

Answers are underlined

KTSE (Kutchi Talent Search Examination) – 2016
(NanjiMonji Dedhia Charitable Trust)

Name: _____ ID No.: _____

SET A

Instructions

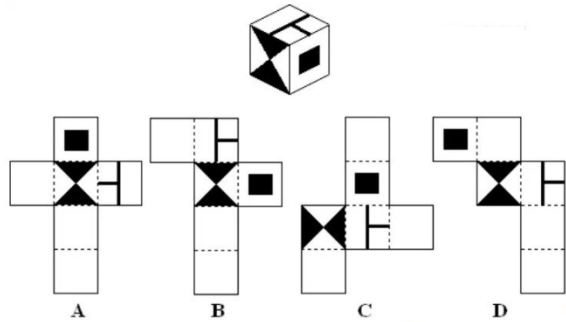
- The exam duration is **120 minutes (2 hours)**
- The exam is of 100 marks
- Most questions are multiple choice. **With a black pen, fill the correct answer in the answer sheet separately provided.**
- In the answer sheet, please put down your registration ID. Please shade one circle in each column. Put 3 digits. For example, if your registration is 9, then put 009, If it is 71, put 071
- In the answer sheet also mark whichever set you get (Set A or Set B)
- There are **85 questions** in two sections for a total of 100 marks
 - SECTION 1: **1 marks** each (70 questions adding up to **70** marks)
 - SECTION 2: **2 marks** each (15 questions adding upto **30** marks)
 - There is NO negative marking
- The rough work should be done on separate paper provided.
- **Results**
 - The results will be put on the site nmdedhiatrust.com on Thursday, June 9th. Please do not call to find out the marks.
 - The top 40 ranks will get an email regarding the interview with the timings. They will be called for an interview on Saturday, June 11th

ALL THE BEST !!

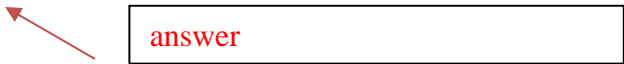
SECTION 1

ALL QUESTIONS IN THIS SECTION ARE OF 1 MARKS

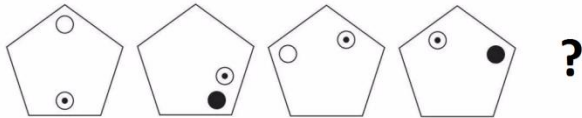
Q1: (1 mark) Which pattern can be folded to make the cube shown below ?



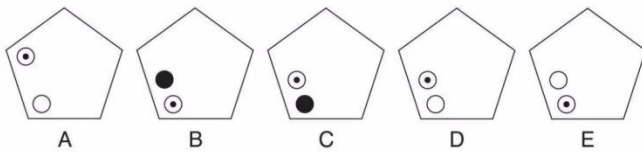
A: A B: B C: C D: D E: none of the above



Q2: (1 mark)

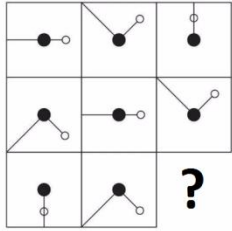


What comes next?

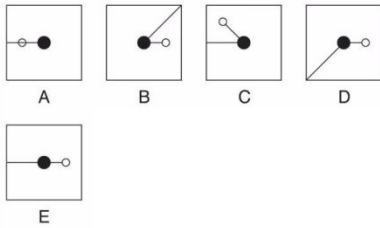


A: A B: B C: C D: D E: E

Q3: (1 mark)

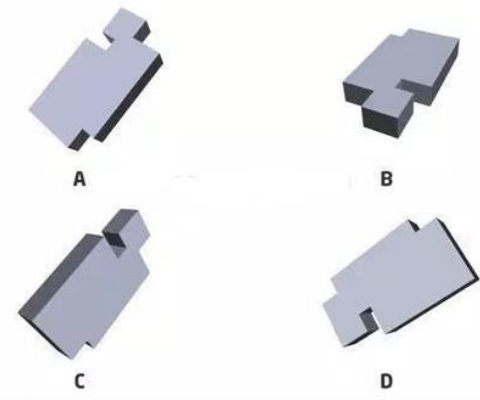


Which is the missing tile?



