



CBRT - 2020 Question Paper Grid

Government of Goa

22 November 2020

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Set Name

Subjects

Display

Junior Scale Officer(Prescreening Test)

Passage:

Answer the following questions based on passage

We can break mountains apart; we can drain the rivers and flood the valleys. We can turn the most luxurious forests into throwaway paper products. We can tear apart the great grass cover of the western plains and pour toxic chemicals into the soil and pesticides onto the fields until the soil is dead and blown away in the wind. We can pollute air with acids, rivers with sewage, the sea with oil-all this with an intoxication with our power for devastation at an order of magnitude beyond all reckoning. We can invent computers capable of processing ten million calculations per second. And why? To increase the volume and speed with which we move natural resources through the consumer economy to the junk pile or waste heap.

Itemcode : PT1411

Q1 : Identify a word or phrase from the options given below which implies "being overcome with"

- (a) reckoning
- (b) magnitude
- (c) intoxication
- (d) none of these

Itemcode : PT1412

Q2 : Identify from the options provided below, the expression used to convey the damage directly caused to nature and environment

- (a) devastation
- (b) waste heap
- (c) beyond all reckoning
- (d) junk pile

Itemcode : PT1413

Q3 : "To increase the volume and speed with which we move natural resources through the consumer economy to the junk pile or waste heap". This statement is an indictment of

- (a) superfast computers
- (b) insensitive consumerism
- (c) natural resources
- (d) junk pile or waste heap

Itemcode : PT1414

Q4 : From the phrases listed below, select the one which is used in the passage in a non-destructive sense by itself

- (a) drain the rivers
- (b) break mountains
- (c) invent computers
- (d) flood the valleys

Itemcode : PT1415

Q5 : Identify from the options given below, the one that indicates "harmful substances, used to protect food crops from destruction"

- (a) toxic chemicals
- (b) pesticides
- (c) sewage
- (d) acids

Passage:

Answer the following questions based on the passage:

I remember the first time when I went to a swimming pool here in the United States. I grew up a great lover of swimming. The river that separated our village from the next served as our swimming pool, and my friends and I would eagerly await the monsoon season-it was great sport for us to swim all the way to the other bank, trying not to be pushed off course by the powerful flood current. You can understand my surprise, then, when I came to the pool and saw a young man floating in an inner tube, sipping a soft drink. I had expected rows of energetic Americans swimming lap after lap, but all I found was this chap drifting in the sun. As I spoke with him, it became clear that, this was his idea of putting a swimming pool to its best use. He was really under the impression that he was having a grand time.

Itemcode : PT1416

Q6 : The narrator of this passage was surprised to find the young man was

- (a) floating in an inner tube in the pool
- (b) sipping a soft drink in the pool
- (c) all by himself in the pool
- (d) drifting in the sun

Itemcode : PT1417

Q7 : The monsoon season was much awaited because it provided:
 (i) a challenging flood current to the young swimmers of the village
 (ii) an adventure to swim to the opposite bank of the river

- (a) Statement (i) is true, but statement (ii) is false
- (b) Statement(i) is false but statement (ii) is true
- (c) both the above statements are true
- (d) neither of the above statements is true

Itemcode : PT1418

Q8 : The passage implies that the narrator felt that

- (a) it was the best use of a swimming pool
- (b) the young man was having a great time
- (c) his expectations of the pool were fulfilled
- (d) his expectations of the pool were belied

Itemcode : PT1419

Q9 : The passage mentions two issues: (i) the young man's idea of using the pool; and, (ii) his idea of having a grand time. From the tone and tenor of the passage, it is clear that the narrator agrees with

- (a) both (i) and (ii)
- (b) neither (i) nor (ii)
- (c) only (i); but disagrees with (ii)
- (d) only (ii); but disagrees with (i)

Itemcode : PT1420

Q10 In the context of the phrase "having a grand time", the following option comes closest as a suitable synonym for :
 "grand"

- (a) enjoyable and good
- (b) illustrious and glorious
- (c) heroic and august
- (d) gallant and imperial

Itemcode : PT1361

Q11 The following question presents a related pair of words linked by a colon, four pairs of words follow the linked pair.
 : Choose the pair of words whose relationship is most like the relationship expressed in the original linked pair.
 Flock : geese

- (a) Students : class
- (b) Magic show : children
- (c) Orchestra : musicians
- (d) Park : people

Itemcode : PT1362

Q12 343 : 678 :: 512 : ?
 :

- (a) 1024
- (b) 1536
- (c) 1000
- (d) 1016

Itemcode : PT1363

Q13 If PAINT is coded as 53168 and EXCEL is coded as 42947 then how would you encode ACCEPT?
 :

- (a) 399458
- (b) 547978
- (c) 554978
- (d) 399548

Itemcode : PT1364

Q14 In a certain code, TRIPPLE is written as SQHOOKD. How is DISPOSE written in that code ?
 :

- (a) EJTQPTF
- (b) EJTQPTG
- (c) CHRPNRD
- (d) CHRONRD

Itemcode : PT1365

Q15 Pick the odd man out?
 :

