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T.B.C: P-SIA-D-UPGI

Serial: 737246

PRESTORMING™

CSAT

TEST BOOKLET

A

Mock Test 3

Time Allowed: Two Hours   *Maximum Marks: 200*

I N S T R U C T I O N S

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 BOOK 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.

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 ONLYon the separate Answer Sheet provided. See directions in the Answer Sheet.

6. All items carry equal marks.

7. Sooner than 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 (0.83)** 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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Directions for the following 4 (Four) items: Read the following 3 Passages and answer the items that follow. Your answers to these items should be based on the passages only.

PASSAGE 1

A car magazine report says: 'The average mileage in the small car market was found to be 18 kilometres per litre. The average mileage was calculated by taking cars of all manufacturers in the segment, filling them with 10 litres of fuel and driving them along the Mumbai-Pune expressway. However, for the Fathom brand, the mileage was 22 kilometres per litre. Clearly, if you want to buy a new car, you should buy Fathom cars.'

1. With reference to the above passage, which of the following is the **most valid assumption**?

   (a) The reader is interested in buying a car

   (b) Mileage is the sole consideration for the readers of the magazine who intend to buy a car

   (c) No other car in the segment had a mileage better than the Fathom's mileage

   (d) The readers might also look for other factors such as comfort, digital fittings, etc.

PASSAGE 2

Most firms consider expert individuals to be too elitist, temperamental, egocentric, and difficult to work with. Force such people to collaborate on a high stakes project and they just might come to fisticuffs. Even the very notion of managing such a group seems unimaginable.

So most organisation will fall into default mode, setting up project teams of people who get along nicely.

2. Which one of the following is the **most logical and rational corollary** to the above passage?

   (a) The result however is disastrous

   (b) The result is mediocrity

   (c) The result is the creation of experts who then become elitists

   (d) Naturally, they drive innovations

PASSAGE 3

There has been a high incidence of traffic accident related deaths last year. Hence, the chairman of the CBDT suggested that GST on cars and automobiles should not be reduced as planned by the government.

3. Which of the following assumption is made by chairman of CBDT?

   (a) Keeping existing tax rate or increased taxes deter consumers from buying new cars.

   (b) Cars on which higher tax is imposed can't be driven rashly

   (c) GST council may raise objection to the recommendation of CBDT chairman

   (d) Government is planning to reduce the GST rate on cars

4. Which of the above statements weakens the argument above?

(a) Although there was a high incidence of traffic accident related deaths last year, it was not significantly higher than the previous year

(b) Compulsory insurance covered most physical damage to automobiles and property.

(c) A Government of India report has shown that the demand for automobiles was highly inelastic

(d) Higher prices would definitely deter consumers.

5. X is 12 years elder to Y and will be 85 years old in 7 years. Z and Y's present ages are in the ratio 3:11. What is the present age of Z's father if he is 25 years older than Z?

(a) 44 years

(b) 43 years

(c) 45 years

(d) 46 years

6. A cylindrical rod of iron, whose height is equal to its radius, is melted and cast into spherical balls whose radius is half the radius of the rod. Find the number of balls.

(a) 3

(b) 4

(c) 5

(d) 6

7. In a shower, 5 cm of rainfall. The volume of water that falls on 1.5 hectare of ground is

(a) 75 cu.m

(b) 750 cu.m

(c) 7500 cu.m

(d) 75000 cu.m

8. The average of runs of a Cricket player of 10 innings was 32. How many runs must he make in his next innings so as to increase his average of runs by 4?

(a) 76

(b) 79

(c) 85

(d) 87

9. In X's point of view, his weight is greater than 65 kg but less than 72 kg. His father does not agree with X and he thinks that X's weight is greater than 60 kg but less than 70 kg. His Sister's view is that his weight cannot be greater than 68 kg. If all of them are correct in their estimation, what is the average of different probable weights of X?

(a) 55.5 kg

(b) 66.5 kg

(c) 77.5 kg

(d) 88.5 kg

Directions (10-14): Study the following information to answer the given questions.