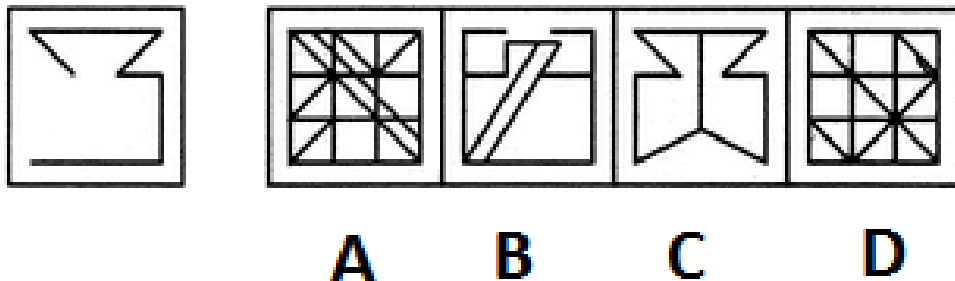
- A: A B: B C: C D: D E: E

Q4: (1 mark) Which of the objects is different in shape compared to the rest ?



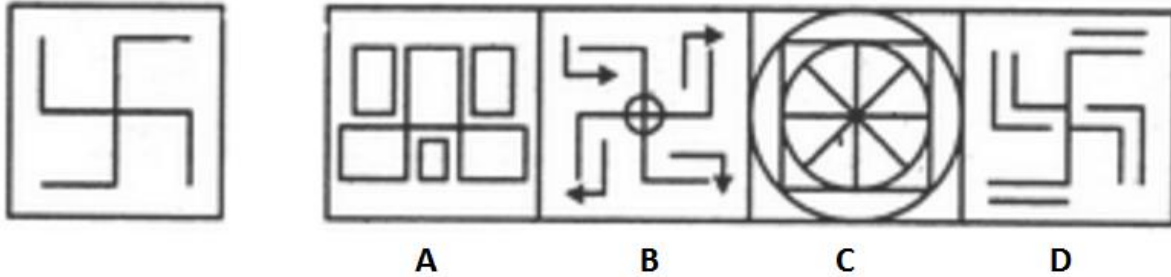
- A: A B: B C: C D: D E: All the objects are same

Q5: (1 mark) The figure in the left is embedded inside one of the figures on the right. Select the right figure



A: A B: B C: C D: D E: It is embedded in all the figures

Q6: (1 mark) The figure in the left is embedded inside one of the figures on the right. Select the right figure



A: A B: B C: C D: D E: It is embedded in all the figures

Q7: (1 mark) Choose the word that is a necessary part of the word given below

Lightning

A: Electricity B: Thunder C: Brightness D: Rain E: Shock

Q8: (1 mark) Choose the word that is a necessary part of the word given below

Election

A: Parliament B: Voters C: Nation D: Electronic Voting machines
E: Minimum age

Q9: (1 mark)

Sachin's commute never bothered him because there were always seats available on the train and he was able to spend his 40 minutes comfortably reading the newspaper or catching up on paperwork. Ever since the train schedule changed, the train has been extremely crowded, and by the time the doors open at his station, there isn't a seat to be found.

Which of the following must be true ?

- A. Sachin would be better off taking the bus to work.
- B. Sachin's commute is less comfortable since the train schedule changed.
- C. Many commuters will complain about the new train schedule.
- D. Sachin will likely look for a new job closer to home.
- E. The train is stopping at more stations before reaching Sachin's station.

A: A B: B C: C D: D E: E

Q10: (1 mark) Rakesh is twelve years old. For three years, he has been asking his parents for a dog. His parents have told him that they believe a dog would not be happy in an apartment, but they have given him permission to have a bird. Rakesh has not yet decided what kind of bird he would like to have.

Which of the following **must** be true ?

- A. Rakesh's parents like birds better than they like dogs.
- B. Rakesh does not like birds.
- C. Rakesh and his parents live in an apartment.
- D. Rakesh and his parents would like to move.
- E. A dog always needs more space than is available in an apartment

A: A B: B C: C D: D E: E

Q11: (1 mark)

The press should not be afraid of upholding and supporting a just and righteous cause. It should not be afraid of criticizing the government in a healthy manner. The press has to be eternally vigilant to protect the rights of the workers, backward and suppressed sections of the society. It should also give a balanced view of the things so that people can be helped in the formation of a healthy public opinion.

The passage best supports the statement that

- A. press has a great role to play in a democracy.
- B. the press is the only means to project to the masses the policies of the government.
- C. the freedom of press is essential for the proper functioning of democracy.
- D. the press can help in the upliftment of the backward sections of society.
- E. The press always supports just and righteous causes

A: A B: B C: C D: D E: E

Q12: (1 mark)

Throughout the ages the businessman has helped build civilisation's great cities, provided people with luxuries and artists with patronage, and lift his fellow citizens to understand the standard of living. In the last few centuries the businessman has seeded the Industrial Revolution around the world.

