

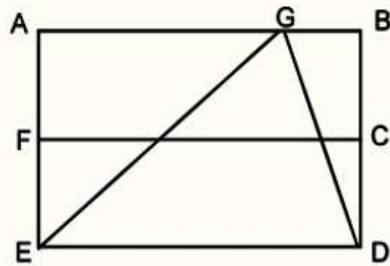
## C-MAT ONLINE TEST SERIES-8

### QUANTITATIVE TECHNIQUE AND DATA INTERPRETATION

**Directions for questions 1 to 9:** Select the correct alternative from the given choices.

- If  $a$  and  $b$  are integers and  $(a + a^2 b^3)$  is odd, then which of the following is even?  
(A)  $a + ab + b$  (B)  $a + b$   
(C)  $b + ab$  (D)  $a^2 + b^2 - ab$
- If an article is sold at ₹800, the gain on it is twice the loss made when it is sold at ₹500. What is the gain or loss per cent if the article is sold at ₹690?  
(A) 12% (B) 15% (C) 10% (D) 20%
- In a class of 500 students, 320 students like maths and 280 students like physics. If 160 students like both physics and maths, then how many students like neither maths nor physics?  
(A) 50 (B) 75 (C) 45 (D) 60
- A square shaped garden has a path of uniform width around it. If the width of the path is 2 m and the ratio of the areas of the garden and the path is 4 : 5, then what is the area of the garden?  
(A) 72 sq. m (B) 144 sq. m  
(C) 64 sq. m (D) 128 sq. m
- The price of a certain number of books is ₹2100. If the price of each book is reduced by ₹5, then 10 more books can be bought for the same total amount. What the original price of each book (in ₹) would be?  
(A) 60 (B) 35 (C) 30 (D) 70

6.

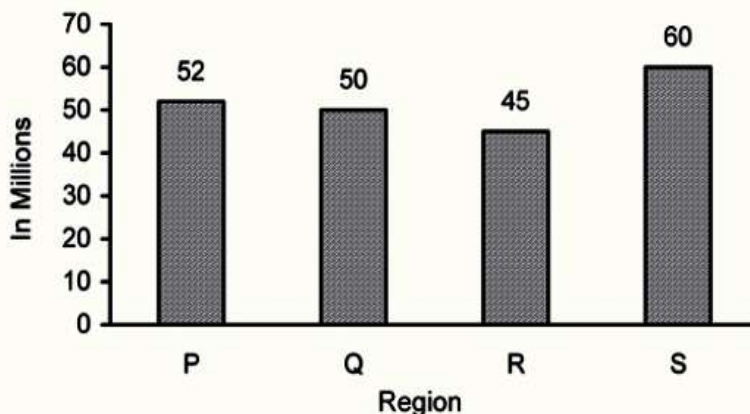


In the above figure, if the area of triangle DEG is equal to that of the rectangle CDEF, which is 36 sq. cm, then the area of the rectangle ABDE is  
(A) 72 sq. cm. (B) 144 sq. cm.  
(C) 36 sq. cm. (D) 54 sq. cm.

- If three different numbers are selected from 1 to 9, then what is the probability that the sum of these numbers is odd?  
(A)  $\frac{10}{21}$  (B)  $\frac{11}{21}$  (C)  $\frac{1}{2}$  (D)  $\frac{2}{3}$
- The marked price of an article is 35% above the cost price. What is the profit percentage if it is sold after giving a discount of 20%?  
(A) 10% (B) 12% (C) 8% (D) 6%
- In a B-school, the ratio of the number of faculty members to that of students is 7 : 88. If 14 more faculty members are recruited, then the ratio becomes 1 : 11. What is the number of students in the B-school?  
(A) 1232 (B) 2464 (C) 924 (D) 616

**Directions for questions 10 and 11:** These questions are based on the graph and the table given below.

As per the National Readership Survey (NRS), the details of the survey report regarding the readership (in million) of four major newspapers in regions P, Q, R and S are as follows:



The following table gives the percentage of reader's for the newspapers in the four regions.

| News Papers \ Region | Region |     |     |     |
|----------------------|--------|-----|-----|-----|
|                      | P      | Q   | R   | S   |
| A                    | 30%    | 25% | 20% | 30% |
| B                    | 40%    | 25% | 30% | 30% |
| C                    | 10%    | 30% | 40% | 20% |
| D                    | 20%    | 20% | 10% | 20% |

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10. What is the ratio of the number of readers who read newspaper A in region Q to the number of readers of newspaper B in region S?  
(A) 11 : 12 (B) 25 : 36  
(C) 18 : 17 (D) None of these

11. What is the total number (in millions) of readers who read newspaper C in all the four regions together?  
(A) 26 (B) 52.5 (C) 48.5 (D) 50.2

**Directions for questions 12 to 21:** Select the correct alternative from the given choices.

12. P's compensation for any month is ₹480 plus 8% of the value of his total sales above ₹3,000 for that month. Q's compensation for any month is 10% of his total sales for that month. For what amount of total monthly sales would both P and Q earn the same compensation?  
(A) ₹15,000 (B) ₹18,000  
(C) ₹12,000 (D) ₹24,000