Fourteen people are sitting in two parallel rows containing seven people each, in such a way that there is an equal distance between adjacent persons.

In row 1, P, Q, R, S, T, U and V are seated and all of them are facing south. In row 2, A, B, C, D, E, F and G are seated and all of them are facing north. Therefore, in the given seating arrangement each member seated in a row faces another member of the other row. U sits opposite to G and are in middle of the rows. A sits fourth to right of D. Neither A nor D sits at extreme ends. T faces D. V does not face A and V does not sit at any of the extreme ends. V is not an immediate neighbour of T. B sits at one of the extreme ends. Only three people sit between B and E. E does not face V. Three persons sit between R and Q. R is not an immediate neighbour of T. C does not face V. P is not an immediate neighbour of R.

10. Who amongst the following sit at the extreme left ends of the parallel rows?

    (a) R, B

    (b) F, T

    (c) P, C

    (d) B, F

11. Who amongst the following faces A?

    (a) R

    (b) T

    (c) P

    (d) S

12. How many persons are seated between T and S?

    (a) One

    (b) Two

    (c) Three

    (d) Four

13. P is related to V in the same way as C is related to F. Which of the following is E related to, following the same pattern?

    (a) B

    (b) D

    (c) C

    (d) A

14. Which of the following is true regarding F?

    (a) F sits second to right of C

    (b) F is not an immediate neighbour of A

    (c) F sits third to left of D

    (d) F faces V

Directions for the following 6 (Six) items: Read the following 6 Passages and answer the items that follow. Your answers to these items should be based on the passages only.

PASSAGE 1

The aim of the youth in politics appears to be not just contesting elections and assuming power, but a larger aim to serve the society and save it from innumerable social ills. However, to achieve these conceived objectives of progress, development, peace and empowerment, the youth need adequate nurturing. Education must be a mix of theory, case studies and practical exposure, which would make them aware of the realities of the society. Political parties must also focus on the capacity development of the youth who would be the harbingers of change. Development and enhancement of the leadership skills must be focused upon.

15. Which one of the logical assumptions can be derived from the above passage?

   (a) The young people have potentials to become effective leader in future.

   (b) The young people have potential to become efficient administrator

   (c) Only the youth can bring prosperity to our future generation through education and empowerment.

   (d) The youth don't have much exposure to ground realities of their society.

PASSAGE 2

The debt ridden, staggering economy of Europe is no longer news to anyone. Even a layman like me who hardly has very basic understanding of economics can gauge the direct implications of this economic hardship.

Unemployment has surged, inflation rates are soared and the current account deficits are hard to come to terms with. The causes for this economic downswing has been explained by economists in several ways; profligacy on the part of governments, shortsightedness etc,.

16. Which among the following is the **most logical, rational and critical inference** that can be made from the above passage?

   (a) The tough economic condition in Europe has created a frustrated population.

   (b) Europe has low reserves of foreign exchange.

   (c) Manufacturing sector is underperforming in Europe due to low capacity utilisation.

   (d) Things which are day to day phenomenon in one's life are not perceived as news by a layman.

PASSAGE 3

The author reflects on the concept of Blue Ocean Strategy. He explains that this concept delivers an instinctive framework for developing uncontested market space and making the competition irrelevant The author remarks that Blue Ocean Strategy is about having the best mix of attributes that result in creation of uncontested market space and high growth, and not about being the best.

17. The above paragraph appears to be an attempt at

   (a) developing the framework for Blue Ocean strategy

   (b) defining Blue Ocean strategy

   (c) reviewing an article or book on Blue Ocean strategy.

   (d) highlighting how Blue Ocean strategy leads to better returns

PASSAGE 4

BSE officials point out that ever since on-line trading took off, surveillance isn't difficult any more. Sophisticated software has been installed for continuous monitoring of stock prices. If that is so, how could the unnatural spurt in prices of operator-driven stock go unnoticed? There does not seem to be regular checks or supervision.

18. Which of the following is the most logical corollary to the above passage?

    (a) The software used at BSE is not as sophisticated as it is claimed to be.