The passage best supports the statement that the businessman -

- A. is accountable to the society.
- B. lives luxurious and comfortable life.
- C. is the beneficiary of the Industrial Revolution.
- D. is capable of raising his standard of living.
- E. has contributed to the growth of civilisation.

A: A B: B C: C D: D E: E

Q13: (1 mark)

In the question below are given two statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusion and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Statements: All roads are waters. Some waters are boats.

Conclusions:

- I Some boats are roads.
- II All waters are boats.

- A. Only conclusion I follows
- B. Only conclusion II follows
- C. Either I or II follows
- D. Neither I nor II follows
- E. Both I and II follow

A: A B: B C: C D: D E: E

Q14: (1 mark) In the question below are given two statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusion and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Statements: No bat is ball. No ball is wicket.

Conclusions:

- I No bat is wicket.
- II All wickets are bats.

- A. Only conclusion I follows
- B. Only conclusion II follows
- C. Either I or II follows
- D. Neither I nor II follows
- E. Both I and II follow

A:A B: B C: C D: D E: E

Q15: (1 mark) What comes next in the series ?

FAG, GAF, HAI, IAH, _____

A: JAK B: HAL C: HAK D: JAI E: JAF

Q16: (1 mark)

Marathon is to race as hibernation is to

A: winter B: dream C: bear D: sleep E: cave

Q17: (1 mark) Oar is to rowboat as foot is to

A: running B: jumping C: shoes D: cycle E: skipping

Q18: (1 mark) Which word does NOT belong with the others ?

A:branch B: soil C: leaf D: root E: buds

Q19: (1 mark) Which word does NOT belong with the others ?

A:noun B: preposition C: punctuation D: adverb E: conjunction

Q20: (1 mark)

Here are some words translated from an artificial language.

moolokarn means blue sky

wilkospadi means bicycle race

moolowilko means blue bicycle

Which word could mean "racecar"?

A:wilkozwet B: spadiwilko C: moolobreil D: spadivolo
E: wilkomoolo

Q21: (1 mark)

Here are some words translated from an artificial language.

tamceno means sky blue

cenorax means blue cheese

aplmitl means star bright

Which word could mean "bright sky"?

A:cenotam B: mitltam C: raxmitl D: aplceno E:
mitlapl

Q22: (1 mark) If you're a fitness walker, there is no need for a commute to a health club. Your neighborhood can be your health club. You don't need a lot of fancy equipment to get a good workout either. All you need is a well-designed pair of athletic shoes.

This paragraph best supports the statement that

- A. fitness walking is a better form of exercise than weight lifting.
- B. a membership in a health club is a poor investment.
- C. walking outdoors provides a better workout than walking indoors.
- D. fitness walking is a convenient and valuable form of exercise.
- E. poorly designed athletic shoes can cause major foot injuries.

A:A B: B C: C D: D E: E

Q23: (1 mark)

People **speculate** when they consider a situation and assume something to be true based on inconclusive evidence. Which situation below is the best example of Speculation ?

- A. Francine decides that it would be appropriate to wear jeans to her new office on Friday after reading about "Casual Fridays" in her employee handbook.
- B. Mary spends thirty minutes sitting in traffic and wishes that she took the train instead of driving.

- C. After consulting several guidebooks and her travel agent, Jennifer feels confident that the hotel she has chosen is first-rate.
- D. When Emily opens the door in tears, Theo guesses that she's had a death in her family.
- E. When Sonia saw dark clouds and thunder, she felt that it would rain soon.

A:A B:B C: C D: D E: E

Q24: (1 mark)

Erratic Behavior occurs when an individual acts in a manner that lacks consistency, regularity, and uniformity. Which situation below is the best example of Erratic Behavior?

- A. Shilpa cannot contain her anger whenever the subject of local politics is discussed.
- B. Manish has just been told that he is being laid off. Before leaving his supervisor's office, he punches a hole in the door.
- C. Rhea has visited the dealership several times, but she still cannot decide which car to buy.
- D. In the past month, Jigar, who has been a model employee for three years, has repeatedly called in sick, forgotten important meetings, and been verbally abusive to colleagues.
- E: Aryan always picks up fights with people at the gym

A:A B: B C: C D: D E: E

Q25: (1 mark)

Please select a pair that is similar in relationship to
LIGHT:BLIND

- A: speech:dumb B: language:deaf C: tongue:sound
- D: voice:vibration E: walking:handicapped

Q26: (1 mark)

Please select a pair that is similar in relationship to

GRAVITY:PULL

- A: iron:metal B: north pole:directions C: magnetism:attraction
- D: dust:desert E: earth:sun

Q27: (1 mark) A man has Rs. 480 in the denominations of one-rupee notes, five-rupee notes and ten-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has?

