then that the higher levels of the hierarchy do not exercise the power of the fiat in setting work rules, for such work rules are no longer a standard set across the whole organization.

It might be interesting to go through the basic Toyota philosophy that underlies its system designing practices. The notion of the ideal production system in Toyota embraces the following - 'the ability to deliver just-in-time (or on demand) a customer order in the exact specification demanded, in a batch size of one (and hence an infinite proliferation of variants, models and specifications), defect-free, without wastage of material, labour, energy or motion in a safe and (physically and emotionally) fulfilling production environment'. It did not embrace the concept of a standardized product that can be cheap by giving up variations. Preserving consumption variety was seen, in fact, as one mode of serving society. It is interesting to note that the articulation of the Toyota philosophy was made around roughly the same time that the Fordist system was establishing itself in the US automotive industry.

- What can be best defended as the asset which Toyota model of production leverages to give the vast range of models in a defect-free fashion?
 - A. Large scale complex manufacturing systems
 - B. Intellectual capital of the company's management
 - C. Loans taken by the company from banks and financial institutions
 - D. Ability of workers to evolve solutions to problems
 - E. Skill and charisma of the top leadership
- Which of the following can be best defended as a pre-condition for the Toyota type of production system to work?
 - A. Existence of workers' union to protect worker's rights
 - B. Existence of powerful management to create unique strategies

C. Cordial worker-management relations to have industrial peace D. High management involwww.sakshieducation.com orkers E. Management's faith in workers' abilities to solve problems in a rigorous manner Based on the above passage, which of the following statements is best justified? 46 Workers have significant control rights over the design of work rules that allow worker skills and ingenuity to continuously search for novel micro-solutions using information that often sticks to the local micro-context of the work. Managers have significant control rights over the design of work rules that allow worker skills and ingenuity to continuously search for novel micro-solutions around micro-information that often sticks to the local micro-context of the work. Work rules enable the workers to report problems faced at the shop-floor to specialised personnel who set up experiments to replicate the conditions. This allows the specialists to come up with solutions that are rigorously tested in experimental conditions. Toyota as an organization has extensive networks with different specialists who are subject matter experts in different fields. These networks allow problems to be resolved in the most advanced manner, enabling Toyota to beat the competition. Toyota's products are extensively tested by customers in simulated conditions before they are released to the market. This extensive testing is done by workers who double up as a community of scientists experimenting to develop the most advanced product. What could be the best defence of the "different work norms in contiguous assembly lines"? A. Without such variations allowed, rights of manager to design work-rules would have made very little sense, making the company similar to Ford. B. Proscribing standardised work norms would prevent Toyota from benefiting from workers' problem solving ability in resolving different kinds of problems that emerge, thus making it difficult to attain the Toyota philosophy C. If similarities were imposed, rights of workers to experiment with work-rules would have made very little sense. D. Standardisation of work rules is only justified when the investments in plants are huge and experimenting with the work rules would be detrimental to the efficiency of the plants. Since Toyota's plants typically involved low investments, it could tolerate non standards work rules. With standardization of processes, right of the workers in design of work-rules made sense. Since Toyota's manufacturing processes were non-standardised, the different work norms did not make sense. his composition to the best of his _____; yet listen to it with a sympathetic The author has souls, and judge it. The options that best fill the blanks in the above sentence would be: A. honed, insights, mind, distinguished B. polished, intellect, mind, noble C. polished, mind, intellect, noble D. refined, ingenuity, heart, righteous I. refined, thoughts, heart, righteous

this place and it is not possible to reach ____ without the grace of

There is much difficulty getting

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the lord.

The option that best fill the blanks in the above sentence would be com www.sakshieducation.com A. in; to: it B. to: to: it C. to: in: it D. in; in; in E. in; to; to you have a doubt, why not go and verify? I shall be waiting in the shade _____ this banyan tree till you 50 The option that best fill the blanks in the above sentence would be: A. if; under; on the manage of management has represented by the second district of the sec B. as; of: for an and glassing ugaz and a some grassic and to south, with the south which the south of the so C. as; of; at la Lecture a lit as doubt and street live entered between lighting sports arrive og de D. for; under; at the guidaste at the line is processed eventue yllimit rods under graning sentent E. if: of: to the matter shape will be a war of a state of the property of the state of the stat Pick the odd one out; A. wisdom; folly B. friendship; enmity C. often; seldom D. loyalty; treachery E. devotion: loathing Analyse the following passage and provide appropriate answers for the questions 52 through 55 that We can answer Fermi's Paradox in two ways. Perhaps our current science over-estimates the likelihood of extraterrestrial intelligence evolving. Or, perhaps, evolved technical intelligence has some deep tendency to be self-limiting, even self-exterminating. After Hiroshima, some suggested that any aliens bright enough to make colonizing space ships would be bright enough to make thermonuclear bombs, and would use them on each I suggest a different, even darker solution to the Paradox. Basically, I think the aliens forget to send radio signals or colonize space because they're too busy with runaway consumerism and virtual-reality narcissism. Once they turn inwards to chase their shiny pennies of pleasure, they lose the cosmic plot. The fundamental problem is that an evolved mind must pay attention to indirect cues of biological fitness, rather than tracking fitness itself. This was a key insight of evolutionary psychology in the early 1990s; although evolution favours brains that tend to maximize fitness (as measured by numbers of great-grandkids), no brain has capacity enough to do so under every possible circumstance. As a result, brains must evolve shortcuts: fitness-promoting tricks, cons, recipes and heuristics that work, on an average, under ancestrally normal conditions. Technology is fairly good at controlling external reality to promote real biological fitness, but it's even better at delivering fake fitness-subjective cues of survival and reproduction without the real-world Fitness-faking technology tends to evolve much faster than our psychological resistance to it. With the invention of Xbox 360, people would rather play a high-resolution virtual ape in Peter Jackson's King Kong than be a perfect-resolution real human. Teens today must find their way through a carnival of addictively fitness-faking entertainment products. The traditional staples of physical, mental and social development athletics, homework, dating—are neglected. The few young people with the self-control to pursue the

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meritocratic path often get distracted at the last minute.

WWW.Sakshieducation.com focus shifted to virtual entertainment. Around 1900, most inventions concerned phy Freud's pleasure principle triumphs over the reality principle. Today we narrow-cast human-interest stories to each other, rather than broadcasting messages of universal peace and progress to other star systems.