    (b) The operators can drive stock prices crazy irrespective of the kind of software installed.

    (c) Having the infrastructure in place is one thing, but proper utilisation is another.

    (d) Nobody can ever predict how stock prices move in the market.

PASSAGE 5

A claim-processing company has two office buildings within a business area of the city but the buildings differ with regard to facilities and the pleasantness of the physical environment of the offices. By analysing the productivity records of these offices, the HR department noted that the productivity of the employees in the more pleasant office building was 32 per cent higher than in the other office. As the background of employees in both offices was comparable, the HR department concluded that more pleasant work environment leads to better productivity.

19. Which of the following, if true, most seriously weakens the conclusion of the HR department?

    (a) On an average, less-productive employees work for many hours per day at their office than do their more-productivity colleagues in the other building

    (b) More productive employees do not work any more hours than their less productive colleagues.

    (c) The more productive employees are generally rewarded by being transferred to the more pleasant office.

    (d) Unpleasant work environment makes people less motivated to work hard than more pleasant surroundings do.

PASSAGE 6

Technological education is worsening. People between eighteen and twenty-four, who are just emerging from their formal education, are more likely to be technologically illiterate than somewhat older adults. And yet, issues for public referenda will increasingly involve aspects of technology.

20. Which of the following statements can be the **most logical corollary** to the above passage?

    (a) If all young people are to make informed decisions on public reference any of them must learn more about technology.

    (b) Thorough studies of technological issues and innovations should be made a required part of the public and private school curriculum

    (c) It should be suggested that prospective voters attend applied science courses in order to acquire minimal competency in technical matters.

    (d) On public referenda issues, young people tend to confuse real or probable technologies with impossible ideals.

21. Racer A starts driving a race at 15km/hr. Racer B starts the race after one hour and drives at 25km/hr. When will Racer B overtake Racer A from the starting Point?

    (a) 1 hour

    (b) 1.5 hour

    (c) 2 hour

    (d) 2.5 hour

22. The average speed of a train without stoppages is 48 kmph and average speed with stoppages is 40 kmph. How many minutes in an hour the train stops on an average?

    (a) 11 min

    (b) 10 min

    (c) 12 min

    (d) 15 min

23. 2 Persons start at the same time from one point and move along two roads at right angles to each other. Their speeds are 36km/hr and 48km/hr respectively. What will be their distance after 15 seconds.

    (a) 150 m

    (b) 250 m

    (c) 300 m

    (d) 400 m

Directions (24-28): Study the information given below and answer the questions based on it.

   I.   There are six members in a family – A, B, C, D, E and F including two married couples.

   II. Two of them are doctors, one is a teacher, one is a clerk & two are the artists. Both the doctors are of same gender.

   III. A & C are in the same profession.

   IV. Teacher is married to a doctor & an artist is married to clerk.

   V.   A is an artist & E is male doctor. Both are unmarried.

   VI. F is a husband of B.

24. What is the profession of B?

    (a) Clerk

    (b) Teacher

    (c) Doctor

    (d) Artist

25. To whom the teacher is married?

    (a) D

    (b) F

    (c) C

    (d) A

26. Who is clerk?

    (a) A

    (b) B

    (c) C

    (d) D

27. The married couples from the following are

    (a) CD and BE

    (b) CD and FB

    (c) FD and EB

    (d) CF and BE

28. Which of the information is required from the given, for answering the above questions?

    (a) I

    (b) II

    (c) III

    (d) All are necessary

Directions for the following 6 (Six) items: Read the following 4 Passages and answer the items that follow. Your answers to these items should be based on the passages only.

PASSAGE 1

In this era of global capital flows, so much money is now flowing throughout the world that no single country can fight the problem of inflation effectively by tightening its monetary policy.

29. Which of the following could be the most logical conclusion based on the above passage?

    (a) Countries' finance ministries have insufficient control over their respective economies.

    (b) Countries' finance ministries have sufficient control over their respective economies.

    (c) Citizens should limit their consumption which will reduce the demand of products, thus reducing inflation

    (d) Inflation does not decrease as long as incomes increase.