A:45 B: 60 C: 75 D: 90 E: 30

Q28: (1 mark) Eight people are planning to share equally the cost of a rental car. If one person withdraws from the arrangement and the others share equally the entire cost of the car, then the share of each of the remaining persons increased by:

A: 1/7 B: 1/8 C: 1/9 D: 7/8 E: 1/56

Q29: (1 mark) David gets on the elevator at the 11th floor of a building and rides up at the rate of 57 floors per minute. At the same time, Albert gets on an elevator at the 51st floor of the same building and rides down at the rate of 63 floors per minute. If they continue travelling at these rates, then at which floor will their paths cross ?

A: 19 B: 28 C: 30 D: 32 E: 34

Q30: (1 mark) At what angle are the hands of a clock inclined at 15 minutes past 5?

A: 58 ½ degrees B: 60 degrees C: 64 degrees D: 67 ½ degrees
E: 70 degrees

Q31: (1 mark) A man divides Rs. 8600 among 5 sons, 4 daughters and 2 nephews. If each daughter receives four times as much as each nephew and each son receives five times as much as each nephew, how much does each daughter receive ?

A: 800 B: 600 C: 400 D: 200 E: 100

Q32: (1 mark) To begin with, a tin of oil was $\frac{4}{5}$ full. When 6 bottles of oil were taken out and 4 bottles of oil were poured into it, it became $\frac{3}{4}$ full. How many total bottles of oil can the tin contain ?

A: 10 B: 20 C: 30 D: 40 E: 50

Q33: (1 mark) In a certain office, $\frac{1}{3}$ of the workers are women, $\frac{1}{2}$ of the women are married and $\frac{1}{3}$ of the married women have children. Also, $\frac{3}{4}$ of the men are married and $\frac{2}{3}$ of the married men have children. What part of workers are without children ? Assume that no one in the office is married to each other.

A: 1/18 B: 7/18 C: 11/18 D: 13/18 E: 1/9

Q34: (1 mark) Village X has a population of 68000, which is decreasing at the rate of 1200 per year. Village Y has a population of 42000, which is increasing at the rate of 800 per year. In how many years will the population of the two villages be equal?

A: 13 B: 14 C: 15 D: 8 E: 9

Q35: (1 mark) Arjun and Simran are friends. Each has some money. If Arun gives Rs. 30 to Simran, then Simran will have twice the money left with Arjun. But, if Simran gives Rs. 10 to Arjun, then Arjun will have thrice as much as is left with Simran. How much money does Simran have ?

A: 62 B: 58 C: 46 D: 38 E: 34

Q36: (1 mark) In a caravan, there are 50 hens, 45 sheep and 8 camels along with some shepherds. If the total number of feet is 224 more than the number of heads, find the number of shepherds.

A: 10 B: 15 C: 20 D: 24 E: 26

Q37: (1 mark) The average weight of A,B,C is 45 Kg. The average weight of A & B is 40Kg & that of B & C is 43 kg. Find the weight of B in kg.

A: 30 B: 31 C: 32 D: 33 E: 34

Q38: (1 mark) The average weight of 10 oarsmen in a boat is increased by 1.8 kg when one of the crew, who weighs 53 kg, is replaced by a new man. Find the weight of the new man in kg.

A: 10 B: 18 C: 53 D: 55 E: 71

Q39: (1 mark) A batsman makes a score of 87 runs in the 17th inning and thus increases his average by 3. Find his average after the 17th inning.

A: 37 B: 38 C: 39 D: 40 E: 41

Q40: (1 mark) The present age of a father is 3 years more than three times the age of his son. Three years hence, the father's age will be 10 years more than twice the age of the son. Find the present age of the father.

A: 28 B: 29 C: 30 D: 31 E: 33

Q41: (1 mark) 10% of the original inhabitants of a village died of cholera. Panic set in thereafter, and 25% of the remaining inhabitants left the village. The population is then reduced to 4050. Find the number of original inhabitants.