Maybe the bright aliens did the same. I suspect that a certain period of fitness-faking narcissism is inevitable after any intelligent life evolves. This is the Great Temptation for any technological species-to shape their subjective reality to provide the cues of survival and reproductive success without the substance. Most bright alien species probably go extinct gradually, allocating more time and resources to their pleasures, and less to their children.

Heritable variation in personality might allow some lineages to resist the Great Temptation and last longer. Some individuals and families may start with an "irrational" Luddite abhorrence of entertainment technology, and they may evolve ever more self-control, conscientiousness and pragmatism by combining the family values of the religious right with the sustainability values of the Greenpeace. They wait patiently for our fitness-faking narcissism to go extinct. Those practical-minded breeders will inherit the Earth as like-minded aliens may have inherited a few other planets. When they finally achieve contact, it will not be a meeting of novel-readers and game-players. It will be a meeting of dead-serious super-parents who congratulate each other on surviving not just the Bomb, but the Xbox.

- Among the following options, which one represents the most important concern raised in the passage? 52
 - A. Extraterrestrial life and its impact on human beings.
 - B. Lack of interest in developing proper fitness.
 - C. Short-term pleasure seeking behaviour.
 - D. Technological advancement and extinction of intelligence.
 - E. Tendency of brain to develop shortcuts.
- Which among the following would be the best possible explanation for the lack of contact between human beings and aliens?
 - A. Overestimation of the technological capability of aliens.
 - B. Genetic variation in aliens' personality is not yet achieved.
 - C. Thermonuclear bombs might have destroyed all aliens.
 - D. Colonisation of space is impossible to achieve.
 - E. Aliens have become self centred and pleasure seeking.
- To which of the following statements would the author of the passage agree the most?
 - A. Violent crime, including gang warfare for turf protection and expansion, co-exists in all technological advanced societies in spite of proliferation of fitness-faking technologies.
 - B. The technology to produce fitness-faking gadgets is guided by the government's desire to control the minds of citizens and keep citizens away from engaging in trouble-making activities.
 - C. Countries that have the most advanced technology often are the ones that are at the forefront of colonial expansion through wars.
 - D. Wars and colonial conquest engaged in by the European nations after the renaissance would not have occurred had fitness-faking gadgets and consumerism existed in those countries during those times.
 - E. The search for colonies is undertaken by all the countries, irrespective of their technological expansion. This colonial expansion is guided more by need for adventure than for resources.
- Which of the following statements, if true, challenges the ideas presented in the passage the most?
 - I. Violent crime, including gang warfare for turf protection and expansion, co-exists in all technological advanced societies in spite of proliferation of fitness-faking technologies.
 - II. The technology to produce fitness-faking gadgets is guided by the government's desire to control the minds

	of citizens and keep citizenwww.fsakshieducation.com.ctivities. III. Countries that have the most advanced technology often are the ones that are at the forefront preparedness for wars.	of
	IV. The era of colonial expansion that was engaged in by the European nations after the renaissance would be never taken place had the technology to produce fitness-faking gadgets existed during those times. V. Teenagers having access to technology, engage in more socializing away from parental supervision the those who do not have access to such technology.	ad
	A. I & III B. II & III C. III & IV	
	D. I. II. & V D. II. II. & V D. I. II. & V D. II.	
56	Nature is and unchangeable, and it is as to whether its hidden reasons and to man or not.	ıd
	The option that best fill the blanks in the above sentence would be:	
	A. relentless, indifferent, actions, understandable B. persistent, heartless, actions, comprehensible C. inexorable, apathetic, activities, explicable D. harsh, indifferent, actions, understandable E. inescapable, unconcerned, activities, intelligible	
57	Impressions are direct, vivid, and forceful products of immediate experience; ideas are merely feeble copies of these original impressions.	f 3
	Assuming the above statement is true, which of the statements logically follow from it?	
	A LAVELY BEID/ICONOR ICAGE TO 3D 1/1/20	
	II. Ideas must follow an antecedent impression.	
	III. The colour of the 2011 XAT test booklet right in front of a candidate is an impression to her, whereas the memory of the colour of her television set is an idea.	
	IV. If one was interested in origin of the idea of the colour of a television set, then one need to understand the impressions from which this idea was derived.	
	A. I & III B. II & III C. II & IV D. II, III & IV E. I, II, III & IV	
	E. I, II, III & IV	
	Media are not just passive channels of information. Not only do they supply the stuff of thought, but they also shape the process of thought. And what the Internet seems to be doing is chipping away our capacity for concentration.	1,
	Which of the following, if true, would most strengthen the argument presented above?	
	A. Nietzsche was forced to use a typewriter when he started losing his vision. After he mastered the machine, he could type with his eyes closed. It was later found that under the effect of the machine, Nietzsche's prose	

C.	"changed from arguments www.sakshieducation.com rhetoric to telegram style". One of the effects of the timekeeping instruments has been that we have started deciding on our daily activities based on the clock and not based on our senses. Studies have shown that the essay writing skills of an average 15 - 20 year old, who spends a lot of time browsing the Internet, is comparable to what it was among the average 15-20 year old, throughout the 1980s and the 1990s. A recent study has shown that the number of people who fall asleep while reading a printed book has increased in the last five years. The ability of the younger judges, who have grown up with ready access to Internet, to judge complex and intricate cases, has, on an average, become better as compared to what it was for judges of comparable age profile during the 1920s.	
W	which of the following, if true, would most weaken the argument presented in the previous question?	1
B	Nietzsche was forced to use a typewriter when he started losing his vision. After he mastered the machine, he could type with his eyes closed. It was later found that under the effect of the machine, Nietzsche's prose "changed from arguments to aphorisms, from thoughts to puns, from rhetoric to telegram style". 3. One of the effects of the timekeeping instruments has been that we have started deciding on our daily activities based on the clock and not based on our senses. 3. Studies have shown that the essay writing skills of an average 15 - 20 year old, who spends a lot of time browsing the Internet, is comparable to what it was among the average 15-20 year old, throughout the 1980s and the 1990s. 3. A recent study has shown that the number of people who fall asleep while reading a printed book has increased in the last five years. 3. The ability of the younger judges, who have grown up with ready access to Internet, to judge complex and intricate cases, has, on an average, become better as compared to what it was during the 1920s.	
F	Randomness has to be dealt with successfully to ensure a better control over one's life. Before one can deal effectively with randomness, one must acknowledge its existence.	3
	The above statements implies the following except:	
E	A. Randomness can be dealt with effectively. B. If one acknowledges the existence of randomness, one will be able to deal with it effectively. C. One can deal effectively with randomness if and only if one acknowledges its existence. D. Everyone lives in a random world	
I	E. If one does not acknowledge the existence of randomness, one cannot deal with it effectively.	
1	Perhaps this war will pass like the others which divided us, leaving us dead, killing us along with the killers but the shame of this time puts its burning fingers to our faces. Who will erase the ruthlessness hidden in innocent blood? Which of the following is certainly not implied in the above verse?	1
	A. Killers also get killed in war.	

