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**DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO**

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**R.C. Reddy IAS Study Circle**  
**TEST BOOKLET**  
**Grand Test-03**  
**CSAT**

**Time Allowed : Two Hours**

**Maximum Marks: 200**

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**INSTRUCTIONS**

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C OR D AS THE CASE MAY BE IN THE APPROPRIATE PLACE IN THE ANSWER SHEET.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. DO NOT write anything else on the Test Booklet. 

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4. This Test Booklet contains 80 items (questions). Each item is printed in English. Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
5. You have to mark all your responses ONLY on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. All items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer Sheet. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong Answers :**  
**THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.**
  - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, one-third (0.33) of the marks assigned to that question will be deducted as penalty.
  - (ii) If a candidate- gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above to that question.
  - (iii) If a question is left blank i.e., no answer is given by the candidate, there will be no penalty for that question.

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(Qs. 1-7) :Read the following passages and answer the questions that follow. Your answer to these questions should be based on.

#### PASSAGE-1

Surveys conducted in many of our primary schools reveal the enormous heterogeneity of the linguistic and cultural background of the children, contrary to the belief that they all come from Hindi speaking backgrounds.

1. In the given context, the enormous heterogeneity of the linguistic and cultural background of the children implies that these children:
  - (a) speak different languages
  - (b) come from various states
  - (c) belong to different classes of society
  - (d) come from different cultural backgrounds

#### PASSAGE-2

In order to boost sales of toys at times other than the peak sale time - Christmas - manufacturers use many techniques. Character toys from movies or TV serials are promoted and all sets are 'collectible' by their young purchasers. Collections, however, never appear to be complete, because as soon as all the characters are acquired, the child then requires the 'car', the 'phone', the 'mobile phone', and even the 'aeroplane' to ensure a happy environment for the toys. Ultimately, the elusive final piece of the series is attained just as the manufacturer and promoter release the next series of 'collectibles'.

2. The prime aim of the manufacturer and promoter is to ensure that :
  - (a) all children should be happy and no child can be happy without a complete series of toys.
  - (b) as soon as one set is complete or almost complete, then the next one arrives on the scene.
  - (c) Children should be encouraged to complete their collections of toys.
  - (d) sales need to be bolstered throughout the year

#### PASSAGE-3

Aspiration is nothing new. Neither is the debate over what the Indian middle class is, what it wants and what it buys. Since the mid - 80s, that has been the focus of the economic policy papers, so called pro and anti-poor budgets and marketing strategies that have successfully broken the barrier of urban selling and reached deeper into rural India with increasing income levels and aspirations.

3. Based on the above passage it can be inferred that
  - (a) The Indian middle class has been the focus of economic policies for a long time.
  - (b) The Indian middle class has graduated from being the 'deprived' middle class to the 'pampered' middle class
  - (c) Both (a) and (b)
  - (d) Neither (a) nor (b)

#### PASSAGE-4

Well, we cannot restrict meaning of life to our limited power of imagination, as life even exists there where we have no reach, even beyond the level of our imagination, even beyond the reach of modern science and scientists. Our knowledge is limited, we do not know everything about our surrounding, we do not know even about things we have with us or even about our own self.

4. Which of the following logically follows the argument given above?
  - (a) Given our limited understanding and abstract circumstances it is not possible to give a universal definition of life, its meaning and its purpose.
  - (b) Our individual meaning of life is unique, even if we are not aware or have identified ways to express it.
  - (c) There are so many things that life consists of and hence meaning of life often changes from time to time.
  - (d) 'Meaning' is a creation of the mind and it is not 'meaning' which is foundation of life.

#### PASSAGE-5

Malnutrition most commonly occurs between the ages of six months and two years. This happens despite the child's food requirements being less than that of an older child. Malnutrition is often attributed to poverty, but it has been found that even in households where adults eat adequate quantities of food, more than 50 percent of children under-five do not consume enough food. The child's dependence on someone else to feed him/her is primarily responsible for the malnutrition. Very often the mother is working and the responsibility of feeding the young child is left to an older sibling. It is therefore crucial to increase awareness regarding the child's food needs and how to satisfy them.

5. According to the author, poverty is not the main cause of malnutrition, but the fact that
  1. taking care of younger ones is not a priority for working mothers.
  2. awareness of nutritional needs is not propagated by the Public Health authorities.

Select the correct answer using the codes given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

**PASSAGE-6**

6. Our school district should not spend its money on the new Verbal Advantage reading program. After all, our students get all the reading practice they need by studying history and science. The argument above depends on which the following assumptions?
- (a) The Verbal Advantage program would not help the students learn history and science.
  - (b) Other reading programs are just as effective but less expensive than the Verbal Advantage program.
  - (c) The Verbal Advantage program involves only reading practice.
  - (d) Teaching students history and science is more important than teaching them reading skills.