A: 6000 B: 7000 C: 8000 D: 9000 E: 10000

Q42: (1 mark) When the price of a product was decreased by 10%, the number of units of the product sold increased by 30%. What was the effect on the total revenue ?

A: increased by 120% B: increased by 20% C: decreased by 20%
D: increased by 17% E: remained the same

Q43: (1 mark) A mixture contains alcohol and water in the ratio 4 : 3. If 5 liters of water is added to the mixture, the ratio becomes 4: 5. Find the quantity of alcohol in the given mixture in liters.

A: 2.5 B: 4.7 C: 8.3 D: 10 E: 13

Q44: (1 mark) A is twice as good a workman as B, and together they finish a piece in 18 days. In how many days will A alone finish the work?

A: 20 B: 22 C: 24 D: 26 E: 27

Q45: (1 mark) If a man walks at the rate of 5 kmph, he misses a train by 7 minutes. However, if he walks at the rate of 6 kmph, he reaches the station 5 minutes before the arrival of the train. Find the distance, in km, covered by him to reach the station.

A: 6 B: 7 C: 8 D: 9 E: 10

Q46: (1 mark) Two trains, 137 meters and 163 meters in length, are running towards each other on parallel lines; one at the rate of 42 kmph and another at 48 kmph. In how much time (in seconds) will they be clear of each other from the moment they meet?

A: 8 B: 10 C: 12 D: 100 E: 300

Q47: (1 mark) The diameter of the driving wheel of a bus is 140 cm. How many revolutions per minute must the wheel make, in order to maintain a speed of 66 kmph ?

A: 1000 B: 250 C: 1250 D: 1750 E: 2000

Q48: (1 mark)

All toffees are chocolates
Some toffees are not good for health

The above implies that

A Some chocolates are not good for health
B Some toffees are good for health
C No toffees are good for health
D Both (A) and (B)
E Neither (A) nor (B)

A: A B: B C: C D: D E: E

Q49: (1 mark) P is 60 m south-east of Q. R is 60 m north-east of Q. Then R is in which direction of P.

A: North B: North-East C: South D: South-East
E: West

Q50: (1 mark) In an examination, a student scores 4 marks for every correct answer and loses 1 mark for every wrong answer. If he attempts all 75 questions and secures 125 marks, the number of questions he attempts correctly is

A: 35 B: 40 C: 42 D: 46 E: 45

Q51: (1 mark) If "PROMPT" is coded as QSPLOS, then "PLAYER" should be

A: QMBZFS B: QMBZDW C: QUREXM D: QMBXDQ
E: QMBOQU

Q52: (1 mark) It rained as much on Wednesday as on all the other days of the week combined. If the average rainfall for the whole week was 3 cms, how much did it rain on Wednesday?

A: 3.3 B: 10.5 C: 15.5 D: 2.62 E: 4.5

Q53: (1 mark) In a game, each person is dealt three cards from a deck of 52 cards and a player is said to have a winning deck if & only if he or she has a king, queen & a jack each, irrespective of the color of the card. What is the total possible number of winning decks for this game?

A: 4 B: 8 C: 12 D: 16 E: 64

Q54: (1 mark) Which number would replace question mark in the series
7, 12, 19, ?, 39.

A: 22 B: 24 C: 28 D: 30 E: 32

Q55: (1 mark) Find the missing letter
U, O, I, ?, A

A: G B: F C: E D: C E: H

Q56: (1 mark) In a certain code language, 'Mink Yang Pe' means 'Fruits are ripe'; 'Pe Lao May Mink' means "Oranges are not ripe" and 'May Pe Nue Mink' means 'Mangoes are not ripe'. Which word in that language means 'Mangoes' ?

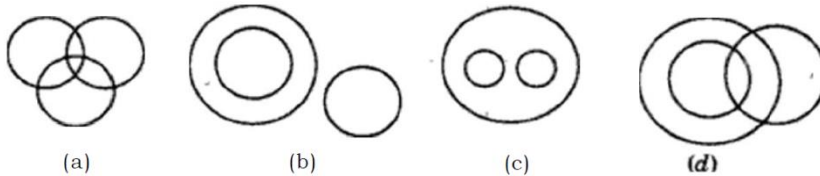
A: May B: Pe C: Nue D: Mink E: Yang

Q57: (1 mark) Pointing to a girl in the photograph, Amar said, "Her mother's brother is the only son of my mother's father." How is the girl's mother related to Amar ?