A. Killers also get killed in war.	
B. Humanity gets divided by war and reunites afterwards in peace.	
C. This war is especially ruthless.	
D. This war is shameful to the entire humanity.	
E. None can obliterate the ruthlessness of this war.	

Travelling is my hobby. Today in the Himalayas, as I drag my feet through the ______, I cannot but think of the same time last year when I was negotiating the thick ______ of the Ganges delta or for that matter the time I spent with my children _____ about in the waters of the Arabian Sea.

The option that best fill the blanks in the abkshieducation com A. slush, sludge, sloshing B. sludge, slosh, slushing C. slush, slosh, sludging D. slosh, sludge, slushing E. sludge, slush, sloshing In spite of being perceived as by all, the club members decided to _ Arun, a skinny teenage 3 _, as the member of the year, so that the whole affair would be ___ Arun's father who was recuperating after a serious illness. The option that best fill the blanks in the above sentence would be: A. felon, felicitate, freckles, febrile B. feral, facilitate, feckless, felicific C. federate, facilitate, freckles, feral D. febrile, felicitate, feckless, feral E. feckless, felicitate, freckles, felicific Few sentences are given below continuously. Identify the best sequence of punctuations among the given options. (The rule of capitalization at the beginning of sentences has been ignored in the passage given below). Note: the arrows in the options indicate text that would be within the punctuations. a persons frames of perception and action are narrow in early stages of development focused on social membership and technical competence the early life of organizations often is focused on survival and efficiency only later and rarely emphasizing process of learning and development however in later stages both individual and organization become more concerned with the learning process itself the way the perceptions and practices are articulated and revised in interactions and how more people can be engaged in mutual learning and inquiry Choose the odd one: 3 :: Clean

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A. Water :: Dirty B. Battery : Dead ♦ :: Music C. Wood :: Burn D. Juice :: Ferment :: Wine E. Rain :: Thunder :: Hail

Choose the odd one:

A. The balloon goes up Spot fixing scandal B. In the altogether Bath tub C. The halcyon days Childhood D. The real McCov Darjeeling Tea E. Throw down the gauntlet UN peace keeping force

3

benefit of another.

2. Following the weight of corporate law and legal precedent, the director primacy model positions directors as

autonomous fiduciaries, not agents.

3. The term fiduciary derives from the Latin *fiducia*, or trust, and the fiduciary is expected to act in good faith and honesty for the beneficiary's interests.

4. A person who accepts the role of fiduciary in law must single-mindedly pursue the interests of his or her beneficiary, in this case the corporation, even when the latter cannot monitor or control the fiduciary's behaviour.

A. 3. 1. 4, 2

B. 3, 4, 1, 2

C. 2, 1, 3, 4

D. 4, 2, 3, 1

E. 2, 1, 4,3

68 Read the sentences and choose the option that best arranges them in a logical order.

- a. Generally, it is unusual for a new problem in international relations to be considered without at the same time some international organization being developed to deal with it.
- b. International society has, in spite of the diversity of culture and political systems, been progressively drawn closer together and become more unified.
- c. Despite the fears and concerns of some governments that international organizations are increasing too fast and that they are a burden on their exchequers, they are still proliferating at a considerable rate.
- d. People and their governments now look far beyond national frontiers and feel a common responsibility for the major problems of the world and for lesser problems that may subsist within smaller groups of states.
- e. More recently in the 1990s the problems of international trade, which was growing increasingly complex, led to the development of the WTO.
 - f. For instance, concern with the instability of commodities markets led to the establishment in the 1980s of the Common Fund for Commodities and the competition for the newly discovered wealth of the international seabed area resulted in the creation of the ISA under the Law of the Sea Convention of 1982, based on the concept of the common heritage of mankind.

A. a.b.c.d.f.e

B. b.e.d.c.f.a

C. c.a.f.e.d.b

D. c.a.f.e.b.d

E. d.c.a.b.f.e

As the information on air warfare tasks and stressors was being gathered and scenarios were being developed, a parallel effort ensued to identify a test bed simulation for air warfare teams. To maintain experimental control, it was determined by the designers that choosing a low physical fidelity simulation was acceptable as long as cognitive fidelity in a team simulation was maintained through subjecting soldiers to pressure situations in a simulated combat setting and attempting to ensure that naturalistic decision making of soldiers would not be compromised.

Which of the following statements, if true, weakens the logic of the above passage?

i. A number of studies have shown that high levels of physical stress lead to a weakening of the decision-

making capabilities of humawwww.sakshieducation.com

- ii. It has been convincingly demonstrated by various studies that human beings by nature are not designed to adapt to high levels of mental stress
- iii. Numerous studies have shown that simulated environments can be designed to be good substitutes for real-
- iv. Studies have shown that simulated exercises for armed forces personnel have tended to induce a systematic type of "correct" and common behaviour among the trainees
 - v. Officers, when short-listing soldiers for critical operations, pick up battle-hardened soldiers rather than those who have been trained through simulations.

A, i and ii

B. ii and iii

C. i and iv

D. i, ii, iv, and v

E. ii, iii, iv and v

Answer Questions 70-71 on the basis of the paragraph below

We are not only afraid of being in the dark; we are also suspicious of being kept in the dark. We often feel that the universe has a hidden order that we cannot quite comprehend. In ancient times, this order was attributed to the gods—omnipotent beings who controlled humans' fates. Greek myths in particular portrayed humans as pawns in the great games played by the gods. More recently, there are suspicions of global conspiracies. These conspiracies are cited for events that are too important to be random. We no longer describe them as "Acts of God," so they must be the work of other people—people who are hiding their influence over us, covering up their involvement. They are keeping the rest of us in the dark. Among the events attributed to these people are political assassinations and UFO sightings. Examining these events in minute detail results in a long list of "coincidences" which, in the minds of the conspiracy buffs, are too numerous to be truly random. There must be a cover-up. Better to think that we are all being kept in the dark by sinister forces than to admit that there is no order.