**PASSAGE-7**

All good athletes want to win and all athletes who want to win, eat a well-balanced diet; therefore, all athletes who do not eat a well balanced diet are bad athletes.

7. If assumptions of the argument above are true, then which of the following statements must be true?
- (a) No athlete who does not eat a well-balanced diet is a good athlete.
  - (b) No bad athlete wants to win.
  - (c) Every athlete who eats a well-balanced diet is a good athlete.
  - (d) All athletes who want to win are good athletes.
8. Which of the following, if true, would refute the assumptions of the arguments above ?
- (a) Bob, the accountant, eats a well-balanced diet, but he is not a good athlete.
  - (b) Ann wants to win, but she is not a good athlete.
  - (c) All the players on the Burros baseball team eat a well balanced diet.
  - (d) Cindy, the basketball star, does not eat a well-balanced diet, but she is a good athlete.

**Directions**

(Qs. 9 & 10) :Examine the information given below and answer the questions that follow.

The age in (in years) of each of seven sisters - Deepa, Gaya, Mamta, Neeta, Piya, Rita and Sarita is different and is among 4, 5, 6, 7, 8, 9 and 10. Also,

- I. Rita is one year younger than Sarita.
- II. Gaya is three years older than Deepa.
- III. Piya is neither the youngest nor the eldest and Neeta is younger than Deepa.
- IV. Mamta has as many sisters younger to her as elder to her.

9. Who is the youngest person?  
(a) Neeta (b) Rita  
(c) Gaya (d) Deepa
10. Who is the eldest person?  
(a) Neeta (b) Sarita  
(c) Rita (d) Gaya
11. There are some coins and rings of either gold or silver in a box. 60% of the objects are coins, 40% of the rings are of gold and 30% of the coins are of silver. What is the percentage of gold articles?  
(a) 16% (b) 27%  
(c) 58% (d) 70%

(Q. 12) :Examine the information given below and answer the questions that follow. The letters A, B, C, D, E, F and G, not necessarily in that order, stand for seven consecutive integers from 1 to 10.

- I. D is less than A.
  - II. B is the middle term.
  - III. F is as much less than B as C is greater than D.
  - IV. G is greater than F.
12. The greatest possible value of C is how much greater than the smallest possible value of D?  
(a) 2 (b) 3  
(c) 4 (d) 5
13. Raju was to go to the planetarium. So he walked 1.5 km towards east from the place and then turned to right and walked 2.5 kms and then turned towards east walked 1 km. and turned to south and walked 4 kms and reached the place by walking 2.5 kms towards west. What distance is he from the starting point ?  
(a) 6.5 kms (b) 9.5 kms  
(c) 10 kms (d) 9 kms
14. A car travels along the four sides of a square at speeds  $v$ ,  $2v$ ,  $3v$  and  $4v$ , respectively. If  $u$  is the average speed of the car in its travel around the square, then which one of the following is correct ?  
(a)  $u = 2.25 v$  (b)  $u = 3 v$   
(c)  $v < u < 2 v$  (d)  $3 v < u < 4 v$
15. Two vessels are full of milk with milk-water ratio 1 : 3 and 3 : 5 respectively. If both are mixed in the ratio 3 : 2, what is the ratio of milk and water in the new mixture ?  
(a) 4 : 15 (b) 3 : 7  
(c) 6 : 7 (d) 3 : 10
16. Anand and Meenu are husband and wife. They have two daughters Riya and Diya. Riya was born when Meenu was 18 yr. Diya was born when Anand was 27 yr. old. At present, sum of ages of Riya and Diya is equal to Meenu's present age and sum of ages of all the members of the family is 117 yr. Find the present age of Riya?

- (a) 12 yr                      (b) 15 yr  
(c) 18 yr                      (d) None of these
17. A zookeeper counted the heads of the animals in a zoo and found it is 60. When he counted the legs of the animals he found it is 200. If the zoo had either peacocks or tigers, how many tigers were there in the zoo?  
(a) 30                              (b) 45  
(c) 20                              (d) 40
18. In a cricket match, the number of runs scored by any team is equal to power of the number of batsmen playing in the team. Six batsmen played in team A and eleven batsmen played in team B. If team A won by 95 runs, then find the runs scored by team A.  
(a) 216                              (b) 220  
(c) 210                              (d) 230
19. Examine the following statement Poverty is increasing because the people, who are deciding how to tackle it, know absolutely nothing about the poor. Which of the following courses of action logically follows for pursuing?  
(a) The decision makes should go to the grass root levels.  
(b) The decision makers should come from the poorer sections of the society.  
(c) A new set of decision makers should replace the existing ones.  
(d) All of the above
20. Examine the following statement Market trends are changing continuously and with increasing competitiveness, the consumer's demands with respect to the prices and quality are gradually increasing.  
Assumptions  
I. The consumers did not care for the prices and quality earlier.  
II. Market competitiveness is not favourable for the consumers.  
(a) Only assumption I is implicit  
(b) Only assumption II is implicit  
(c) Either assumption I or II is implicit  
(d) Neither assumption I nor II is implicit