A: Mother B: Sister C: Aunt D: Grandmother
E: Daughter

Q58: (1 mark) Select from the given diagrams, the one that illustrates the relationship among the given three classes :

Women, Mothers, Widows.



A: a B: b C: c D: d E: All the above

Q59: (1 mark) Which letter will be sixth to the right of the third letter from left of the letter which is exactly in the middle of the letters in the series given below ?

A B C D E Z Y X W V Q R S T
U F G H I J K L M N O P A

A: F B: G C: J D: I E: H

Q60: (1 mark)

7 8 9 7 6 5 3 4 2 8 9 7 2 4 5 9 2 9 7 6 4 7

In the number series above, which numbers have the same frequency ?

A: 2,5,3 B: 2,4,5 C: 3,7,5 D: 7,2,5 E: 8,6,5

Q61: (1 mark)

In a row of girls, Rita and Monika occupy the ninth place from the right end and tenth place from the left end, respectively. If they interchange their places, Rita and Monika occupy seventeenth place from the right and eighteenth place

from the left, respectively. How many girls are there in the row ?

- A: 24 B: 25 C: 26 D: 27 E: 28

Q62: (1 mark) Sangeeta remembers that her father's birthday was certainly after eighth but before thirteenth of December. Her sister Natasha remembers that their father's birthday was definitely after ninth but before fourteenth of December. On which date of December was their father's birthday ?

- A: 10th B: 11th C: 12th D: 13th E: Data inadequate to decide

Q63: (1 mark) Find the missing number ?



- A: 4 B: 343 C: 305 D: 729 E: 864

Q64: (1 mark)

In a survey conducted at a University, it was found that 51% of the students wanted to learn French as a foreign language, 48% wanted to learn German and 52% wanted to learn Russian.

Of the surveyed students, 21% wanted to learn both French and German, 23% wanted German and Russian and 24% wanted French and Russian. Only 12% wanted to learn all three languages. A total of 500 students were surveyed.

How many students wanted to learn only German?

- A: 80 B: 100 C: 120 D: 140 E: 160

Q65: (1 mark)

A drug that is highly effective in treating many types of infection can, at present, be obtained only from the bark of the ibora, a tree that is quite rare in the wild. It takes the bark of 5,000 trees to make one kilogram of the drug. It follows, therefore, that continued production of the drug must inevitably lead to the ibora's extinction.

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

- A. The drug made from ibora bark is dispensed to doctors from a central authority.
- B. The drug made from ibora bark is expensive to produce.
- C. The leaves of the ibora are used in a number of medical products.
- D. The ibora can be propagated from cuttings and grown under cultivation.
- E. The ibora generally grows in largely inaccessible places.

- A: A B: B C: C D: D E: E

Q66: (1 mark) Last year the rate of inflation was 1.2 percent, but for the current year it has been 4 percent. We can conclude that inflation is on an upward trend and the rate will be still higher next year.

Which of the following, if true, **most seriously** weakens the conclusion above?

- A. The inflation figures were computed on the basis of a representative sample of economic data rather than all of the available data.
- B. Government intervention cannot affect the rate of inflation to any significant degree.
- C. Increases in the pay of some workers are tied to the level of inflation, and at an inflation rate of 4 percent or above, these pay raises constitute a force causing further inflation.
- D. The 1.2 percent rate of inflation last year represented a 10-year low.
- E. Last year a dip in oil prices brought inflation temporarily below its recent stable annual level of 4 percent.

A: A B: B C: C D: D E: E

Q67: (1 mark) As a construction material, bamboo is as strong as steel and sturdier than concrete. Moreover, in tropical areas bamboo is a much less expensive construction material than either steel or concrete and is always readily available. In tropical areas, therefore, building with bamboo makes better economic sense than building with steel or concrete, except where land values are high.

Which of the following, if true, most helps to explain the exception noted above?

- A. Buildings constructed of bamboo are less likely to suffer earthquake damage than are steel and concrete buildings.
- B. Bamboo is unsuitable as a building material for multi-storey buildings.
- C. In order to protect it from being damaged by termites and beetles, bamboo must be soaked, at some expense, in a preservative.
- D. In some tropical areas, bamboo is used to make the scaffolding that is used during large construction projects.
- E. Bamboo growing in an area where land values are increasing is often cleared to make way for construction.