30. Which of the following could be the **most logical inference** based on the above passage?

    (a) Changes in cash reserve ratio by Reserve Bank of India couldn't control the rate inflation in India

    (b) India should be insulated from the repercussions of globalisation

    (c) A country should buy more gold from world market to beat the inflation

    (d) Before the era of global capital flows, a country should have been able to control inflation using its monetary policy.

PASSAGE 2

There are solid reasons why the world has now convinced itself that oil is worth much less than before. On one side of the ledger there is supply, not only of oil itself, but also of the other fossil fuels which can often substitute for it, notably gas, which is more abundant than anyone would have imagined a few years ago, courtesy of the fracking boom. On the demand side, things have been developing even more rapidly, with a serious slowdown in the resource-intensive emerging economies, above all debt-laden China. The fracking revolution will not be reversed, and it increasingly looks like the Chinese flu will be hard to shake. All of which suggests that low oil prices could be here for a while.

31. The author's viewpoint can be **best summed up** in which of the following statements?

    (a) Both demand and supply forces have resulted in the substantial reduction in global oil prices

    (b) The demand for oil has been slowing due to slowdown of resource intensive economies and the supply has been hampered due to the availability of alternative resources, thus pushing prices down further

    (c) The fracking boom has restricted the supply of oil to debt laden China resulting in lower oil prices.

    (d) The fracking boom on the demand side and the Chinese flu on the supply side have caused sharp decline in global oil prices

PASSAGE 3

If there is an oil-supply disruption resulting in higher international oil prices, domestic oil prices in partially open-market countries such as India will rise as well, whether such countries import all or none of their oil.

32. Which of the following corollary that can explain this impact on domestic oil price?

(a) If international oil prices rise, domestic distributors of oil will begin to import more oil.

(b) The oil market even in a partially open-market like India is actually part of the international oil market, even if all of the domestic oil is usually sold to consumer within its borders.

(c) Domestic producers of oil in a partially open-market country are excluded from the international oil market when there is a disruption in the international oil supply.

(d) Domestic producers of oil should search for more oil proven reserves from both on-shore and offshore reserves.

PASSAGE 4

Lycopene, glutathione, and glutamine are powerful anti-oxidants that neutralise the free radicals that are produced in the body as a result of routine bodily processes. An excess of these free radicals in your system causes rapid ageing because they accelerate the rate of cellular damage. Ageing is simply the result of this damage. Thus, to slow down ageing it is necessary to supplement your diet with these antioxidants on a daily basis.

33. Which of the following assumption can be derived from the above passage?

(a) Free radicals accelerate geriatric illness in one's body.

(b) Antioxidants can only be extracted from fruits

(c) Only antioxidants can neutralise the free radicals which accelerate the ageing process

(d) Apart from antioxidants, minerals can reduce the rate free radicals produced in the body.

34. Which of the following, if true, most seriously undermines the author's contention?

(a) Most persons aren't concerned with the effects of ageing until it is too late to do anything.

(b) Exercise associated with normal daily activities effectively neutralises and dissipates the free radicals that are produced as a result of routine bodily processes.

(c) The cost of antioxidants is exorbitantly high and well beyond the budget of most consumers.

(d) Only overweight people who do not exercise on a daily basis are likely to have an excess of free radicals in their systems.

35. Town X and Town Y are 300 kms apart. Town X to Town Y is a downstream journey on a stream which flows at a speed of 5 km/hr. Boats A and B run a shuttle service between the two towns. Boat A which starts from Town X has a still water speed of 25km/hr while Boat B, which starts from Town Y. at the same time has a still water speed of 15km/hr. When will the two boats meet for the first time?

(a) 7.5 hours

(b) 8 hours

(c) 7 hours

(d) 8.5 hours

36. Difference between simple and compound interest compounded annually on a certain sum of money for 2 years at 4% per annum is Rs. 1. The sum is

    (a) 625

    (b) 630

    (c) 640

    (d) 650

37. Clinton is making trail mix out of 24 bags of cashew, 120 bags of badam, 72 bags of dried fruits. He wants each new portion of trial mix to be identical, containing the same combination of bags of cashew, bags of badam and bags of dried fruits with no bags left over. What is the greatest number of portions of trail mix Clinton can make?