13. In a distribution, 1, 2, 3, 4 and 5 occur with frequencies 5, 4, 3, 2 and 1 respectively. The mean of the data is  
(A)  $3\frac{1}{4}$  (B)  $4\frac{1}{2}$  (C)  $2\frac{1}{3}$  (D)  $1\frac{2}{5}$

14. N! is defined as the product of the natural numbers from 1 to N. Find the units digit of  $(1!)^2 + (2!)^2 + (3!)^2 + (4!)^2$ .  
(A) 1 (B) 5 (C) 3 (D) 7

15. Two filling pipes X and Y are filling pipes. Both are fitted to a tank. X was first opened for half the time that Y would take to fill the tank. X was then closed Y was then opened for half the time that X would take to fill the tank. The tank must now be  
(A) overflowing  
(B) exactly full  
(C) either (A) or (B)  
(D) neither (A) nor (B)

16. The sides of triangle ABC are a cm, b cm and c cm. The sides of triangle DEF are d cm, e cm and f cm. If  $a^2 + b^2 + c^2 + d^2 + e^2 + f^2 = 2ad + 2be + 2cf$ , then which of the following is true?  
(A) Triangles ABC and DEF are equilateral.  
(B) Triangles ABC and DEF are right angled.  
(C) Triangles ABC and DEF are congruent.  
(D) None of the above.

17. The roots of  $x^2 - ax + a = 0$  are integers. Which of the following always holds true?  
(A) The roots are equal  
(B) The roots are non-negative  
(C) The roots are positive  
(D) Both (A) and (B)

18. Alloy A contains zinc and copper only and alloy B contains zinc and tin only. The ratio of the weights of zinc and copper in A is 3 : 4. The ratio of the weights of zinc and tin in B is 2 : 3. Equal weights of each alloy were mixed to form alloy C. What part of C is zinc?  
(A)  $\frac{23}{70}$  (B)  $\frac{27}{70}$  (C)  $\frac{29}{70}$  (D)  $\frac{31}{70}$

19. Three solid spheres  $S_1$ ,  $S_2$  and  $S_3$  have radii of 3 cm, 4 cm and 5 cm respectively. They are melted to form another solid sphere  $S_4$ . Find the total surface area (in sq.cm) of  $S_4$ .  
(A)  $256\pi$  (B)  $196\pi$  (C)  $144\pi$  (D)  $324\pi$

20. Find the units digit of  $(3^{729} + 2^{243})$ .  
(A) 5 (B) 7 (C) 1 (D) 3
21. In an arithmetic progression, the  $(n + 1)^{\text{th}}$  term is  $m^2$  and its  $(m + 1)^{\text{th}}$  term is  $n^2$ . Find the  $(m + n + 1)^{\text{th}}$  term of the progression.  
(A)  $-mn$  (B)  $-2mn$  (C)  $mn$  (D)  $2mn$

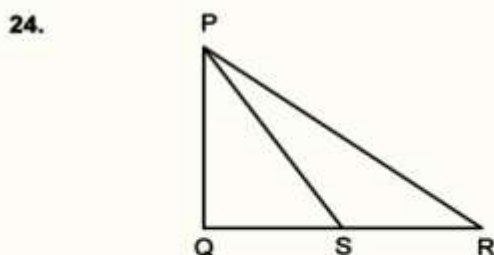
**Directions for question 22:** Each question is followed by two statements, I and II. Indicate your responses based on the following directives.

- Mark (A) if the question can be answered using one of the statements alone, but cannot be answered using the other statement alone.  
Mark (B) if the question can be answered using either statement alone.  
Mark (C) if the question can be answered using I and II together but not using I alone or II alone  
Mark (D) if the question cannot be answered even using I and II together.

22. P, Q and R are natural numbers. Find the value of  $\frac{P+R}{Q}$ .  
I. The arithmetic mean of P and Q is not more than their geometric mean.  
II. The geometric mean of R and Q is not more than their harmonic mean.

**Directions for questions 23 to 25:** Select the correct alternative from the given choices.

23. Which of the following best describes the quadrilateral whose four vertices are  $(-2, 5)$ ,  $(4, 3)$ ,  $(2, -3)$  and  $(-4, -1)$ ?  
(A) Square. (B) Rhombus.  
(C) Rectangle. (D) Parallelogram.