A: A B: B C: C D: D E: E

Q68: (1 mark)

Thyrian lawmaker: "Thyria's Cheese Importation Board inspects all cheese shipments to Thyria and rejects shipments not meeting specified standards. Yet only 1 percent is ever rejected. Therefore, since the health consequences and associated economic costs of not rejecting that 1 percent are negligible, whereas the board's operating costs are considerable, for economic reasons alone the board should be disbanded."

Consultant: "I disagree. The threat of having their shipments rejected deters many cheese exporters from shipping substandard product."

The consultant responds to the lawmaker's argument by

- A. rejecting the lawmaker's argument while proposing that the standards according to which the board inspects imported cheese should be raised
- B. providing evidence that the lawmaker's argument has significantly overestimated the cost of maintaining the board
- C. objecting to the lawmaker's introducing into the discussion factors that are not strictly economic

- D. pointing out a benefit of maintaining the board, which the lawmaker's argument has failed to consider
- E. shifting the discussion from the argument at hand to an attack on the integrity of the cheese inspectors

A: A B: B C: C D: D E: E

Q69: (1 mark) Look at the sentences that are given below,

If the contract is valid, then X is liable.
If X is liable, he will be bankrupt.
If the bank loans him money, he will not go bankrupt.

Select the statement that is consistent with the above statements:

- A. The contract is valid and the bank will loan him money.
- B. The contract is valid and the bank will not loan him money.
- C. The contract is not valid and he will go bankrupt.
- D. The contract is not valid and he is liable.
- E: All the above are invalid

A: A B: B C: C D: D E: E

Q70: (1 mark) Amit, Balvinder, Chetan, and Deepak are employed in a company, where they have to share among themselves the workload that consists of six tasks A, B, C, D, E, and F. The following statements identify their preferences for the different tasks.

- All those who like task B also like task E.
- All those who like task C also like task D.
- All those who like task E do not like task C, and vice-versa.
- Some of those who like task E also like task A.
- Some of those who like task D also like task E.
- All those who like task D also like task F.

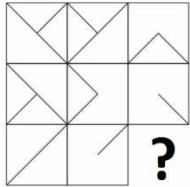
Amit enjoys the task D. Which of the following must be true?

- A: He may or may not like the task C B: He does not like the task B
- C: He likes the task A D: He likes the task C E: He does not like task F

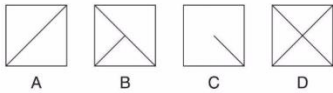
SECTION 2

ALL QUESTIONS IN THIS SECTION ARE OF 2 MARKS

Q71: (2 marks)



Which is the missing box?



A: A

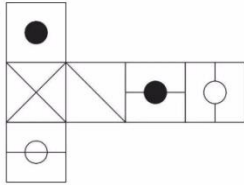
B: B

C: C

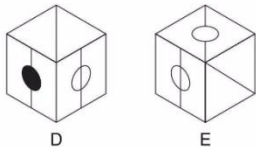
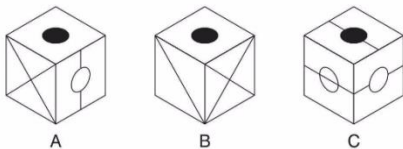
D: D

E: E

Q72: (2 marks)



When the above shape is folded to form a cube, which is the only one of the following that can be produced?



A: A

B: B

C: C

D: D

E: E

Q73: (2 marks)

At a small company, parking spaces are reserved for the top executives: CEO, president, vice president, secretary, and treasurer with the spaces lined up in that order. The parking lot guard can tell at a glance if the cars are parked correctly by looking at the color of the cars. The cars

are yellow, green, purple, red, and blue, and the executives names are Alice, Bert, Cheryl, David, and Enid.

- * The car in the first space is red.
- * A blue car is parked between the red car and the green car.
- * The car in the last space is purple.
- * The secretary drives a yellow car.
- * Alice's car is parked next to David's.
- * Enid drives a green car.
- * Bert's car is parked between Cheryl's and Enid's.
- * David's car is parked in the last space.

Who is the secretary?

A: Enid B: David C: Cheryl D: Bert E: Alice

Q74: (2 marks) Find the remainder when 2^{31} is divided by 5

A: 1 B: 2 C: 3 D: 4 E: 5

Q75: (2 marks) The price of a piece of jewelry, passing through three middle-men, rises on the whole by 65%. If the first and the second sellers made 20% and 25% profit respectively, find the percentage profit earned by the third seller.

A: 5% B: 10% C: 15% D: 20% E: 25%

Q76: (2 marks) Two pipes A and B can fill a tank in 36 min and 45 min respectively. A water pipe C can empty the tank in 30 min. In the beginning, A and B are opened. After 7 min, C is also opened. How much time (in mins) did the tank take to fill from the beginning.