(Qs. 21-28) : Read the following passages and answer the questions that follow. Your answer to these questions should be used based on the passages only.

#### PASSAGE-1

But because the idea of private property has been permitted to override, with its selfishness, the common good of humanity, it does not follow that there are not limits within which that idea can function for the general convenience and advantage.

21. Which of the following is most likely to weaken the argument?  
(a) All the people of the society should progress at an equitable rate and there should be no disparities and private property does bring about a tremendous disparity.  
(b) One should not strive for the common good of humanity at all, instead one should be concerned with maximizing one's own wealth.  
(c) One should learn from the experiences of former communist nations and should not repeat their mistakes at all.  
(d) Even prosperous capitalist countries like the USA have their share of social problems.

#### PASSAGE-2

The benefits of psychotherapy result not only from the advice the therapist gives but also from the supportive relationship offered to the patient by the therapist. Even though this relationship may cost large amounts of money over many years, most patients interpret the therapist's concern for them as genuine and identify this caring relationship as the primary factor in improving their mental health. However, recent studies have found that only eight percent of therapist/patient relationships continue after the patient terminates formal paid visits.

22. Which of the following is in accordance with the ideas contained in the passage? Choose the best option.  
(a) Therapists are equally concerned with money making and their patients well-being.  
(b) Reading published articles of reputed psychotherapists will hardly be beneficial.  
(c) Therapists can always treat mental illness without the use of prescription drugs.  
(d) Therapists who terminate relationship are likely to improve mental health of their patients.

#### PASSAGE-3

Local communities have often come in conflict with agents trying to exploit resources, at a faster pace for an expanding commercial industrial economy. More often than not, such agents of resource intensification are given preferential treatment by the state, through the grant of generous long leases over mineral or fish stocks, for example, or the provision of raw material at an enormously subsidized price. With the injustice so compounded, local communities at the receiving end of this process, have no resource except direct action, resisting both the state and outside exploiters through a variety of protest techniques.

These struggles might perhaps be seen as a manifestation of a new kind of class conflict.

23. Choose the options that captures the essence of the passage.

- (a) Preferential treatment given by the state to agents of resource-intensification for an expanding commercial industrial economy exacerbates injustice to local communities and leads to direct protests from them, resulting in a new type of class conflict.
- (b) The grant of long leases to agents of resource intensification for an expanding commercial industrial economy leads to direct protests from the local community, which sees it as unfair.
- (c) A new kind of class conflict arises from preferential treatment given to agents of resource intensification by the state, which the local community sees as unfair.
- (d) Local communities have no option but to protest against agents of resource-intensification and create a new type of class conflict when they are given raw material at subsidized prices for an expanding commercial industrial economy.

#### PASSAGE-4

Ecological research over the last quarter of the century has established the deleterious effects of habitat fragmentation due to mining, highways and such other intrusions on forests. When a large block of forests gets fragmented into smaller bits, the edges of all these bits come into contact with human activities resulting in the degradation of the entire forests. Continuity of forested landscapes and corridors gets disrupted affecting several extinction-prone species of wildlife. Habitat fragmentation is therefore considered as the most serious threat to biodiversity conservation. Ad hoc grants of forest lands to mining companies coupled with rampant illegal mining is aggravating this threat.

24. What is the central focus of this passage ?

- (a) Illegal mining in forests
- (b) Extinction of wildlife
- (c) Conservation of nature
- (d) Disruption of habitat

25. What is the purpose of maintaining the continuity of forested landscapes and corridors?

- 1. Preservation of biodiversity.
- 2. Management of mineral resources.
- 3. Grant of forest lands for human activities.

Select the correct answer using the codes given below.