    (a) 50

    (b) 36

    (c) 24

    (d) 12

38. There are less than 20 dozen apples in a large basket. If you count them 3, 5 or 7 at a time, there are none left over. How many apples are there in the basket?

    (a) 15

    (b) 35

    (c) 105

    (d) 212

39. Which of the two conclusions can be concluded on the basis of given statements?

Statements

    I.   All workers are men
    II. No man is educated

Conclusions

    I.   All workers are uneducated
    II. Some men are workers

Give answer

    (a) Only I follows

    (b) Only II follows

    (c) Both I and II follow

    (d) None of the above

40. In each of the following questions, find out which of the answer figure from the pieces given in problem figure.
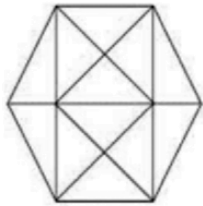

    (a) A

    (b) B

    (c) C

    (d) D

41. Pointing to a photograph, a person tells his friend, "She is the granddaughter of the elder brother of my father." How is the girl in the photograph related to his Man?

    (a) Niece

    (b) Sister

    (c) Aunt

    (d) Sister-in-law

42. How many triangles are there in the following figure?

(a) 20

(b) 24

(c) 28

(d) 32

43. Look at this series: 1.5, 2.3, 3.1, 3.9, ... What number should come next?

(a) 4.2

(b) 4.4

(c) 4.7

(d) 5.1

Directions for the following 3 (Three) items: Read the following 2 Passages and answer the items that follow. Your answers to these items should be based on the passages only.

PASSAGE 1

In the ordinary course of nature, the great beneficent changes come slowly and silently. The noisy changes, for the most part, mean violence and disruption. The roar of storm and tornadoes, the explosions of volcanoes, the crash of thunder, are the result of a sudden break in the equipoise of the elements; from a condition of comparative repose and silence they become fearfully swift and audible. The still small voice is the voice of life and growth and perpetuity... In the history of a nation it is the same.

44. The author implies that growth and perpetuity in nature and in history are the result of

(a) quiet changes

(b) a period of silence

(c) undiscovered action

(d) storms and tornadoes

PASSAGE 2

While it is often helpful to think of humans as simply another successful type of mammal, a vital distinction remains. When a pride of lions enjoys a surfeit of food, they are likely to hunt quickly, eat all they can, and then spend the remainder of the day sleeping. When people enjoy such easy living, we see a markedly different pattern—our big brains cause us to be restless, and we engage in play. This takes the form of art, philosophy, science, even government. So the intelligence and curiosity that allowed early humans to develop agriculture, and thus a caloric surplus, also led to the use of that surplus as a foundation for culture.

45. The author most likely cites the behaviour of lions in order to

(a) Explore the range of hunting behaviours in different successful species

(b) Question the efficiency of the lion's feeding behaviour

(c) Help illustrate the distinguishing characteristic of humans that led to the development of culture

(d) Provide a contrast to the image of humans as industrious and resourceful.

46. The last sentence ("So, the intelligence…for culture.") primarily serves to

   (a) Condone a future investigation.

   (b) Illustrate the significance of a distinction

   (c) Provide an alternative explanation

   (d) Suggest future implications of a phenomenon

47. Abu and Sharma start a company, with Abu investing the total capital of Rs. 50,000 on the condition that Sharma pays Abu interest at 10% p.a. on his half of the capital. Abu is a working partner and services Rs. 1500 per month from the total profit and any profit remaining is equally shared by both of them. At the end of the year, it was found that the income of Abu is twice that of Sharma. Find the total profit for the year?