A: 40 B: 41 C: 46 D: 48 E: 39

Q77: (2 marks) A rectangular block 6 cm by 12 cm by 15 cm is cut up into an exact number of equal cubes. Find the least possible number of cubes.

A: 5 B: 10 C: 20 D: 40 E: 60

Q78: (2 marks)

- 1) B is mother of D but D is not daughter of B.
- 2) A is son of M and brother of G.
- 3) G is sister of D

Which of the following cannot be referred from the given information ?

A: B has 3 children B: M has two sons C: G is younger to B
D: A is younger to D E: D is younger to M

Q79: (2 marks) Find the missing number

5, 6, 9, 15, ?, 40

A: 21 B: 25 C: 27 D: 29 E: 31

Q80: (2 marks)

- Jayant, Kamal, Namita, Asha and Tanmay are five members of a family,
- They have their birth dates from January to May, each member in one of these months.
- Each one likes one particular item for his/her birthday out of Bengali Sweets, Chocolates, Pastries, Ice Cream and Dry Fruits,
- The one who likes Pastries is born in the month which is exactly middle in the months given.
- Asha does not like Ice cream but brings Chocolates for Jayant in February.
- Tanmay who is fond of Bengali sweets is born in the next month immediately after Namita.
- Namita does not like Dry fruits or Ice cream.

Which month was Namita born in ?

A: January B: March C: April D: May E: Either April or May

Q81: (2 marks)

In a meet, persons from five different places have assembled in Bangalore High School. From the five places the number of people who come to represent are 42, 60, 210, 90 and 84 respectively.

What is the minimum number of rooms that would be required to accommodate so that each room has the same number of occupants and occupants are all from the same places?

A: 6 B: 32 C: 44 D: 62 E: 81

Q82: (2 marks)

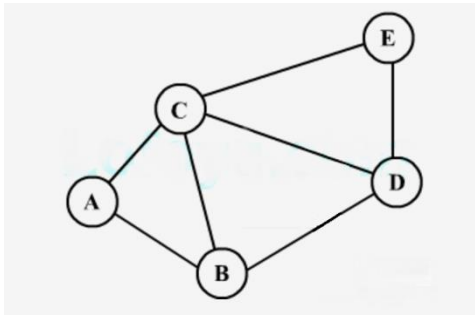
Abdul, Mala and Chetan went bird watching. Each of them saw one bird that none of the others did. Each pair saw one bird that the third did not. And one bird was seen by all three. Of the birds Abdul saw, two were yellow.

Of the birds Mala saw, three were yellow. Of the birds Chetan saw, four were yellow. How many yellow and non-yellow birds were seen in all?

A: 7 yellow birds and 3 non yellow birds B: 5 yellow birds and 2 non yellow birds
C: 4 yellow birds and 2 non yellow birds D: 4 yellow birds and 3 non yellow birds
E: 4 yellow birds and 4 non yellow birds

Q83: (2 marks)

Two days (Thursday and Friday) are left for campaigning before a major election, and the city administration has received requests from five political parties for taking out their processions along the following routes.



Congress: A-C-D-E
 BJP: A-B-D-E
 SP: A-B-C-E
 BSP: B-C-E
 CPM: A-C-D

Street B-D cannot be used for a political procession on Thursday due to a religious procession. The district administration has a policy of not allowing more than one procession to pass along the same street on the same day. However, the administration must allow all parties to take out their procession during these two days.

Based on the above information, Congress procession can be allowed:

- A: Only on Thursday B: Only on Friday C: On either day
 D: Only if the religious procession is cancelled
 E: Neither on Thursday nor on Friday

Q84: (2 marks) A retail major has a warehouse (W) located at (16, 10) in a town having roads laid on a square grid parallel to the x and y axes. There are five retail supermarkets (M, N, O, P and Q) located respectively at (4, 4), (6, 16), (16, 24), (20, 16) and (26, 4).

What is the ordering of the supermarkets, going along the roads, from the nearest to the farthest from the warehouse ?

- A: P, M, N and Q, O B: P, N and Q, O, M C: P, O, N and Q, M
 D: P, O, M, N and Q E: P, N and Q, M, O

Q85: (2 marks)
 In the rectangular solid above, the three sides shown have areas 12, 15, and 20, respectively. What is the volume of the solid?



- A: 40 B: 50 C: 60 D: 80 E: 100