In the above figure,  $\angle PQR = 90^\circ$ . S is a point on QR such that  $QS = 2\sqrt{3}$  cm.  $PQ = 6$  cm and  $PR = 12$  cm. Find  $\angle SPR$ .  
(A)  $20^\circ$  (B)  $30^\circ$  (C)  $45^\circ$  (D)  $60^\circ$

25. If  $p^5 = q^4 = r^3 = s^2 = t$ , find  $\log_r \left( \frac{pqrs}{t} \right)$ .  
(A)  $\frac{17}{60}$  (B)  $\frac{23}{60}$  (C)  $\frac{43}{60}$  (D)  $\frac{7}{60}$

**LOGICAL REASONING**

**Directions for questions 26 to 50:** Select the correct alternative from the given choices.

26. Complete the following series.

4, 8, 24, 120, 840, \_\_\_\_\_  
(A) 9240 (B) 7560 (C) 8160 (D) 7280

27. Complete the following series.

CEG, DIH, FOJ, GUK, HAL, \_\_\_\_\_  
(A) JON (B) JFL (C) IFN (D) JEM

28. Find the wrong number in the series

10, 18, 34, 58, 80, 130, 178,  
(A) 18 (B) 178 (C) 56 (D) 80

29. Complete the following series.

2Y5 : 4W9 :: 3J6 : \_\_\_\_\_  
(A) 4W9 (B) 6L4 (C) 8C1 (D) 6N4

30. Find the odd one out.

(A)  $7 \times 5 \times 3$  (B)  $13 \times 11 \times 9$   
(C)  $29 \times 27 \times 25$  (D)  $19 \times 17 \times 13$

31. The following question is to be answered using the coding and decoding of the letters in the English alphabet as given below.

For  $r = 1, 2, 3, \dots, 13$ , the code for the  $r^{\text{th}}$  letter is  $(4r)^{\text{th}}$  letter.

For  $r = 14, 15, 16, \dots, 26$ , the code for the  $r^{\text{th}}$  letter is  $(2r - 1)^{\text{th}}$  letter.

For decoding, the inverse process is followed.

What is the code for the word GLIMPSE?

(A) BVJEZKT (B) TORNKHV  
(C) BVJZEKT (D) TONRKHV

32. In a certain code language, if the word ENGINEER is coded as GBIRPJJG and the word SCIENTIST is coded as UFKJPNKLV, then how will you code the word PHILOLOGIST?

(A) RYKNQ NQIKUV (B) FPRXDXDNRLN  
(C) RPKXQXQNKLV (D) FJRNDNDIRUN

33. If the fourth day before March 4, 1984 is a Sunday, which day of the week is March 27, 1984?

(A) Thursday (B) Monday  
(C) Friday (D) Saturday

34. A man starts walking from his house and travels 15 km due north. He turns to his right and travels a distance of 15 km. He again turns to his right and stops after 20 km. What is the approximate distance travelled by the person?

(A) 20 km (B) 18 km (C) 16 km (D) 22 km

35. A meets his brother B at a park. B is the father of two children, one boy and one girl, C & D. E is A's father. How is E related to C?

(A) Uncle (B) Father-in-law  
(C) Grandfather (D) Granduncle

36. Six people A, B, C, D, E and F sit in two rows, and three columns one behind the other, not necessarily in the same order. A neither sits in the 1<sup>st</sup> row nor in the 1<sup>st</sup> column but he sits exactly behind D. E sits exactly in front of B but he does not sit in the 3<sup>rd</sup> column. A and B never sits adjacent to each other. If F sits in the 1<sup>st</sup> row, then which three people sit in the 2<sup>nd</sup> row?

(A) B, D and C (B) D, A and C  
(C) E, F and D (D) B, C and A

37. Eight boys – A, B, C, D, E, F, G and H – sit around a circular table, not necessarily in the same order.

- (i) B and E are sitting opposite each other.
- (ii) C and G are sitting adjacent to each other.
- (iii) H, who is sitting to the right of B, is opposite D.
- (iv) A is sitting adjacent to D and he is not sitting opposite G.

Which among the following statements is definitely false?

- (A) A and C are sitting opposite each other.
- (B) G and F are sitting opposite each other.
- (C) H is not sitting opposite D.
- (D) E is not sitting opposing F.

38. Five persons Prachi, Praful, Pranav, Prajog and Preetam are of different designations among Director, Assistant Director, Manager, Assistant Manager and Executive Officer and each is of a different age among 45, 35, 40, 25 and 30 years. Each of them is from a different city from among Bangalore, Mumbai, Delhi, Pune and Chennai. None of these attributes necessarily pertain to the five persons in the same order. Further it is known that

- (i) Prachi is the Director of the company and she is neither the youngest nor her age is 30 years.
- (ii) The Executive Officer is from Chennai and is of age less than 35 years but it is neither Praful nor Prajog.
- (iii) Pranav is the manager and he is from Delhi and exactly two persons are elder to him.
- (iv) The Assistant Director is from Mumbai and is of age more than 35 years and is not Prajog.
- (v) The Eldest person is from Bangalore but it is neither Praful nor Prajog.

What is the age and designation of Praful?

- (A) 35, Assistant Manager
- (B) 25, Executive
- (C) 40, Assistant Director
- (D) 45, Director

39. Each one of the six friends Rohit, Shashank, Saransh, Priyank, Vishy and Suyog bring one of the dishes for their lunch among Pulav, Paratha, Sandwiches, Dahiwada, Dhokla and Idli and each one brings lunch on a different day among Monday to Saturday. Further it is known that

- (i) One boy brings Pulav on Saturday but he is not Vishy.
- (ii) Rohit and Suyog bring Paratha and Sandwich respectively, but before Wednesday.
- (iii) Saransh brings either Idli or Dahiwada on Wednesday.
- (iv) Priyank brings neither Pulav nor Dhokla and he brings his lunch after Thursday.