   (a) Rs. 39,000

   (b) Rs. 49,000

   (c) Rs. 59,000

   (d) Rs. 69,000

48. A report consists of 20 sheets each of 55 lines and each such line consists of 65 characters. This report is reduced into sheets each of 65 lines such that each line consists of 70 characters. The percentage reduction in number of sheets is closest to:

   (a) 20%

   (b) 5%

   (c) 30%

   (d) 35%

49. 40% of the workers of a company are men and 75% of the men earn more than Rs. 25000/year. If 45% of the company's workers earn more than Rs. 25000/year what fraction of the women employed by the company earn Rs. 25,000 or less per year?

   (a) 2/11

   (b) 1/4

   (c) 1/3

   (d) 3/4

50. A candidate has to obtain 33% of the total score to pass. He got 125 marks and lost by 40 marks. The maximum mark is:

   (a) 500

   (b) 600

   (c) 800

   (d) 1000

51. In these series, you will be looking at both the letter pattern and the number pattern. Fill the blank in the middle of the series or end of the series based on your logical reasoning.

   QAR, RAS, SAT, TAU, _____

   (a) UAV

   (b) UAT

   (c) TAS

   (d) TAT

52. Each of five friends A, B, C, D and E travels different distances to their workplaces. A travels more than B but less than E. D travels more than only C. The one, who travels the most, travels 30 km. B travels 15 km to his workplace.

   Who amongst the following possibly travels 5 km to the workplace?

   (a) A

   (b) C

   (c) D

   (d) Either C or D

53. In a queue, Amrita is 10th from the front while Mukul is 25th from behind and Mamta is just in the middle of the two. If there be 50 persons in the queue. What position does Mamta occupy from the front?

(a) 14th

(b) 16th

(c) 18th

(d) 20th

Directions for the following 3 (Three) items: Read the following 2 Passages and answer the items that follow. Your answers to these items should be based on the passages only.

PASSAGE 1

The extent to which a society is really free can be gauged by its attitude towards artistic expression. Freedom of expression can easily be violated even in the most outwardly democratic of societies. When a government arts council withholds funding for a dance performance because its members deem "obscene", the voices of a few bureaucrats have in fact censored the work of the choreographer, thereby committing the real obscenity of repression.

54. Which of the following, if true, would most seriously weaken the argument above?

(a) Failing to provide financial support for a performance is not the same as actively preventing or inhibiting it.

(b) The term obscenity has several different definitions that should not be used interchangeably for rhetorical effect.

(c) Members of government arts councils are screened to ensure that their beliefs reflect those of the majority.

(d) The council's decision could be reversed if the performance were altered to conform to public standards of appropriateness.

PASSAGE 2

It is unfortunate for the country, specially for the poor and women, that whenever any kind of disincentive even of the mildest nature such as debarring a person with more than two children from contesting any local body election is introduced to promote family planning, there are always some activists and organisations who unnecessarily oppose the measures without realising that the voluntary family planning programmes are a miserable flop as clearly highlighted by the national family health surveys.

55. Which of the following assumption can be derived from the above passage?

(a) Only a person having two children can be an efficient people's representative.

(b) People can be persuaded to adopt family planning by disincentive rather than voluntary wish to adopt family planning

(c) Activist believes that person having more than two children have more exposure to social ills hence qualified to stand for election.

(d) Health survey indicates that number of family having four children is doubled over the past 5 years.

56. Which of the following, if true, would most strengthen the author's contention?

    (a) Percentage of rural women voluntarily seeking family planning services in government health centre facilities has drastically come down over the last decade.

    (b) Activists and organisation which seem to advocate civil rights issues typically have their own vested interests and hidden agendas.

    (c) Punitive measures are the best deterrents for refraining people from committing deeds which adversely affect the society at large.

    (d) One child policy in China, where employees with more than one child are discriminated against, has been very effective in controlling their population.

57. A team of 10 members is to be chosen out of 12 managers and 10 clerks. In how many different ways can the group be selected if it should have atleast one manager?

    (a) $22C_{10}$

    (b) $22C_{10}+1$

    (c) $22C_a+10c_1$

    (d) $22C_{10}-1$

58. Pipe 'X' fills a tank in the rate of 100 lit/min. Pipe 'Y' fills the tank at the rate of 25 lit/min. Pipe 'Z' drains the tank at the rate of 50 lit/min.