Which of the following statements, if true, would weaken the underlying logic of the above passage?

- The human need for order is a highly exaggerated notion. It more often than not leads to creation of theories about the universe. The more sensational the theory, the more prevalent it becomes.
- The universe is less guided by pure randomness than by well-defined natural processes which are subjected to randomness at varying intervals of time and space.
- iii. To strengthen their case for a variety of conspiracies the conspiracy buffs are extrapolating from a very small set of observed "coincidences".
- iv. The persons propounding the different conspiracy theories are usually novelists who use these theories as a backdrop during the construction of the plots of the novels.
- v. The human fear of being kept in the dark is much stronger than the fear of lack of order in the workings of the universe.

witeding and picture of the against disease will be a present of the property of the property

A. i, ii and iii

B. i. ii and iv

C. i. iii and iv

D. i, iv and v

E. ii, iv and v

Which of the following statements would, if true, strengthen the case for belief in sinister forces and 3 conspiracies being at work in the above paragraph?

- i. Though science has progrewww.sakshieducation.com it is still unable to explain/account for more than 80% of the phenomena in the universe.
- ii. There is now the existence of photographic evidence of presence of UFOs and a growing number of parallel studies showing that the human mind can easily be manipulated to do someone else's will through various events that manipulate the 'perceived reality'.
- iii. The fear of our actions and thoughts being controlled by someone else has intensified with the widespread popularity of the depiction of its gory outcomes by different novelists and movie makers.
- iv. There is a strong movement to reintroduce the teachings of the biblical evolutionary process and the presence of God in schools around the world.
- v. The Darwinian study of evolution of species, the cornerstone of beliefs in fathomable randomness of the workings of the universe has come under a scathing attack for its inaccurate depiction of the causes and process of evolution.
- A. i and iv
- B. i and v
- C. ii.iii and v
- D. i. ii and v
- E. ii, iii, and iv
- The motivation of human beings towards their work is a subject matter that is at once a simple as well as an extremely complicated matter. For a long time, economists, sociologists, as well as psychologists believed that a carrot and stick approach, with monetary incentives playing the role of the carrot, would be sufficient to goad employees towards achieving higher levels of performance. However, a number of recent studies and observations, especially dealing with the open source revolution are placing on the table strong evidence suggesting that monetary incentives are only one part of the entire story of motivation through incentives. In a study conducted by a group of researchers at MIT, it was found that monetary incentives work well only in respect of tasks requiring mechanical skills i.e. those tasks not requiring much use of higher level cognitive abilities (such as memorizing or problem solving). In fact, their study showed that setting high monetary incentives for tasks requiring cognitive abilities were more likely than not to produce adverse outcomes. Since this result flew straight in the face of the widely accepted body of knowledge on employee motivation, they conducted multiple experiments in different settings and countries to ensure that it was not a one-off result. The findings were the same in all repetitions of the experiment. These studies appear to suggest that monetary incentives need to be provided only to such an extent as to take the minds of employee off the issue of money and focus on other issues that are necessary to get the job done right. For instance, some experiments have shown that greater autonomy to employees and lowered interference from management (and bosses) is successful in driving the performance of employees working in cognitive skill intensive jobs.

Identify the statement(s) that is (are) logically consistent with the content of the paragraph?

- i. The carrot-stick approach essentially requires the use of rewards to get more of a desired behaviour whereas penalties lead to increased undesirable behaviour.
- ii. Expending time and effort on the design of monetary incentives is a wasteful exercise.
- iii. The study by the group of MIT researchers was a flawed exercise from the start.
- iv. There appears to be a need to reorient the existing paradigm prevalent in incentive design.
- V During the process of designing incentives, one should clearly delineate activities into those requiring mechanical skills and those requiring higher-level cognitive skills and design with separate sets of incentives and penalties for each.
- A. i and iv
- ben C. if and its out belong and more after subspective, strengther the cour loss best by the first property would be the first property of the best by the first property of the best by the best by
 - D. ii and iv
 - E. iv and v

Answer questions 73-74 on the basis of the following conversation between two friends, Paradox (P) and Herodox (H)

P: The human body is but the tomb of the soul and the visible world of matter is appearance that must be overcome if we are to know reality. The former is an integral part of "being", that which can neither come into existence nor cease to exist for it always is. Being is unmoved and undisturbed. Motion and disturbance belong to the realm of "becoming", the changing world of unreality rather than of "being" in which true reality resides. Further, motion & change by belonging to the realm of "becoming" by having no separate existence of their own are logically inconsistent with reality and hence, unworthy of serious study.

H: All things are in a state of perpetual flux. Permanence, and by extension, the concept of "being" is only an illusion. This change and continual transformation, through an often disorderly process of conflict and survival of the fittest, is the underlying principle at work in the universe. It is from this principle that all things come into existence, and forms the basis for the morals and governance patterns that attempt to preserve the social thread of societies. By extension, the study of human activity through the lens of an idealized state of "being" and as a basis for formulating moral codes of conduct is inappropriate at best.

Which of the following statements could be considered as logically consistent with the views of Paradox 3 in the above paragraphs?

- A fly travelling on a flying arrow perceives it to be at rest. Therefore the flying arrow belongs to the realm
 of being.
- The activities of day to day life are concerned with the unreal part of human existence and hence, should not be subject to moral standards.
- iii. Maintaining a balance among the various constituents of society is essential to the well-being and the continuing existence of the soul.
- iv. Conflicts and the coming of spontaneous order do not have any underlying causes that are relevant for study as the notion of perpetual flux itself is erroneous.
- v. The real is and cannot be non-existent. Further, reality is one and unique.

A. i only

B. ii and iv

C. iv and v

D. i, ii, and iii

E. i,iv, and v

74 Which of the following statements best represents an implication of Herodox's ideas?

- A. Religion and other approaches that stress on maintaining and developing the purity of the human soul are subjects that do not merit serious attention.
- B. The setting of moral standards and codes of governance have to be more procedure-oriented with a focus on the way humans conduct themselves in their interactions with each other.
- C. Maintaining a balance between various constituents of the society and conflict prevention is essential to the maintenance of social order and a pre-requisite for governance.
- D. As the real world relevant to the existence of human beings is in a state of perpetual flux, attempting to study the same in a systematic manner would be meaningful despite reality itself having changed by then.
- E. There is no notion of time-space-invariant reality. There can be numerous realities both across times and across human cultures & civilizations.