If Saransh brings Idli for his lunch, then who brings Dahiwada?

- (A) Vishy
- (B) Shashank
- (C) Priyank
- (D) Cannot be determined

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40. Four boys – P, Q, R and S – and four girls – K, L, M and N – sit around a circular table, not necessarily in the same order. Each of these boys and each of these girls are studying a different class among – V, VI, VII and VIII.
- No two boys sit adjacent to each other.
  - Q, the class V boy is sitting opposite to class VIII boy.
  - P, the class VI boy is in between L and N, and is sitting opposite to R.
  - N is sitting to the left of Q and the class VI girl is sitting to the right of class VII boy.
  - Class VIII boy is sitting in between K and Class V girl.
  - No two students of the same class sit together.

Who is sitting opposite the class VIII girl?  
(A) Q (B) K (C) L (D) N

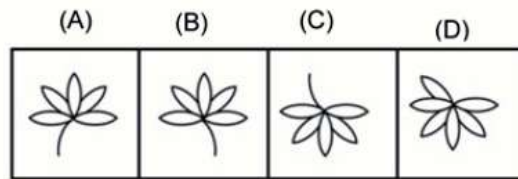
41. The question below has a main statement followed by four statements (a), (b), (c) and (d). From the choices, choose the pair in which the first statement implies the second statement and the two are logically consistent with the main statement. Only if Ravi has a car, can he reach the destination on time.
- Ravi reached the destination on time.
  - Ravi does not have a car.
  - Ravi has a car.
  - Ravi has not reached the destination on time.
- (A) db (B) bd (C) ca (D) ba

42. Given below are two sets of the figures: the problem figure and the answer figures marked (A), (B), (C) and (D). Which figure from (A), (B), (C) and (D) would be the next in the series of the problem figures?

**PROBLEM FIGURES**



**ANSWER FIGURES**



43. The question given below is followed by two statements I and II which provide data relevant to the question. Choose the correct alternative based on the sufficiency of the data to answer the question.

Among A, B, C, D and E, each of a different height, who is the shortest?

- E is shorter than only D and B.
- A is taller than C.

- if statement I alone is sufficient to answer the question but statement II alone is not sufficient to answer the question.
- if statement II alone is sufficient to answer the question but statement I alone is not sufficient to answer the question.
- if the question can be answered by using either statement alone.
- if statements I and II together are sufficient to answer the question, but neither statement alone is sufficient.

44. A large cube is formed using 216 identical smaller cubes and is placed at the corner of a large room. How many such smaller cubes are required to cover the large cube completely, so that the figure obtained is also a cube?  
(A) 296 (B) 343 (C) 125 (D) 127

45. The following question consist of two statements followed by two conclusions marked I and II. Consider the statements to be true, even though they seem to be at variance with the commonly known facts and find out which of the given conclusion(s) logically follow(s) the statements, disregarding the commonly known facts.

Statements:

All flowers are trees.

Some flowers are stems.

Conclusions:

- All stems are trees.

II. Some stems are trees.

- if only I follows.
- if only II follows.
- if neither I nor II follows.
- if both I and II follow.

46. In a survey it is found that 65% of the residents of colony 'X' have two-wheelers, while 45% of the residents have four-wheelers. 20% of the residents do not have any one of these and 70 residents have only two-wheelers.

How many residents do not have any one of these?

- (A) 20 (B) 40 (C) 30 (D) 60

47. If  $a^2 + b^2 + c^2 = ab + bc + ca$ , what is the value of  $(a^2 + b^2 + c^2)^2 - 4abc(a + b + c)$ ?

- (A) 18 (B) -18 (C) -20 (D) 20

48. How many times are the two hands of a clock opposite to each other between 5:00 a.m. and 7:00 a.m. on a particular day?

- (A) 1 (B) 2 (C) 3 (D) 0

49. In country X, diabetes is common among adults over 35 years of age. It is observed that in that age group the consumption of sugar is high. However, in country Y, diabetes is very rare among adults over 35 years of age though the consumption of sugar in that age group is comparable to that in country X. Which of the following, if true, helps to best resolve the paradox?

- There were no signs of diabetes in the lineage of the adults in the study group in country Y.
- There were no signs of diabetes in the lineage of the adults in the study group in country X.
- The adults in the study group in country Y work in more stressful (environments than those in country X).
- The adults in the study group in country X work in more stressful environments than those in country Y.

50. The increased consumption of fish oils in the recent months is a clear indicator that the people in town have begun to lead healthy lifestyles.

Which of the following can be inferred from the information above?

(A) The people in town did not consume fish oils earlier.

(B) Consumption of fish oils may not be the only indicator of leading healthy lifestyles.