    Three pipes are kept open for one minute each, one after the other. If the capacity of the tank in 7000 litres, how long will it take to fill the tank.

    (a) 279.25 min

    (b) 280 min

    (c) 279 min

    (d) 277 min

59. In a box, slots numbered consequently from 101 through 350 are placed. What is the probability that the slot selected at random will have a number with hundredth digit as 2?

    (a) 0.285

    (b) 0.4

    (c) 100/249

    (d) 99/250

60. A person purchased 120 bundles at Rs. 80 per bundle. He spent Rs. 280 on transportation. Paid octrai tax at the rate of 40 pair per bundle and paid Rs. 72 to the coolie. If he wants to have a gain of 8%, What must be the selling price per bundle?

    (a) Rs. 86

    (b) Rs. 87.48

    (c) Rs. 89

    (d) Rs. 90

61. If the position of the first, sixth digits of the number 2796543018 are interchanged, similarly the positions of the second and seventh digits are interchanged and so on, which of the following will be the left of seventh digit from the left end?

    (a) 1

    (b) 7

    (c) 0

    (d) 8

62. How many days are there in x and weeks x days?

(a) 7x* x

(b) 8x

(c) 14x

(d) 7

Directions for the following 4 (Four) items: Read the following 2 Passages and answer the items that follow. Your answers to these items should be based on the passages only.

PASSAGE 1

It is important for companies to motivate their employees to stay fit. Therefore, employees should be provided with gymnasium facilities which help one to stay fit.

63. Which of the following assumption can be made based on the above passage?

(a) Only those employees who are fat use gymnasium facilities.

(b) All those employees who use gymnasium facilities are fit.

(c) The employees who are fit use gymnasium facilities.

(d) Some employees who wants to increase their weight use the gymnasium.

64. Which of the following, if true, most weakens the above argument?

(a) Not all employees are interested in using gymnasium facilities.

(b) Only some employees are interested in undergoing dieting program.

(c) Without using gymnasium facilities, employees who undergo a dieting program are also fit

(d) All of those employees who use gymnasium facilities are fit.

PASSAGE 2

We generally talk about democracy but when it comes to any particular thing, we prefer a belonging to our caste or community or religion. So long as we have this kind of temptation, our democracy will remain a phoney kind of democracy. We must be in a position to respect a man as a man and to extend opportunities for development of those who deserve them and not to those who happen to belong to our community or race. This fact of favouritism has been responsible for much discontent and ill-will in our country.

65. Which one of the following inferences can be made on the basis of the above passage?

(a) Equality and discrimination are mutually inclusive idea.

(b) Phoney kind of democracy doesn't admit favouritism.

(c) Privileges based on affirmative discrimination are inevitable part of Indian democracy

(d) Equality and discrimination based on caste, community or religion are mutually exclusive things in democracy.

PASSAGE 3

Nandhini says: My father insists that the only way to get a good rank in the UPSC examination is to work much harder than what I do at present. However, Partha and Vaishnavi, my two college seniors whom he coached for UPSC last year got good ranks with less effort than what I am putting in.

66. Which one of the following is the **most and rational logical corollary** that can explain the motive behind her comparison?

   (a) She presents the ideal method to prepare for UPSC examination

   (b) She presents evidence that was previously overlooked

   (c) She points out a logical flaw in her father's reasoning

   (d) She draws an analogy to justify her method of preparation.

67. The ratio of speeds of a car, a train and a bus is 5:9:4. The average speed of the car, the bus and the train is 72 km/hr together. What is the average speed of the car and the train together?

   (a) 84 km/hr

   (b) 96 km/hr

   (c) 72 km/hr

   (d) 60 km/hr

68. A bag has Rs. 43 in the form of 5 Rupee, 50 paise, 10 paise coins in the ratio 1:5:11. What is the total number of 50 paise coins?