Answer Questions 75-77 on the basis of the information below.

Five reviews of the recently published novel, Caught in a Blizzard, are reproduced below. The reviews and the reviewers are identified as indicated by the letters.

- A This novel can change your life for the good, as it has changed mine. It has made me reflect critically about my life. WWW.Sakshieducation.com
 - B The novel has become a popular piece of literature, more among the youth than among the older population.
- C The author uses the plot in her novel to present her philosophy about life in a positive light, rather than relying on the merits of the philosophy per se.
 - D The author is known to be a writer of great power. The intricate and captivating plots in her novels shows that she has a subtle and ingenious mind.
 - E People have been jolted out of their beliefs about love and other different aspects of life after reading this novel.

The options to the questions 75-77 are same as the reviews/ reviewers indicated above.

- There has been criticism about reviewers that they write reviews after having a cursory reading of the book in question. Based on the analysis of the different reviews, which reviewer is most likely to have read the book in greater detail as compared to the other reviewers?
- 76 Out the five reviews given, which one can be most objectively validated?
- 77 Which reviewer eulogises the author rather than critically reviews the novel

Section C - Analytical Reasoning and Decision Making www.sakshieducation.com

Indian government may hold top executives responsible if state-run power companies fail to meet performance targets and punish them with fines and transfers. The strict performance parameters are aimed at ensuring that at least the reduced target for 62,000 MW of generation capacity addition is achieved before the end of the 11th Plan, said a power ministry official. Performance of chairmen and managing directors of the power Public Sector Units (PSUs) in project implementation will be assessed as per the terms and conditions stipulated in the company's memorandum of understanding (MoU) with the power ministry, he said, requesting anonymity. Performance parameters of executives had came under strict scrutiny due to a lack of progress in capacity addition program. While the target for the 11th five year plan has already been scaled down by the government from 78,500 MW, in the first three years of the plan yielded only 22,302 MW of fresh capacity.

If you were the chairman of one of these power PSU's, which of the following statements (all of which are assumed to be true) could best be used in order to strengthen your case against the government holding top executives responsible?

- i. The labour unions, owing allegiance to ruling party at the Centre, are not allowing work to progress with their demands for wage hikes that are untenable
- ii. The actions of the mid-level management are not in line with the objectives laid down by the top management
- iii. The delays have been due to difficulties in obtaining funds at reasonable interest rates on account of the recessionary conditions
 - iv. We are not to blame. The government is not doing enough to ensure availability of sufficient fuel to power the existing plants, let alone the new plants.
 - v. The government had ignored the infrastructure availability like roads etc., and environmental clearances required for such projects and therefore set an unrealistic target to begin with, and the revised target is also unrealistic as well.

A. i and ii

B, i and iii

C. i. iii and iv

D. ii,iv and v

E, i, ii, iii, iv and v

Answer Questions 79 - 80 on the basis of the paragraph below

The CEO of ABC Telecom Ltd. (ABC) is in a quandary since he received the telephone call in the morning from his counterpart at LMN Telecom Ltd. (LMN). Both companies were engaged in a bitter experience a couple of years ago when they had attempted to merge with the intention of creating a behemoth telecom company, possibly the largest in the world. The merger had fallen through due to opportunistic behaviour on the part of Mr. Das, then CEO of LMN. During the time the merger talks were taking place, Mr. Das had also approached a few other suitors for LMN in an attempt to force ABC to pay a higher price. Further, there were reports of attempts by management of LMN to scuttle the deal. Back then, ABC had also faced stiff opposition to the deal from one of its large shareholders.

Since then, a lot has changed for both companies. The bleak economic conditions due to recession had led to a drastic fall in the market value of both companies, with ABC comparatively losing much more in terms of market value. Raising money has become more difficult for both companies, especially for LMN. On the brighter side for ABC, the opposing shareholder had recently sold off his stake to another investor who earlier had supported the original merger deal with LMN a couple of years ago.

- Which of the following would be the most appropriate line(s) of thought for the CEO of ABC to adopt in 3 response to the offer by LMN?
 - i. Once bitten twice shy. There is simply no way I can think of resuming talks with LMN after their unethical

- behaviour the previous time around, I would rather spend my time on merger discussions with other companies.
- ii. The deal may make less business sense this time around. However, if it goes through, I will become the CEO of the world's largest telecom company. So let us try our luck once more.
- iii. I will resume talks only if they provide guarantees as to the reimbursement of our expenses incurred, in the event of the deal not materializing.
- iv. Let me not be biased against dealing with LMN. If we can secure the deal at a reasonably low price, benefiting our shareholders, let us go ahead with it.
- v. I am not sure if we can raise the money now. In any event, they are the ones facing greater financial problems.

 So let's not hurry now. We might have an opportunity to buy them out at a cheaper price later.
 - A. i and iii
 - B. ii and iv
 - C. ii and iii
 - D. i and iv
 - E. iv and v
- The merger of ABC and LMN has been confirmed after detailed negotiation with LMN holding the majority share of the resultant entity. LMN has financed the merger by taking debt at higher than-market interest rates from its bankers, in the hope that it would be able to streamline operations and reduce costs in the resultant entity which will allow it to repay the loan. If you were an investor looking to investing the resultant entity?
 - A. The new entrants in the telecom market were coming with better offers for the customers.
 - B. The market would be as competitive as ever for the resultant entity, thus providing no guarantee for success.
 - C. The combined management did present have any grand strategies to the investors.
 - D. ABC's management was giving in to Mr. Das who was a known opportunist.
 - E. LMN was using high cost debt to purchase another company in the same industry facing similar problems, with no visible advantage for the combined entity over competitors.
- Wind turbine maker Leone Energy posted a net loss of ₹ 250 crore for the fourth quarter ended March 31, 2010 as against a net profit of ₹ 350 crore in the same quarter a year-ago. In the financial year 2009-10, the company clocked a gross income of ₹ 6,517 crore, as against ₹ 9,778 crore in the previous year. Leone Energy clocked a loss of ₹ 1100 crore in 2009-10, as against a net profit of ₹ 320 crore in 2008-09. The sales revenues stood at ₹22,400 crore for the year, approximately 21 per cent less as against ₹28,350 crore last year. For the financial year ending March 31, 2010, Leone Energy's sales volume (in terms of capacity of projects executed) was 4,560 MW from 2,935 MW a year ago. The CEO of Leone Energy in his message to shareholders suggested that the poor performance of the company was the result of adverse economic conditions during the year ended March 31,2010

You are a shareholder owning 5% of the shares of Leone Energy, have seen the stock price decline by more than 50% during the year 2009-10, and are quite upset with the way the management has been handling the business. You have decided to confront the management at the next shareholders' meeting and have chosen the following 5 points to argue against the CEO's version of the story. In light of the above paragraph, select the most appropriate order of these 5 statements that you, as a disappointed shareholder, should adopt as a stinging and robust preface in your case against the management in front of the management and other shareholders.