(C) Leading a healthy lifestyle is related to a diet with fish oils.

(D) The people in town have increased awareness of minimum nutritional standards.

## LANGUAGE COMPREHENSION

**Directions for question 51:** Pick the word which is farthest in meaning to the given word.

51. ELUCIDATE

(A) impart (B) inflame (C) excite (D) baffle

**Directions for question 52:** Pick the most effective word / pairs of words from the given choices to make the sentence complete and meaningful.

52. When India opened its economy to the global market, many multinational corporations which rushed in to \_\_\_\_\_ middle class consumers found that, contrary to their expectations, they were faced with conservatism and \_\_\_\_\_ to change.

(A) seek . . . defiance

(B) covet . . . unwillingness

(C) patronise . . . reluctance

(D) woo . . . resistance

**Directions for questions 53 and 54:** Read the passage carefully and choose the best answer for questions that follow it.

The lady walked into the bookstore and went straight to the shop assistant. "Please tell me where you keep the 'Chicken Soup' books" she asked, referring to Canfield & Hansen's series of inspirational and motivational books. "You may find them here, madam" said the assistant, leading her to the rack marked 'Culinary'. With a "Hmph!" the lady spun around on her heel and walked out of the store.

53. Before walking out of the store, the lady should have considered -

(A) repeating her request at louder volume.

(B) approaching the owner of the store.

(C) looking for the books in the shelf indicated.

(D) explaining the meaning of 'culinary' to the assistant.

54. It can be understood from the paragraph that the lady entered the store, -

(A) knowing they had the books, but not knowing where they would be.

(B) certain that they would have the books she wanted.

(C) uncertain of whether they had the books she wanted.

(D) knowing that they would not have the books.

**Directions for question 55:** In the following question, four lettered words are given. Three of them belong to the same category. Mark the letter corresponding with the 'odd man' as your answer.

55. (A) propensity

(B) penchant

(C) declivity

(D) predisposition

**Directions for question 56:** An idiom and four possible meanings are given. Identify the meaning of the idiom from among the answer choices and mark its corresponding letter as your answer.

56. To throw cold water on

(A) to discourage

(B) to encourage

(C) to water the plants

(D) to clean the house

**Directions for questions 57 and 58:** Read the passage carefully and choose the best answer for questions that follow it.

The experience of the mysterious is the fundamental emotion which stands at the cradle of true art and true science. He who knows it not and can no longer wonder, no longer feel amazement, is as good as a snuffed-out candle. It was the experience of mystery that engendered religion. A knowledge of the existence of something we cannot penetrate, of the manifestations of the profoundest reason and the most radiant beauty, which are only accessible to our reason in their most elementary forms - it is this knowledge and this emotion that constitute the truly religious attitude; in this sense, and in this alone, I am a deeply religious man. Enough for me the mystery of the eternity of life, and the inkling of the marvellous structure of reality, together with the single-hearted endeavour to comprehend a portion, howsoever tiny, of the reason that manifests itself in nature.

57. All the following can be inferred, from this paragraph except that -

(A) the author is religious in one sense alone.

(B) the author considers that everyone could be or could have been capable of experiencing the sense of mystery.

(C) the author would consider believers in religion as being mentally alive.

(D) the author considers himself capable of experiencing the sense of mystery.

58. We understand, from this paragraph, that the author

(A) does not agree with the way people understand the term 'religious attitude'.

(B) has a parallel definition of the term 'religious attitude'.

(C) agrees with only one definition of the term 'religious attitude'.

(D) recommends a definition of the term 'religious attitude'.

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**Directions for question 59:** In the following question, choose the best way of rewriting the given sentence.

59. Change doesn't come easily to people who have become used to a particular way of life over long periods of time.
- (A) When people have been used to a particular way of life for a long period of time they refuse to change.
- (B) People who become used to a particular way of life over long periods of time find it difficult to change.
- (C) Changing the life of people who are used to a particular lifestyle over long periods of time is not very easy.
- (D) If people get accustomed to a particular lifestyle they do not change for a long period of time.

**Directions for question 60:** A number of sentences are given below, which when properly sequenced, form a coherent paragraph. Each sentence is labelled with a letter. Choose the most logical order of sentences from among the choices given below.

60. a. Long before Rome fell to the invaders from the north, it had been on the verge of collapse from its own internal weaknesses.
- b. But all these superficial attempts to check the decline piled and even worsened conditions and the Roman Empire collapsed.
- c. The emperors tried many expedients to overcome their ever-increasing difficulties.
- d. Its economy once expanding, had shrunk and brought all manner of difficulties in its train.
- e. We have many examples of the collapse of a civilization and perhaps the most notable of these is that of the European classical civilization which ended with the fall of Rome.
- (A) eadcb (B) acbde (C) cadbe (D) ecbad

**Directions for question 61:** In the following question, the word at the top of the table is used in four different ways, A to D. Choose the option in which the usage of the word is incorrect or inappropriate.