   (a) 5

   (b) 25

   (c) 55

   (d) 50

69. Simple Interest on a certain sum of money for 3 years at 8% per annum is half the compound interest on Rs. 4000 for 2 years at 10% per annum. The sum placed on Simple Interest is:

   (a) Rs. 1550

   (b) Rs. 1650

   (c) Rs. 1750

   (d) Rs. 2000

70. If July 9th, 2013 falls on Sunday then Jan 7th, 2014 falls on which day?

   (a) Sunday

   (b) Saturday

   (c) Monday

   (d) Friday

71. ba_ba_bac_acb_cbac

   (a) aacb

   (b) bbca

   (c) ccba

   (d) cbac

Directions for the following 4 (Four) items: Read the following 1 Passages and answer the items that follow. Your answers to these items should be based on the passages only.

PASSAGE 1

The environmental impacts of dams have come under a lot of discussion in recent years. For a long time, it was thought that the only effects of dams were good, for example, inexpensive hydroelectric power. In the last few years, however; the negative aspect of dams has come into focus. Many people have said that dams are very harmful to the environment, but only recently has research shown that this is not always true. Whatever the consensus, dams do effect the environment, for good and bad; and they do this by impacting both their upstream and downstream environments. The amount of water that flows through a river is greatly affected by a dam built across it. Dams break up the natural flow rate and change the way water moves in a river. This can lead to more erosion downstream as the water tries to "replenish" the sediment load that it lost while passing through the dam. However, downstream flooding is lessened through this process as well. A free-flowing river will flood if the amount of water exceeds the capacity of the riverbed. This can cause land on both sides of the river to be inundated with water for extended periods of time. A dam breaks up the flow of water to the extent that even flood levels may be trapped behind it, preventing flooding downstream.

A dam also makes a break in the river's natural ecosystem, blocking migratory paths of some fish and preventing the free flow of organisms in the water. However, efforts such as building "staircases" that salmon are able to climb have, to a great extent, alleviated this problem.

Also, dams do let water flow through them, though at a modified rate, so organism in the water still eventually make their way downstream.

72. How does downstream erosion occur?

(a) The structure of dam helps such erosion

(b) The water tries to "replenish" the sediment load that it lost while passing through the dam.

(c) The amount of water exceeds the capacity of the riverbed

(d) The dam breaks up the flow of water

73. Why do dams affect the organisms in the water?

(a) They block the migratory paths of some organisms

(b) Dams do not allow water to flow through them.

(c) River's natural ecosystem completely changes due to building of dam

(d) Building a dam is a costly affair

74. Which of the following is/are true according to the passage?

i) Dams are not necessarily harmful to the environment
ii) Dams are good for environment
iii) Dams are bad for environment
iv) Dams are used to produce inexpensive hydroelectric power

(a) (i) & (iv) are correct

(b) (i), (ii), and (iv) are correct

(c) (i), (iii) and (iv) are correct

(d) All of the above are correct

75. Environmental impacts of dams have come under discussion only recently because

    (a) Earlier it did not cause any harm

    (b) Earlier only the positive effects were known

    (c) The negative aspect of dams has come into focus now

    (d) Earlier hydroelectric power was inexpensive

76. 8 Women and 12 men complete a certain piece of work in 9 days. If each women takes twice the time taken by man to finish the work. In how many days will 12 men finish the same work?

    (a) 8

    (b) 15

    (c) 9

    (d) 12

77. A is 30% more efficient that B. How much time will they working together take to complete the work which 'A' alone can do in 23 days?

    (a) 11 days

    (b) 13 days

    (c) 20 days

    (d) 9 days

    Directions (78-80): Study the following information carefully and answer the questions given below:

    There are six ropes i.e. E, F, G, H, I and J of different lengths. F is longer than E. I is longer than F. I is shorter than only G. J is longer than F. E is not the shortest rope. The length of 2nd longest rope is 54cm and 3rd shortest rope is 30cm.

78. Which of the following is 3rd longest rope?

    (a) I

    (b) J

    (c) F

    (d) E

79. What may be the possible length of J?

    (a) 28cm

    (b) 42cm

    (c) 25cm

    (d) 55cm

80. Which of the following is 2nd shortest rope?

    (a) J

    (b) F

    (c) E

    (d) H