- a The management is not doing its best to maintain the profitability of the company
- b The company has actually increased its sales volume during the year under consideration
- The adverse economic conditions have led to a worldwide increase in the adoption of alternative energy sources, reflecting in all-time highest profits for wind turbine makers in both developed and developing countries
- d The management has been lax with its employees as the management enjoys a large set of benefits

from the company that they www.sakshieducation.com/ith employees.

The company is trying to increase sales by charging lower, unprofitable prices.

A. b,c,a

B. a.c.b

C. b.e.c

D. c.b.e

E. e.b.c

On 1st March, Timon arrived in a new city and was looking for a place to stay. He met a landlady who offered to 3 82 rent her apartment at a reasonable price but wanted him to pay the rent on a daily basis. Timon had a silver bar of 31 inches, and an inch of the silver bar was exactly equal to a day's rent. He agreed to pay an inch of the silver bar towards the daily rent. Timon wanted to make the minimum number of pieces of the silver bar but did not want to pay any advance rent. How many pieces did he make?

B. 8

C. 16

D. 20

E. 31

Read the following case and choose the best alternative (Questions 83-86);

Chetan Textile Mills (CTM) had initiated various employee welfare schemes for its employees since the day the mill began its operations. Due to its various welfare initiatives and socially responsible business practices, the organization had developed an impeccable reputation. Majority of the regular workers in Chetan Mills had membership of Chetan Mills Mazdoor Sangh (CMMS), a non political trade union. CMMS had the welfare of its members as its guiding principle. Both CTM and CMMS addressed various worker related issues on a proactive basis. As a result no industrial dispute had been reported from the organization in the recent past.

These days majority of the employers deploy large number of contract labourers in their production processes. In an open economy survival of an organization depends on its competitiveness. In order to become competitive, an organization must be able to reduce cost and have flexibility in employment of resources. Engaging workers through contractors (contract labourer) reduces the overall labour cost by almost 50%. Indian labour legislations make reduction of regular workers almost impossible, but organizations can overcome this limitation by employing contract labourers. Contract labourers neither get the same benefits as regular employees nor do they have any job security. According to various recent surveys, government owned public sector units and other departments are the biggest employers of contract labourers in the country. Contractors, as middle-men, often exploit the contract labourers, and these government organizations have failed to stop the exploitation.

Over time CTM started engaging a large number of contract labourers. At present, more than 35% of CM's workers (total 5,000 in number) are contract labourers. CMMS leadership was wary about the slow erosion of its support base as regular workers slowly got replaced by contract workers and feared the day when regular workers would become a minority in the mill. So far, CMMS has refused to take contract labourers as members.

Recently, based on rumours, CTM management started to investigate the alleged exploitation of contract labourers by certain contractors. Some contractors felt that such investigations may expose them and reduce their profit margin. They instigated contract labourers to demand for better wages. Some of the contract labourers sought the support of various political parties in order to increase their negotiation power. Contract labourers engaged in material handling and cleaning work started provoking CTM management by adopting violent tactics.

Today's news-paper reports that police and CTM security guards fired two or three rounds in air to quell the mob. The trouble started while a security guard allegedly slapped one of the contract labourers following a heated argument. Angry labourers set fire to several vehicles parked inside the premises, and to two police jeeps.

- In the wake of recent happenings, what decision is expected from CTM management? From the combinations given below, choose the best sequence of action. COM 83
 - I. Stop the current investigations against the contractors to ensure industrial peace; after all allegations were based on rumours.
 - II. Continue investigations to expose exploitation and take strong actions against trouble makers.
 - III. Get in direct touch with all contract labourers through all possible means, communicate the need for current investigation to stop their exploitation, and convince them regarding CTM's situation due to competition. Also expose those contractors who are creating problems.
 - IV. Promise strong action against the security guards who are guilty.
 - V. Increase the wages of contract labourers. of mether, and on their of the other law was etactly equal to a day's rest. He suggest to pay an inch of the

A. I. V

B. I. II

C. II. V

D.III, IV

- In the current context, which among the following represent the most suitable reaction from CMMS leadership? 84
 - A. Distance CMMS from the episode and explain that CMMS is not involved in the fiasco through a press
 - B. Offer membership to contract labourers, which would put the contract workers at par with the regular workers
 - C. Do not offer membership to contract labourers, but represent their interests during negotiation in order to prevent the formation of another union in CTM.
 - D. Start another union exclusively for contract labourers of CTM.
 - E. Adopt a neutral stand in public, and pass on information related to problem creators to the CTM management.
- Out of the options given below, which one would be the best policy decision by government at the national level? 85
 - A. Asking CM management to pay same wages to both regular and contract workers.
 - B. Income tax raids in offices of contractors under investigation.
 - C. Setting up a new labour welfare office within CM premises.
 - D. Setting up a new committee to make recommendations for changes in labour legislations with an objective to reduce exploitation of contract labourers.
 - E. Use entire government machinery to support CTM, which has an impeccable track record.
- 86 The criminals in the surrounding area often took their cue from the situation in the mill, creating law and order problems outside the mill which would later make it difficult for workers to come to mill safely. Given the circumstances, identify the stakeholder that should be the immediate priority of CTM management.
 - A. Contract labourers who were allegedly beaten by the security guards of the company.
 - B. District administration that is concerned about the spread of violence.
 - COMMS that prefers an immediate settlement of the issue.
 - D Customers who are concerned about prices and regular supplies.
 - E. Contract labourers who are demanding job security and same wages as regular employees.

Answer question nos. 87 to 89 based on the following information

Alex Company has it's office at the third floor of a multi-storied building in Mumbai. There are 5 rooms to be allotted to 5 managers (designated M1 to M5), each of whom will occupy one room. Each room has its own advantages and disadvantages. Som www sakshieducation comser to either the lift or the dining room, while some are more spacious. Each of the five managers was asked to rank the room preferences amongst the rooms 301, 302, 303, 304 and 305. Their preferences were recorded as follows:

Preference	MI	M2	M3	M4	M5
151	302	302	303	302	301
2 nd	303	304	301	305	302
3 rd	304	305	304	304	305
4 th		301	305	303	
5 th			302	I Feel i	- CEL

Some managers did not indicate any preference for some rooms, as they did want to be there under any condition. The company decided to allot rooms to managers in such a way that so that the managers get rooms as per their best preference or close to that.