61. **MARK**
- (A) He has made a mark at the international level.
- (B) Ram's conclusion was wide off the mark.
- (C) He was marked by his superiors for a promotion.
- (D) It is a general practice with the cloth merchants to mark up the prices.

**Directions for questions 62 and 63:** Read the passage carefully and choose the best answer for questions that follow it.

Modern production technologies, developed in rich countries, are designed for labour forces that are disciplined, conscientious, and engaged. Products flow through many sets of hands, each one capable of destroying most of the value of the final output. Error rates by individual workers must be kept low to allow such processes to succeed. The introduction of such techniques in nineteenth-century England was accompanied by greater attention to worker discipline. Where workers lack these qualities of discipline and engagement, modern production systems are feasible only when little is demanded of each worker, to keep error rates as low as possible. This concept helps

explain the dramatically lower work efforts observed of industrial workers in poor countries. It is cheaper to have frequently idle workers than idle machinery or defective output.

62. All the following could be assumptions in the author's argument except:
- (A) The expense on idle workers is, generally, no more than their remuneration.
- (B) Machinery is, generally, relatively more expensive than workers.
- (C) Mechanisation, generally, is not one of the factors contributing to low productivity.
- (D) It is possible to keep machines in operation even if the handlers are idle.
63. In essence, the writer tells us that
- (A) workers who are disciplined put in more effort than those who lack discipline, but make more errors.
- (B) workers who are disciplined make less errors than those who lack discipline, but the latter put in more effort.
- (C) workers who are disciplined deliver more through their effort than those who lack discipline.
- (D) workers who lack discipline put in less effort than those who are disciplined, but make less errors.

**Directions for question 64:** In the following question, a sentence split into four parts labelled a, b, c and d is given. Rearrange the parts to form the original sentence and select the correct order from among the four choices given below and mark its corresponding letter as your answer.

64. (a) that they have been cheated of the best thing
- (b) young men who have reason to fear that they will be killed in battle
- (c) may justifiably feel bitter in the thought
- (d) that life has to offer
- (A) bcda (B) bcad (C) bdac (D) bacd

**Directions for questions 65 and 66:** Read the passage carefully and choose the best answer for questions that follow it.

Within any society the rich are happier than the poor. However, observed Richard Easterlin in 1974, rapidly rising incomes for everyone in the successful economies since 1950 have not produced greater happiness. It is evident that our happiness depends not on our absolute well-being but instead on how we are doing relative to our reference group. Each individual—by acquiring more income, by buying a larger house, by driving a more elegant car—can make herself happier, but happier only at the expense of those with less income, meaner housing, and junkier cars. Money does buy happiness, but that happiness is transferred from someone else, not added to the common pool.

65. The two underlined portions of the paragraph
- (A) are facts that combine to support a conclusion.
- (B) contradict each other.
- (C) are related in that the first is elaborated on in the second.
- (D) are intermediate understanding used as basis for the conclusion.

66. In saying '...rapidly rising incomes...have not produced greater happiness' the author means that
- increased incomes have not translated to increase in material comforts.
  - increased material comfort has not translated to increased happiness for anyone.
  - increased incomes for some have translated to greater gaps between haves and have-nots.
  - increased income by itself does not translate to greater happiness.

**Directions for question 67:** Four alternative summaries are given below the following text. Choose the option that best captures the essence of the text.

67. Milton's principles, like his practice, make him the great enemy of any pretty or petty aestheticism. Art for art's sake? Art for God's sake. Archibald Macdeish gave aestheticism a witty shape, "Poems should not mean but be." WB. Yeats gave aestheticism a tragic one'. "Words alone are certain good." But words are not enough for Milton, though his are certainly good. His moral and intellectual commitment to literature, his anti-aestheticism, comes more powerfully from one whose poetry lacks none of the subtlety, suppleness, and formality of patterning which aestheticism rightly relishes. So that we can push "our needs" back a stage. Milton ministers superbly to our need to comprehend how variously magnificent and strange the English language is, how finely it can communicate what we wish to say, how dexterously it can help us to discover what we wish to say.
- Milton's mastery of language fortifies not merely our sense of what is beautiful, but our sense of what is humane, unlike other poets, whose interpretation of aestheticism was different from that of Milton's.
  - Milton's mastery of language fortifies merely our sense of what is beautiful, and what is human is left for poets who belong to a different genre altogether.
  - Milton leaves his readers no choice but to commit themselves with their minds and hearts, an act which his moral and emotional dedication to literature demands.
  - There are no passive readers of Milton, we are impelled by him; the impulse may be to attack him, but he certainly cannot be ignored.

**Directions for question 68:** The following question has a paragraph from which the last sentence has been deleted. From the given options, select the one that completes the paragraph in the most appropriate way.