- (a) 1 only
- (b) 1 and 2
- (c) 2 and 3
- (d) 1, 2 and 3

#### PASSAGE-5

India's sub standard performance in the farm sector are inadequate since India is placed favourably when compared to China in terms of quantity and quality of arable land, average farm size and farm mechanization. The reasons for China having outperformed India are technological improvements accruing from research and development, investment in rural infrastructure research and an increasingly liberalized agricultural policy moving away from self-sufficiency to leveraging the competitive advantage with a focus on "efficiency as much as equity." Investment in rural infrastructure, roads, storage facilities, marketing facilities are also crucial but government support in India has mainly been through subsidies, not investment. Subsidies are against the market reforms and distort the market as well as reduce resource efficiency. In contrast, to the large number of applications for registration of new plant varieties in China over the past few years, data reveals that despite India having the largest number of agricultural scientists in the world, India's current research track is abysmal, equivalent to what China achieved in the 1980s.

26. Which of the following is/are area/s in which China has outdone India?

- I. Development of urban infrastructure.
- II. Activities allied infrastructure.
- III. Agriculture.

- (a) Only I
- (b) I and III
- (c) All three
- (d) Only III

27. The advantage that India holds over China with respect to the agricultural sector is

- (a) lack of diversification of the agricultural sector
- (b) superior technology and farming practices
- (c) greater prevalence of farm mechanization
- (d) abundant research in agriculture

28. What arguments has been posed against implementation of subsidies?

- I. Subsidies sacrifice equity for efficiency.
- II. Subsidies hamper efficient resource utilization.
- III. Subsidies distort the market.

- (a) I and II
- (b) Only II
- (c) II and III
- (d) Only I

29. To an examination, a candidate needs 40% marks. All questions carry equal marks. A candidate just passed by getting 10 answers correct by attempting 15 of the total questions. How many questions are there in the examination?

- (a) 25
- (b) 30
- (c) 40
- (d) 45

30. The following table shows the percent change in the amount of sales (in rupees) at different retail stores in a given neighborhood market in the period 1993 to 1995.

Retail store Percent change

1993 to 1994 1994 to 1995

Anshu + 10 - 10

Borna - 20 + 9

Calpo + 5 + 12

Dilip - 7 - 15

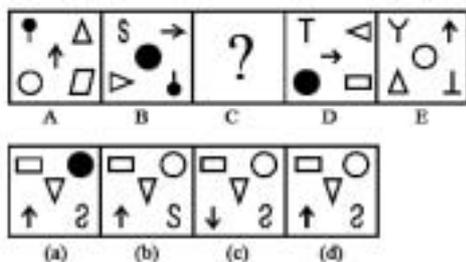
Elegant + 17 - 8

If the sales at Anshu store amounted to ` 8 lakh in 1993, then the amount of sales (in lakh rupees) at that store in 1995 was

- (a) 7.92 (b) 8.00  
(c) 8.80 (d) 9.68

(Qs. 31) : In the following question, there is a set of four figures labelled A, B, C, D and E called the Problem Set followed by a set of four other figure labelled a, b, c and d called the Answer Set. Fig (C) contains a question mark. Select a suitable figure from the Answer Set which will substitute this question mark so that a series is formed by the figures A, B, C, D and E taken in order. The number of the selected figure to the answer.

31.



32. What is the missing number on place of '?' in given below ?



- (a) 22 (b) 33  
(c) 11 (d) 44

33. What is the missing number 'X' if the series 8, 43, 11, 41, \_\_X\_\_, 39, 17 ?

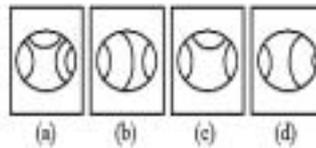
- (a) 12 (b) 14  
(c) 16 (d) None of these

34. Among the four answer figures, which figure can be formed from the cut - pieces given below in the question figure ?

Question figure :



Answer figures :



35. 'X' is twice as old as 'Y' 3 years ago, when 'X' was as old as 'Y' today. If the difference between their ages as present is 3 years, how old is 'X' at present?

- (a) 18 years (b) 12 years  
(c) 9 years (d) 8 years

36. A candidate attempted 12 questions and secured full marks in all of them. If he obtained 60% in the test and all questions carried equal marks, then what is the number of questions in the test?

- (a) 36 (b) 30  
(c) 25 (d) 20

(Q.37) : Examine the information given below and answer the question that follow :

A railway station, R, located in India has only two platforms, one for trains going from North to South and other those going from South to North. Details about the six daily trains - Shatabdi, Simadri, Gautami, Godavari, Rajdhani and Ratnachal at 'R' are known. These are the only trains that stop at station R, while going from South to North.

- I. Shatabdi is either the first or the last train to arrive at station R.
- II. No two trains, having their names starting with the same alphabet, arrive immediately one after the other.
- III. The name of the train that arrives just before Simadri has the same starting alphabet as that of the train that arrives immediately after Simadri.
- IV. Rajdhani Express comes immediately after Shatabdi Express.