- 87 How many managers would get their rooms as per their best preference?
 - A. I.
 - B. 2
 - C 3
 - D. 4
 - E. 5
- If manager X gets his/her 1st choice, then his /her preference ranking is 1 and so on. Management decided to allot rooms so that the sum of the preference rankings of all the managers is minimized. What is the total preference ranking for the rooms allotted to all the managers?
 - A. 5
 - B. 6
 - C. 7 Stranger on my view of the
 - II D. 8 West Lies for also contain in will define a mass
 - E. 9
- Suppose that Manager M2 decides not to join the new zonal office and Manager M6 takes his place. Manager M6 has the following preference ranking in decreasing order: 301, 303, 302, 304 in this case what would be the sum of the preference rankings allotted to all the five managers?
 - A. 5
 - B. 6
 - C. 7
 - D. 8
 - E. 9

Answer question nos. 90 to 91 based on the following information bear grown that the grown of the following information bear grown that the grown of the following information bear grown that the grown of the following information bear grown that the grown of the following information bear grown that the grown of the

Every Saturday, the members of Raja Harish Chandra Club meet in the evening. All the members of the club are honest and never lie. Last Saturday, the following conversation was heard at one of the tables with five members sitting around it.

Satya Sadhan: In this club not all members are friends with each other.

Satyabrata: None of the pair of friends in this club has any common friend.

Satyajit: Every pair of members who are not friends has exactly two common friends in this club.

Satya Pramod: There are fewer than 22 people in this club.

- 90 How many members are ther www.sakshieducation.com
 - A. 5
 - B. 7
 - C. 15
 - D. 16 E. 20
- 91 How many friends does Satya Sadhan have in the club?
 - A 2
 - B. 3
 - C. 5
 - D. 7
 - E. 8

Answer question nos. 92 to 95 based on the following information:

In the country of *Gagan*, air travellers can buy their tickets either directly from the airlines or from three websites that are licensed to offer ticketing services online. In *Gagan* most of the commercial transactions are done electronically, and all citizens have an account with its national bank CeeCee. As a result the three websites have become popular and each transaction through these websites carries a surcharge of *Gs.* 250 (*Gs.* refers to Guppes, currency of Gagan). Given below are four post new-year (January 2, 2011 to February 28, 2011) offers from three competing websites:

Cozy_travel Offer: Make a confirmed booking for any service (then ticket, hotel or rail tickets) through Cozy_travel.com from December 5, 2010 to February 8, 2011 and become eligible for two free air tickets (offer is limited to the base fare). Free tickets have to be booked through online requests from January 1, 2011 to February 28, 2011. The request for free tickets should be submitted at least twenty-one days in advance. Free tickets are non amendable (except the passenger name) and cannot be cancelled. Free tickets cannot be exchanged for cash or kind with anybody. Cozy_travel will try its best to secure the free ticket as per the request. However, ticket confirmation is subject to airline schedule and seat availability in airlines selected and finalized by Cozy_travel from specific available airlines.

Cool_yatra Offer: Book any air ticket of any airline on Cool_yatra.com on or after December 21, 2010 and get your next ticket free. Under this offer, only the base fare of free ticket will be refunded by Cool_Yatra.com. Customers will have to bear rest of the charges (other fees and surcharges). The value of base fare will be refunded to passenger on/after March 1 or fifteen days after completion of travel on free ticket (whichever is later). The free ticket can be booked only on GagaAir flights. The free ticket must be booked within fifteen days of booking the original ticket and the travel date of free ticket must be fifteen days after the booking date of free ticket. There must be a seven day gap between the travel date of main/original ticket and the free ticket. The travel date of free ticket should be on or before February 28, 2011. The free tickets cannot be transferred. On cancellation of the original ticket(s), you no longer remain eligible for the free ticket(s).

Easy travel Cash Back Offer: Easy travel offers 25% cash back on all air ticket bookings between December 5, 2010 and February 28, 2011 using CeeCee net banking services or its debit/credit card. The cash back amount will be credited back to customers account within twenty-one days from making the transaction. Maximum cash back during this period is Gs. 400 per person per ticket and total amount that can be claimed by a customer is Gs. 2,400.

get another ticket absolutely free. The free tickets will be issued on AirSpice on its entire network. The offer is valid for sale from January 11, 2011 to January 31, 2011. The free ticket must be booked at least fifteen days prior to the date of travel and need to be completed within the offer period. The promotion code for the free ticket will get activated only seven days after booking the main ticket. Easy_travel will charge a handling fee of Gs. 1000/- per person for any amendments made on main ticket. Cancellations of tickets purchased under this offer are not permitted. The free tickets obtained under this offer can not be exchanged for cash and cannot be re-

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Which offer has got the maximum chance for becoming the most popular among the air travellers of Gagan 3 92 during post new-year period? Among the following options, choose the best offer-explanation combination.

A. Cozy_travel, because the customers will get twice the number of flights and the offer is applicable for all services provided by Cozy_travel.

B. Cozy_travel, because it allows any customer to transfer the free tickets to any one if they are not interested in

C. Ek ke sath ek offer from Easy_travel, because it offers absolutely free tickets to all customers.

- D. Cash Back offers from Easy_travel, because all other offers are restricted either in terms of airlines to choose or the period of offer.
- E. Cozy_travel, because it allows customers to use free tickets even after post new-year period.
- Suppose the offer from Cool_yatra became the most popular, and the other two agencies have sought help from 3 93 business consultants to make their offers more attractive. Identify the best recommendation among the following.
 - A. Recommendation for the Ek Ke Sath Ek Offer of Easy_travel: Negotiate with GagaAir to come up with an offer that provides one free ticket for every main ticket booked in AirSpice.

B. Recommendation for the Cash Back Offer of Easy_travel: Ensure that cash back amount will be credited back to customer's account within fifteen days.

C. Recommendation for the offer from Cozy_travel: Reduce the number of free tickets to one and applicable only for air ticket booking (not for other services), but allow customers to book their free tickets from Cozy_travel.com in GagaAir or comparable airlines without any date restrictions.