68. The idea seems simple and elegant. Turn off gene expression by blocking the action of the messenger RNA, which provides the essential information for assembling a protein. Antisense therapy, as it is called, could conceivably target a virus or a cancer cell with exquisite precision. But this biotechnology has followed the trend line for much of the rest of the industry. Initial hyperbole was followed by disillusionment and even abandonment of the technology by some developers. \_\_\_\_\_

- There was tremendous optimism among scientists and investors that these were going to be the drugs of the 1990s and the new millennium .
- It became clear very rapidly that things were not that easy.
- Finally, a more balanced sense of realism emerged about future prospects.
- In mid-August the U.S. Food and Drug Administration moved antisense therapeutics a modest step toward fulfilling some of its original promise.

**Directions for questions 69:** A sentence is written in four different forms. Only one of them is grammatically correct. Mark the letter corresponding with the correct sentence as your answer.

69. (A) She was annoyed despite of that she maintained her composure.  
(B) She maintained her composure despite of being annoyed.  
(C) Despite of being annoyed she maintained her composure.  
(D) She maintained her composure despite being annoyed.

**Directions for questions 70 and 71:** Read the passage carefully and choose the best answer for questions that follow it.

If people have fewer children as incomes rise, it implies that children, in economic terms, are "inferior" goods, in the same category as potatoes. Why do people want more housing space, more cars, and more clothes as they get richer, but not more children? One argument is that the demand for children can be analyzed as one would the demand for any commodity, as long as we are careful to note that there are two constraints on consumption. The first is the budget constraint: how much a person has to spend. The second is the time constraint: there are only 24 hours in each day within which to consume things. As incomes have risen and the budget constraint has relaxed, the time constraint on consumption has become ever more important. Richer consumers have switched their consumption patterns away from time-intensive activities toward goods that require less time to consume. Children as a consumption item are time intensive in the extreme. Thus higher-income consumers have switched their consumption away from children to less time-intensive goods: expensive homes, fancy cars, nice clothes.

70. The argument presented in answer to the question asked is that "the demand for children can be analyzed as one would the demand for any commodity". Which of the following statements, if considered, would weaken that argument?
- Time is also an item of consumption that one wants more of.
  - Filial affection is also an item of consumption that one wants more of.
  - Goods themselves are items of consumption that one wants more of.
  - The more one consumes the less the satisfaction that one derives from such consumption.

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71. It can be understood from the context of the para that "inferior goods" refer to
- (A) items that take too much time to consume.
  - (B) items the consumption of which lowers a rich person's status.
  - (C) items that deliver different levels of satisfaction to rich and poor.
  - (D) items the consumption of which raises a poor person's status.

**Directions for question 72:** Complete the analogy.

72. Cymbal : Music :: Bulb:
- (A) Heat
  - (B) Light
  - (C) Ignition
  - (D) Electricity

**Directions for questions 73 and 74:** Read the passage carefully and choose the best answer for questions that follow it.

An outstanding example of the entrepreneurial freedom within the British Empire is the history of the Sassoon family. The founding member of this family was David Sassoon, a Sephardic Jew born to the richest merchant family in Baghdad in 1792. To escape persecution by the Ottomans, he migrated to Bombay in 1832, where he prospered in trade, as the city grew. By 1844 his son Elias had moved to Shanghai in China to pursue the opium trade with India. Elias soon also invested in the China Steam Navigation Company and in undeveloped urban land. Another son, Sassoon David, was sent to London in 1858 to facilitate the growing trade in cotton and cotton goods. By the 1880s the family constituted several global enterprises, investing not only in trading enterprises but also in docks and cotton factories in Bombay and housing developments in Shanghai. By the 1920s they owned more than one-tenth of the Bombay cotton mills, and they were the most innovative of the mill owners there.

73. We understand from the para that Sassoon David was in London to -
- (A) learn about the cotton trade.
  - (B) to help improve the Sassoons' cotton based business.

- (C) to establish cotton trading establishments in Britain.
- (D) to facilitate trade in cotton goods between London and Shanghai.

74. Which one of the following statements cannot be understood from the para?
- The Sassoons -
- (A) were able to see opportunities and make the best of them.
  - (B) were able to make successes of a variety of business ventures.
  - (C) were willing to relocate to further their business interests.
  - (D) were able to integrate with cultures in their adopted lands.

**Directions for question 75:** Select the correct alternative from the given choices.

75. A French ear doctor, Alfred A. Tomatis, proposed, in 1991, that playing Mozart to the unborn would turn a foetus into Einstein. Credulous politicians swallowed his hypothesis. Books were written and films made. The Mozart Effect® became a registered brand. Mercifully, a welter of research in recent years has refuted beyond resurrection the quack Tomatis theory that one composer, and one alone, held the key to infant genius. Millions, nonetheless, cling to the pernicious myth.

Which of the following would the author most likely be a votary of?

- (A) People abandon the theory because it has not been proved that benefits would result from its application.
- (B) People abandon the theory because it has been proved that no benefit accrues from its application.
- (C) People abandon the theory because harm could result from blind faith in it.
- (D) People abandon the theory because music has nothing to do with the development of genius.