- (a) just

- (b) fair
- (c) equitable
- (d) biased

Itemcode : **PT1366**

Q16 Find the odd one out
: 10, 25, 45, 54, 60, 75, 80

- (a) 10
- (b) 45
- (c) 54
- (d) 75

Itemcode : **PT1367**

Q17 Complete the series: 5, 20, 24, 6, 2, 8, ?
:

- (a) 12
- (b) 32
- (c) 34
- (d) 36

Itemcode : **PT1368**

Q18 Look at this series: 15, 22, 33, 60, 151,.... What should come next?
:

- (a) 498
- (b) 496
- (c) 494
- (d) 502

Itemcode : **PT1369**

Q19 3, 12, 27, 48, 75, 108, ?
:

- (a) 147
- (b) 183
- (c) 162
- (d) None of the above

Itemcode : **PT1370**

Q20 In this series: 2, 4, 6, 8, 10, What number should come next?
:

- (a) 11
- (b) 12
- (c) 13
- (d) 14

Itemcode : **PT1371**

Q21 Dinesh travelled 1200 km by air which formed $\frac{2}{5}$ of his trip. One third of the whole trip, he travelled by car and the rest of the journey he performed by train. What was the distance travelled by train?
:

- (a) 600Km
- (b) 700Km
- (c) 800Km
- (d) 900Km

Itemcode : **PT1372**

Q22 A radio when sold at a certain price gives a gain of 20%. What will be the gain percent, if sold for thrice the price?
:

- (a) 280
- (b) 270
- (c) 290
- (d) 260

Itemcode : **PT1373**

Q23 Consider the following statements: 1. The Administrative Reforms Commission (ARC) had recommended that the Department of Personnel of a State should be put under the charge of the Chief Secretary of the State. 2. Chief Secretary of a State is not involved in any manner in the promotion of State Civil officers to the All-India Services. Which of the statements given above is/are correct?
:

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

Itemcode : **PT1374**

Q24 The product of two fractions is $\frac{14}{15}$ and their quotient is $\frac{35}{24}$. the greater fraction is
:

- (a) $\frac{4}{5}$
- (b) $\frac{7}{6}$

- (c) 7/5
(d) 7/4

Itemcode : **PT1375**

Q25 A house wife saved Rs. 2.50 in buying an item on sale .If she spent Rs.25 for the item ,approximately how much percent she saved in the transaction ?

- (a) 8%
(b) 9%
(c) 10%
(d) 11%

Itemcode : **PT1376**

Q26 A can have a piece of work done in 8 days, B can work three times faster than the A, C can work five times faster than A. How many days will they take to do the work together

- (a) 3 days
(b) 8/9 days
(c) 4 days
(d) None of the above

Itemcode : **PT1377**

Q27 A woman says, "If you reverse my own age, the figures represent my husband's age. He is, of course, senior to me and the difference between our ages is one-eleventh of their sum." The woman's age is

- (a) 23 years
(b) 34 years
(c) 45 years
(d) None of these

Itemcode : **PT1378**

Q28 There are deer and peacocks in a zoo. By counting heads they are 80. The number of their legs is 200. How many peacocks are there ?

- (a) 20
(b) 30
(c) 50
(d) 60

Itemcode : **PT1379**

Q29 Raghavan walks at a certain constant speed during his morning walks. However, one day due to an injury, he is able to manage at only 80% of his usual speed, which delayed his walk by 15 minutes. How long would he have taken if he were able to walk at his usual speed?

- (a) Data insufficient
(b) 75 minutes
(c) 60 minutes
(d) 45 minutes

Itemcode : **PT1380**

Q30 The salaries Aruna, Baruna, and Karuna are in the ratio 2 : 3 : 5. If the increments of 15%, 10% and 20% are allowed respectively in their salaries, then what will be new ratio of their salaries?

- (a) 3: 3: 10
(b) 10: 11: 20
(c) 23: 33: 60
(d) Cannot be computed

Itemcode : **PT1381**

Q31 Read the information carefully and answer the following questions.

- :
If A + B means A is the father of B.
If A x B means A is the sister of B.
If A \$ B means A is the wife of B.
If A % B means A is the mother of B.
If A ÷ B means A is the son of B

Which among the following options is true, if the expression $I + T \% J \times L \div K$ is definitely true?

- (a) L is the daughter of T
(b) K is the son-in-law of I
(c) I is the grandmother of L
(d) J is the brother of L

Itemcode : **PT1382**

Q32 "The light rays from the sun are scattered by particles in the atmosphere in a certain way that activates the blue part of the spectrum when the light strikes our eyes as we look skyward." This is an example for:

- (a) Statement.
(b) Argument.
(c) Cannot say.
(d) Explanation

Itemcode : **PT1383**

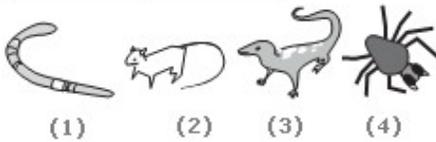
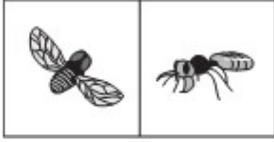
Q33 The criminal justice system needs to change. The system could be more just if it allowed victims the opportunity to confront the person who has harmed them. Also, mediation between victims and their offenders would give the offenders a chance to apologize for the harm they have done.