37. Which is the last train to arrive at Station R?

- (a) Shatabdi (b) Godavari  
(c) Rajdhani (d) Ratnachal

38. Examine the following statement Should all the profit making public sector units be sold to private companies?

Four arguments numbered I, II, III and IV are given. On the basis of the information, answer the question.

### Arguments

- I. Yes. This will help the government to augment its resources for implementing the development programmes.
  - II. No. The private companies will not be able to run these units effectively.
  - III. Yes. There will be a significant improvement in the quality of services.
  - IV. No. There would not be job security for the employees at all the levels.
- (a) II and III are strong  
(b) All are strong  
(c) III and IV are strong  
(d) I, II and III are strong
39. Examine the following statement: Some engineers are bureaucrats. Some bureaucrats are honest. All honest persons are truthful. Which of the following conclusions follow(s) the above statements?
- I. All honest persons are kind.
  - II. Some bureaucrats are truthful.
  - III. Some bureaucrats are kind.
- (a) All follow  
(b) I follows  
(c) II and III follow  
(d) I and II follow
40. Examine the following statement: This book is so prepared that even a layman can study CSAT in the absence of a teacher. Three assumptions are implicit in the statement.

### Assumptions

- I. A layman wishes to study science without a teacher.
  - II. A teacher may not always be available to teach science.
  - III. A layman generally finds it difficult to learn science on his own.
- (a) I and II are implicit  
(b) II and III are implicit  
(c) I and III are implicit  
(d) All are implicit

(Qs. 41-46) : Read the following passages and answer the questions that follow:

#### PASSAGE-1

Whenever a major airplane accident occurs, there is a dramatic increase in the number of airplane mishaps reported in the media, a phenomenon that may last for as long as a few months after the accident. Airline officials assert that the publicity given the gruesomeness of major airplane accidents focuses media attention on the airline industry, and the increase in the number of reported accidents is caused by an increase in the number of news sources covering airline accidents, not by an increase in the number of accidents.

41. Which of the following, if true, would seriously weaken the assertions of the airline officials?
- (a) Airline accidents tend to occur far more often during certain peak travel months
  - (b) The publicity surrounding airline accidents is largely limited to the country in which the crash occurred
  - (c) News organisations do not have any guidelines to help them decide how severe an accident is
  - (d) Airplane accidents receive coverage by news sources only when the news sources find it advantageous to do so

#### PASSAGE-2

Various studies have shown that our forested and hilly regions, in general, are as diverse as where biodiversity is high. In places where poverty appears to be high, and these same areas are also the ones where educational performance seems to be poor. Therefore, it may be surmised that, even disregarding poverty status, richness in biodiversity goes hand in hand with educational backwardness.

42. Which one of the following statements, if true, can be said to best provide supporting evidence for the surmise mentioned in the passage?
- (a) In regions where there is little variety in flora, educational performance is seen to be as good as in regions with high variety in flora, when poverty levels are high.
  - (b) Regions which show high biodiversity also exhibit poor educational performance, at low levels of poverty.
  - (c) Regions which show high biodiversity reveal high levels of poverty and poor educational performance.
  - (d) In regions where there is low biodiversity, at all levels of poverty, educational performance is seen to be good.

#### PASSAGE-3

At the turn of the 20th century, a major educational curriculum redesign was initiated following the change of political regime at the centre. The subsequent development of college programmes came under wide public scrutiny and debate. Issues of equity, inclusion and exclusion, learner diversity, religious identity and communalism gained considerable importance in the curriculum debates that followed. The curriculum failed to address the quality of education that students of underprivileged and marginalized groups experience. Several critics described the revised curriculum as a retrogressive step in education that sought to impose the religious agenda in the garb of a national identity. The subsequent change of national government in 2004 led to the curricu-

lum review in 2005, underlining a new political interest in the role of education in national development, its role in social transformation and mobilization directed specifically at questions of caste and gender asymmetry and minority empowerment. Deeper than these politically driven minority initiatives, the professional need for curriculum review emerges from the long ossification of a national education system that continues to view faculty as "dispensers of information" and students as "passive recipients" of an "education" sought to be delivered in four-walled classrooms with little scope to develop critical thinking and understanding.