**GENERAL AWARENESS**

76. Who created a national record in weightlifting by lifting 238 kilograms under the 56 kilograms category at 10th Youth National Weightlifting Championship 2015?
- (a) MC Bhaskar (b) Vicky Batta (c) Jimjang Deru (d) None of the above
77. Who amongst the following has been selected for the lifetime achievement award to be presented at the Jaipur Film Festival 2015?
- (a) Steven Spielberg (b) Majid Majidi (c) Reza Naji (d) Bahman Ghobadi
78. An ordinance is promulgated in consultation with the President on the advice of the Union Cabinet under which article of the Indian Constitution?
- (a) Article 111 (b) Article 368 (c) Article 123 (d) Article 132
79. Which batsman has the world record for the fastest One Day International century against his name?
- (a) AB De Villiers (b) Corey Anderson (c) Shahid Afridi (d) None of the above
80. Where is India's first "Tribal food festival 2015" being organized?
- (a) Mumbai (b) New delhi (c) Jaipur (d) Varanashi
81. Bhakti Sharma recently made world record in which field?
- (a) Climbing Mount everest (b) Swimming (c) Table tennis (d) IQ test
82. Recently, Who made the fastest ODI century in 31 balls?
- (a) Shahid Afridi (b) Corey Anderson (c) Rohit Sharma (d) AB de villiers
83. Who won women's single title of Sydney International Tennis tournament 2015?
- (a) Maria Sharapova (b) Venus Williams (c) Petra Kvitova (d) Karolina Pliskova
84. Who bagged the FIFA Ballon d'Or award for 2014 in women category?
- (a) Christie Rampone (b) Kristine Lilly (c) Abby Wambach (d) Nadine Kessler
85. Idukki became the first district in the country to have high speed rural broadband network. Idukki is located in which of the following states?



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- (a) Andhra Pradesh (b) Kerala (c) Odisha (d) Telangana
86. Which among the following banks has bagged the "MSME Banking Excellence Awards-2014"?
- (a) Corporation Bank (b) Canara Bank (c) Indian Overseas Bank (d) Andhra Bank
87. Who has been appointed as Nepal's ambassador to India?
- (a) Rukma Shukshere Rana (b) Deep Kumar Upadhyay  
(c) GP Koirala (d) None of the above
88. Which amongst the following countries was ranked the no. 1 destination for future investments by Japan Bank for International Cooperation in January 2015?
- (a) China (b) Singapore (c) India (d) Indonesia
89. Which of the following has/have not been matched correctly in terms of film certification as is done by the Central Board of Film Certification in India?
1. U: Unrestricted Public Exhibition - but with a word of caution that Parental discretion required for children below 12 years  
2. UA: Unrestricted Public Exhibition  
3. A: Restricted to adults  
4. S: Restricted to any special class of persons
- (a) Only 1 (b) Only 1 & 2 (c) Only 1 & 4 (d) 1, 2, 3 & 4
90. Who amongst the following famous Indian RTI activists was conferred with the Giraffe Hero award 2015?
- (a) Shehla Masood (b) Subhash Chandra Agrawal (c) Dr Gaurang Vora (d) None of the above
91. Ghelubhai Naik passed away on 16 January 2015. He was a famous:
- (a) Freedom Fighter (b) Journalist (c) Cinematographer (d) Gujarati Author
92. National Award for e-Governance for the best district-level initiative in Citizen-Centric Service Delivery through ICT was presented to which State?
- (a) Jharkhand (b) Jammu & Kashmir (c) Uttarakhand (d) Rajasthan
93. Union Ministry of Social Justice and Empowerment on 16 January 2015 launched two schemes to support the Scheduled Castes (SC). Which amongst the following are these?
- (a) Venture Capital Fund for SC's & Green Business Scheme  
(b) Green Business Scheme & National Overseas Scholarship for SC  
(c) Venture Capital Fund for SC's & National Overseas Scholarship for SC  
(d) None of the above
94. Recently who resigned as chairperson of censor board of india?
- (a) Sharmila tagore (b) V S Sampath (c) Leela Samson (d) Vijay Anand
95. Recently, higher side boundation on which currency was removed against EURO?
- (a) dollar (b) ruble (c) swiss franc (d) pound
96. Recently, RBI reduced repo rate from 8% to ?
- (a) 7% (b) 6.5% (c) 7.5% (d) 7.75%
97. Who became the first Asian and the youngest girl to swim 1.4 miles in 52 minutes in the Antarctic Ocean at a temperature of one degree Celsius?
- (a) Lynne Cox (b) Bhakti Sharma (c) Lewis Pugh (d) None of the above
98. Which football player from amongst the following has not been shortlisted for the FIFA World Player of the Year title?
- (a) Manuel Neuer (b) Cristiano Ronaldo (c) Lionel Messi (d) Neymar Jr
99. The 12-day talks under the U.N. Framework Convention on Climate Change (UNFCCC) to push for a deal to roll back carbon emissions has begun in which city:
- (a) Lima (b) Paris (c) Copenhagen (d) Rímac
100. The 726-MW gas-based power plant at Palatana is situated in which state?
- (a) Arunachal Pradesh (b) Nagaland (c) Tripura (d) Sikkim