D. Recommendation for the Ek Ke Sath Ek Offer of Easy_travel: Negotiate with GagaAir to come up with an offer that provides one free ticket for every main ticket booked in GagaAir and run both offers simultaneously.

- E. Recommendation for the offer from Cozy_travel: Do not allow customers to transfer tickets to others, but disclose that Cozy_travel will consider both GagaAir and AirSpice flights that connect all cities in Gagan for
- Jagan is appearing for MAAT exam on January 2, 2011, in a city which is not his home town and he is yet to book the air ticket to reach his hometown from MAAT centre. Based on his MAAT performance, he is confident about getting an interview call from the institute of his choice located in Akashpur. All institutes associated with MAAT will contact the short-listed candidates within next two weeks with venue details and date of interview. Interviews will be scheduled within fifteen days from the date of announcement of shortlist, and will be held at the respective institutes. Jagan's hometown, MAAT centre, and Akashpur are connected by all airlines and the base fares starts at Gs. 1,000. While visiting Akashpur for the interview, Jagan will have to put up in a hotel. The minimum charge for booking a hotel in Akashpur through Cozy_travel is Gs. 2,400. Equally good hotels which are not listed in the Cozy_travel website charge Gs. 1,000. All the three travel websites assure a minimum of one free air ticket for every booking. If Jagan has no other reason to fly which one of the following offers should Jagan go for?

A. Ek Ke Sath Ek Offer of Easy_travel

B. Get the flight ticket and hotel booking from Cozy_travel. He should use confirmed free ticket for return journey and exchange extra tickets (if any) on barter basis

C. Get the flight fieket through Cozy_travel, and use the second ticket if available for the return journey

D. Get the flight ticket from Cool_yatra

E. Get the flight ticket and hotel booking through Cozy_travel, and use free tickets for return journey

95 Janaki needs to reach Khilli on January 28 to visit her uncle, and will return after fifteen days. Janaki found that 3 the minimum fare for both the to and fro journeys is Gs. 5,000 which includes Gs.1200 base fare. If all airlines connect Janaki's city to Khilli, and all three offers (except the Cash Back Offer) ensure minimum of one free air ticket, which of the following should Janaki opt for?

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- A. Ek Ke Sath Ek Offer of Easy_travel
- B. Cash Back Offer of Easy_travel

- E. Buy air tickets directly from airline websites

Answer question nos. 96 to 98 based on the following information:

On a certain day six passengers from Chennai, Bengaluru, Kochi, Kolkata, Mumbai, and Hyderabad boarded the New Delhi bound Rajdhani Express from TataNagar. The following facts are known about these six passengers:

- The persons from Kochi and Chennai are less than 36 years of age.
- Person Z, the youngest among all is a doctor.
- The oldest person is from Kolkata and his/her profession is same as that of the person who got down at
- The persons from Bengaluru, Chennai, Hyderabad and Mumbai got down at four different stations. The eldest among these four got down at Koderma and the youngest at Kanpur. The person who got down at New Delhi is older than the person who got down at Mughal Sarai.
 - The engineer from Bengaluru is older than the engineer from Chennai.
 - While arranging the teachers in increasing order of age it was observed that the middle person is as old as the engineer from Chennai.
 - Person Y who got down at Mughal Sarai is less than 34 years old.
- The teacher from Kochi is four years older than the 31 year old doctor who is not from Mumbai.
 - In the past, three of the travellers have served in the Indian Army.
- 96 Which of the following options is true?
 - A. The person from Chennai is older than the person from Kochi.
 - B. The oldest teacher is from Mumbai.
 - C. The person from Mumbai is older than at least one of the engineers.
 - D. The person from Kochi got down at Mughal Sarai, and was an engineer.
 - E. The person who got down at New Delhi is older than Y, who in turn is older than the person from Hyderabad.
- All six travellers are working in the same organization for at least one year. The organization recruits two categories of employees - fresh graduates and those who have at least five years of experience in the Indian Army. In both cases a new reerant should be less than 30 years of age. Among the travellers from same profession, those with military background are at least five years older than the travellers who joined as fresh graduates. Identify the travellers who joined the organization as fresh graduate(s):

 - B. The person Y and the traveller from Chennai.
 - C. The person \ and the travellers from Kochi and Hyderabad.
 - D. The travellers from Kochi and Hyderabad.
 - E. The teacher from Mumbai, the traveller from Kochi and the younger engineer.
- If W is neither the youngest nor the oldest among the travellers from her profession, which of the following is 98 true about her?
 - A. She got down at Koderma.
 - B. She is 36 years old.
 - C. She got down at Mughal Sarai.
 - D. She is from Kochi.
 - E. None of the above

Answer question nos. 99 to 101 based on the following information:

Mrs. Sharma has a house which she wants to convert to a hostel and rent it out to students of a nearby women's

college. The house is a two storey building and each floor has eith properly hen one looks from the outside, three rooms are found facing North, www.Sakshieducatto rooms (West and three found facing South. Expecting a certain number of students, Mrs. Sharma wanted to follow certain rules while giving the sixteen rooms on rent:

All sixteen rooms must be occupied.

No room can be occupied by more than three students.

Six rooms facing north is called north wing. Similarly six rooms facing east, west and south are called as east wing, west wing and south wing. Each corner room would be in more than one wing. Each of the wings must have exactly 11 students. The first floor must have twice as many students as the ground floor.

However, Mrs. Sharma found that three fewer students have come to rent the rooms. Still, Mrs. Sharma could manage to allocate the rooms according to the rules.

- How many students turned up for renting the rooms?
 - A. 24

99

- B. 27
- C. 30
- D. 33
- E. None of the above
- If Mrs. Sharma allocates the north-west corner room on the ground floor to 2 students, then the number of students in the corresponding room on the first floor, and the number of students in the middle room in the first floor of the east wing are:
 - A. 2 and 1 respectively
 - B. 3 and 1 respectively
 - C. 3 and 2 respectively
 - D. Both should have 3 students
 - E. Such an arrangement is not possible.
- If all the students that Mrs. Sharma expected initially had come to rent the rooms, and if Mrs. Sharma had allocated the north-west corner room in the ground floor to 1 student, then the number of students in the corresponding room on the first floor, and the number of students in the middle room in the first floor of the east wing would have been:
 - A. 1 and 2 respectively
 - B. 2 and 3 respectively
 - C. 3 and 1 respectively
 - D. Both should have 2 students.
 - E. Such an arrangement is not possible.