43. Development of text books generated public debate on many issues except.
- Making the curriculum student-centred.
  - Using teaching community as an agency to bring change.
- (a) Only I (b) Only II  
(c) Both I and II (d) None of these
44. What hampers the critical thinking ability of college going students?
- Lack of political will to develop these abilities
  - Lack of proper tests of critical thinking ability
  - Absence of focus while designing curriculum framework
  - Ignoring the role of faculty and the students
45. Revamping of the text material was the main focus in
- early eighties
  - late nineties
  - 21st century
  - evolving curriculum framework
46. Which of the following has been identified by the author as one of the factors to facilitate social transformation?
- A committed political ideology
  - Support of the well-framed curriculum
  - A strong administration system
  - Carefully planned
47. An accurate clock shows 10 o'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?
- 120 (b) 150
  - 90 (d) 180
48. A person P started a business with a capital of 2525 and another person Q joined P after some months with a capital of 1200. Out of the total annual profit of 1644, P's share was 1212. When did Q join as partners?
- After 2 months
  - After 3 months
  - After 4 months
  - After 5 months
49. A car travels the first one-third of a certain distance with a speed of 10 km/hr, the next one-third distance with a speed of 20 km/hr and the last one-third distance with a speed of 60 km/hr. The average speed of the car for the whole journey is
- 18 km/hr (b) 24 km/hr
  - 30 km/hr (d) 36 km/hr
50. A person sold an article for ₹ 136 and got 15% loss. Had he sold it for ₹ x, he would have got a profit of 15%. Which one of the following is correct?
- $190 < x < 200$
  - $180 < x < 190$
  - $170 < x < 180$
  - $160 < x < 170$
51. Prabhakar is a state level cricket player. His average runs per wicket were 11.5 and in an inning, he took 5 wickets for 22 runs and his new average became 11 runs per wicket. How many wickets had he taken before this innings?
- 22 (b) 33
  - 66 (d) 132
52. Probability that Ram can solve a problem is  $\frac{1}{2}$  and the probability that Shyam can solve a problem is  $\frac{2}{3}$ . If both attempt a question, the probability that the problem is solved is
- $\frac{1}{2}$  (b)  $\frac{1}{6}$
  - $\frac{2}{3}$  (d)  $\frac{5}{6}$
53. In an examination, 52% candidates failed in English and 42% failed in Mathematics. If 17% candidates failed in both English and Mathematics, what percentage of candidates passed in both the subjects?
- 18% (b) 21%
  - 23% (d) 25%
- (Q. 54) : Examine the information given below and answer the question that follow :
- There are two married couples in a family of six persons - A, B, C, D, E and F. Each person in the family has different profession among Engineer, Officer, Professor, Chemist, Accountant and Technician. A is an engineer who is married to a lady Professor. B, the officer, is the daughter-in-law of A. C is a Technician and the brother of D. C is also the son of E, who is a Chemist.
54. How is E related to the accountant?
- Father
  - Son
  - Daughter
  - Cannot be determined

55. In a chess competition involving some boys and girls of a school, every student had to play exactly one game with every other student. It was found that in 45 games both the players were girls and in 190 games both were boys. The number of games in which one player was a boy and the other was a girl is
- (a) 200 (b) 216  
(c) 235 (d) 256
56. There are 6 tasks and 6 persons. Task 1 cannot be assigned either to person 1 or to person 2; task 2 must be assigned to either person 3 or person 4. Every person is to be assigned one task. In how many ways can the assignment be done?
- (a) 144 (b) 180  
(c) 192 (d) 360
- (Q.57) : Examine the information given below and answer the questions that follow:
- I. Kush, Ganesh and Hari are intelligent.  
II. Kush, Ram and Jivan are hard working.  
III. Ram, Hari and Jivan are honest.  
IV. Kush, Ganesh and Jivan are ambitious.
57. Which of the following persons is neither hardworking nor ambitious?
- (a) Kush (b) Ganesh  
(c) Hari (d) Ram
58. A vessel is filled with liquid, 4 parts of which are water and 7 parts syrup. How much of the mixture must be drawn off and replaced with water so that the mixture may be half water and half syrup?
- (a)  $14/33$  (b)  $33/14$   
(c)  $3/14$  (d)  $1/11$
59. A person selling an article for ₹ 96 finds that his loss percent is one-fourth of the amount of rupees that he paid for the article. What can be the cost price?
- (a) Only ₹ 160  
(b) Only ₹ 240  
(c) Either ₹ 160 or ₹ 240  
(d) Neither ₹ 160 nor ₹ 240
60. In an examination, 70% of the students passed in the Paper I, and 60% of the students passed in the Paper II. 15% of the students failed in both the papers while 270 students passed in both the papers. What is the total number of students?
- (a) 600 (b) 580  
(c) 560 (d) 540

### Directions

(Qs. 61 & 62): Read the following passage and answer the questions that follow the passage. Your answers to these questions should be based on the passage only.

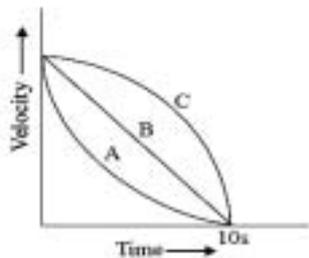
### PASSAGE

Successfully adjusting to one's environment leads to happiness. War at a universal level destroys the weaker people, who are the most unable to adjust to their environment. Thus, war at the universal level puts weaklings out of their misery and allows more space for their predators to enjoy life in a better manner. As those actions have to be performed, which maximize the level of happiness of the greatest number, war at a universal level should take place.

61. What response would the author of the above discussion come up with, in the case of the / objection that the weaklings far exceed strong people?
- I. He would respond with the statement that the person making the objection is a weakling.  
II. He would respond by saying that weaklings will be miserable no matter what happens.  
III. He would respond with the statement that the strong would be frustrated if the weaklings are destroyed.
- (a) Only I (b) Only II  
(c) Only III (d) II and III
62. The author's discussion would be greatly influenced if he agreed to which of the following?
- I. Technology could change the environment.  
II. War at the universal level would be an integral part of the environment.  
III. It is possible for the strong to survive without suppressing the weak.
- (a) Only I (b) Only II  
(c) Only III (d) I and III
63. Many patients suffering from malaria were administered antimalarial drug for a week. Some of them did not respond to the traditional drug and their condition deteriorated after four days. Which of the following would weaken the findings mentioned in the above statement?
- (a) Those patients who responded to the traditional drug and recovered were needed to be given additional doses as they reported relapse of symptoms.  
(b) The mosquitoes carrying malaria are found to be resistant to traditional malarial drugs.  
(c) Majority of the patients suffering from malaria responded well to the traditional malarial drugs and recovered from the illness.  
(d) Many drug companies have stopped manufacturing traditional malarial drugs.

64. "Monetary loss can be made good but any loss to the country's culture can never be filled." - A minister of country X if the above statement is true, then which of the following has been assumed in the statement?
- People hanker after money ignoring cultural values.
  - One can't bear monetary loss.
  - Traditional culture in country X is degrading day by day.
  - Preserving culture is our utmost duty.
65. When income tax rates are reduced, there is an increase in taxable income, and an increase in taxable income results in increased total income tax revenues for the government. Which of the following is analogous to the argument above in terms of its logical features?
- If the city municipal corporation increases taxes on property by 1%, it will raise tax revenues, which can further be used for garbage disposal management.
  - The Leader of the opposition at the Parliament argued that a restriction on the import of Chinese manufacturing products will increase the sales of Indian manufacturing products.
  - An advertisement using more than 25 words of text will not be read, and when an advertisement is not read, the product is not sold. Therefore, the fewer words an advertisement has, the more effective it will be in promoting its product.
  - The balance of payment of a country will improve if the country reduces its imports and increases exports.
66. A supplement of Vitamin A and Zinc may boost children's resistance to Malaria (Observation from one experiment conducted last year in a village 'X'). Which of the following, if true, would weaken the statement?
- No adult in village 'X' has fallen sick because of Malaria.
  - Last three years there is hardly any case of child affected by Malaria from village 'X'.
  - The experiment with Vitamin A and Zinc is being duplicated in other nearby cities adjacent to village 'X'.
  - Vitamin A and Zinc are readily available in village 'X'.
67. Pipe A can fill a tank in 10 min and pipe B can empty it in 15 min. If both the pipes are opened in an empty tank, the time taken to make it full is
- 20 min
  - 25 min
  - 30 min
  - None of these
68. A square is divided into 9 identical smaller squares. Six identical balls are to be placed in these smaller squares such that each of the three rows gets at least one ball (one ball in one square only). In how many different ways can this be done?
- 27
  - 36
  - 54
  - 81
69. There are 10 identical coins and each one of them has 'H' engraved on its one face and 'T' engraved on its other face. These 10 coins are lying on a table and each one of them has 'H' face as the upper face. In one attempt, exactly four (neither more nor less) coins can be turned upside down. What is the minimum total number of attempts in which the 'T' faces of all the 10 coins can be brought to be the upper faces?
- 4
  - 7
  - 8
  - Not possible
70. Each of two women and three men is to occupy one chair out of eight chairs, each of which numbered from 1 to 8. First, women are to occupy any two chairs from those numbered 1 to 4; and then the three men would occupy any three chairs out of the remaining six chairs. What is the maximum number of different ways in which this can be done?
- 40
  - 132
  - 1440
  - 3660
71. Six identical cards are placed on a table. Each card has number '1' marked on one side and number '2' marked on its other side. All the six cards are placed in such a manner that the number '1' is on the upper side. In one try, exactly four (neither more nor less) cards are turned upside down. In how many least number of tries can the cards be turned upside down such that all the six cards show number '2' on the upper side?
- 3
  - 5
  - 7
  - This cannot be achieved
72. Assume that
- the hour and minute hands of a clock move without jerking.
  - the clock shows a time between 8 o'clock and 9 o'clock.
  - the two hands of the clock are one above the other.
- After how many minutes (nearest integer) will the two hands be again lying one above the other?
- 60
  - 62
  - 65
  - 67

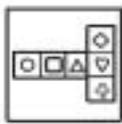
(Q.73) :Examine the information carefully and answer the question that follow. The graphs below show the velocity of 3 cars- A, B and C changing with time.



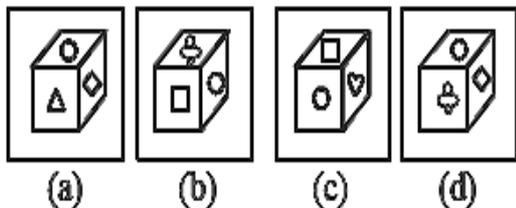
73. Which car will travel the least distance ?
- A
  - B
  - C
  - All will travel equal distance

74. Choose the cube that will be formed by folding the sheet of paper shown in the problem figure.

**Question figure :**



**Answer figures :**



75. Examine the following statement A large majority of the work force in India is unorganised. Most of them earn either the minimum or uncertain wages while others are engaged in sundry jobs. Two conclusions numbered I and II, are given below. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement.

- The workers in the organised sector get better facilities and stay longer in their jobs.
- Some workers in the unorganised sector of the workforce have a regular and fixed income.

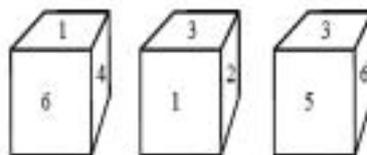
- Only conclusion I follows
- Only conclusion II follows
- Either I or II follows
- Both I and II follow

76. Examine the following arguments All graduates are students. All students are laborious. Some laborious are successful. Some successful persons are honest. Which of the following conclusions follow(s) the above argument?

**Conclusions**

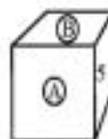
- Some laborious are graduates.
  - Some honest are laborious.
  - Some successful persons are students.
- Only I follows
  - I and II follow
  - I and III follow
  - All follow

77. A cube has six numbers marked 1, 2, 3, 4, 5 and 6 on its faces. Three views of the cube are shown below:



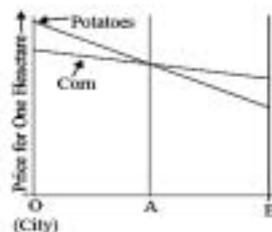
What possible numbers can exist on the two faces marked

(A) and (B), respectively on the cube?



- 2 and 3
- 6 and 1
- 1 and 4
- 3 and 1

78. In the outskirts of a city, two crops corn and potatoes are to be grown. The curve given below represents 'Price earned by farmer for one hectare' on one axis and 'distance from city' on another axis. Which of the following statement / statements is / are correct.



- (a) Potatoes are more profitably grown between O and A
- (b) Corn is more profitably grown between A and B
- (c) Potatoes are less beneficial, if grown between A and B
- (d) All of the above

(Q.79) :Examine the information and answer the question that follow.

Foods	Percentage of Protein	Percentage of Carbohydrate	Percentage of Fat	Cost per 100 g (in ₹)
Food A	10	20	30	1.80
Food B	20	15	10	3.00
Food C	20	10	40	2.75

79. If you purchase x gram of Food A, y of Food B and z of FoodC, the cost will be

(a)  $\left(\frac{9}{5}x + 3y + \frac{11}{4}z\right)$  paise

(b)  $\left(\frac{9}{5}x + 3y + \frac{11}{4}z\right)$

(c)  $(1.8x + 3z + 2.75y)$

(d)  $(3y + 1.8z + 2.75x)$  paise

(Q.80) :Examine the information carefully and answer the questions that follow.A, B, C, D, E, F, G and H are sitting around a circular table facing the centre. D is the neighbor of A but not of H. B is the neighbour of F and fourth to the left of D. E is the neighbour of H and third to the right of F. C is neither the neighbour of A nor of G.

80. Which of the following is correct?

- (a) D is to be immediate left of G.
- (b) A is between C and D.
- (c) F is fourth to the right of D.
- (d) None of the above

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