This paragraph best supports the statement that victims of a crime should

- (a) learn to forgive their offenders.
- (b) have the right to confront their offenders.
- (c) learn the art of mediation.
- (d) insist that their offenders be punished.

Itemcode : **PT1384**

Q34 Choose the picture that would go in the empty box so that the two bottom pictures are related in the same way as the top two are related.



- (a) 1
- (b) 2
- (c) 3
- (d) 4

Itemcode : **PT1385**

Q35 The car dealer found that there was a tremendous response for the new XYZ's car booking with long queues of people complaining about the duration of business hours and arrangements. Courses of action:

- I. People should make their arrangement of lunch and snacks while going for car XYZ's booking and be ready to spend several hours.
- II. Arrangement should be made for more booking desks and increase business hours to serve more people in less time.

- (a) If only I follows
- (b) If only II follows
- (c) If either I or II follows
- (d) If neither I nor II follows

Itemcode : **PT1386**

Q36 Statements:

- a. Only a few jumps are bumps.
- b. All pumps are bumps.

Conclusions:

- I. All pumps being jumps is a possibility
- II. No pumps are jumps is a possibility

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Both I and II follows
- (d) Neither I nor II follows

Itemcode : **PT1387**

Q37 The question given below has two statements and two conclusions. Assuming the statements to be true, check which conclusions logically follow and mark the appropriate choice.

Statement 1: All insects are crickets.

Statement 2: Some bugs are fly.

Conclusion 1: Some bug is insect.

Conclusion 2: Some crickets are insects

- (a) Only Conclusion 1 follows
- (b) Only Conclusion 2 follows
- (c) Both Conclusion 1 and Conclusion 2 follows
- (d) Neither Conclusions follow

Itemcode : **PT1388**

Q38 For a particular causal claim to be true, describing the purported cause with a claim X and purported effect with a claim Y, the following must hold:

- i. Both X and Y are true.
- ii. Given the normal conditions, the inference from X to Y is clearly valid or strong.
- iii. A is true of an earlier time than X, and both are true of particular places.
- iv. There is no common cause of both X and Y.

- (a) Only ii, iii, iv are correct
- (b) Only iii and iv are correct.

- (c) All of the above
(d) None of the above

Itemcode : **PT1389**

Q39 All the desserts except the creampuffs are available. It means:

- :
- (a) Some creampuffs are available and some creampuffs are not available.
(b) No creampuffs are desserts that are available and all desserts that are not creampuffs are desserts that are available.
(c) No creampuffs are desserts that are available.
(d) All creampuffs are desserts that are available and no desserts that are not creampuffs are desserts that are available.

Itemcode : **PT1390**

Q40 Insurance Company Y is considering issuing a new policy to cover services required by elderly people who suffer from several diseases that bothers the elderly. Premiums for the policy must be low enough to attract more customers; therefore, Company Y is concerned that the income from the policies would not be much sufficient to pay for the claims that would be made. Which one of the following strategies would be most likely to minimize Company Y's losses on the policies so the company will grow more?

- (a) Attracting middle-aged customers unlikely to submit claims for benefits for many years.
(b) Insuring only those individuals who did not suffer any serious diseases as children.
(c) Including a greater number of services in the policy than are included in other policies of lower cost.
(d) Insuring only those individuals who were rejected by other companies for similar policies.

Itemcode : **PT1391**

Q41 Statement: Should there be an upper age limit of 60 years for contesting Panchayat elections?

- :
- Arguments:
I. Yes. Generally, people above the age of 60 lose their dynamism and will power.
II. No. The life span is so increased that people remain physically and mentally active even up to the age of 80.

- (a) Only argument I is strong
(b) Only argument II is strong
(c) Either I or II is strong
(d) Neither I nor II is strong

Itemcode : **PT1392**

Q42 Question below is based on the following passage:

:

Guitar strings often go "dead" - become less responsive and bright in tone - after a few weeks of intense use. A researcher whose son is a classical guitarist hypothesized that dirt and oil, rather than changes in the mineral properties of the string, were responsible.

Which of the following investigations is most likely to yield significant information that would help to evaluate the researcher's hypotheses?

- (a) Determining if a metal alloy is used to make the strings used by classical guitarists
(b) Determining whether classical guitarists make their strings go dead faster than do folk guitarists.
(c) Determining whether identical lengths of string, of the same gauge, go dead at different rates when strung on various brands of guitars.
(d) Determining whether smearing various substances of new guitar strings causes them to go dead.

Itemcode : **PT1393**

Q43 Question based is based on the following passage:

:

In ancient Athens, the archon Solon encouraged the development of the artisan and manufacturing industries of the city. Unfortunately, though, the aristocrats at that time controlled the government and had many of their interests tied up in land. Their natural opposition to Solon's reforms led them to sabotage many of his projects.
The argument above assumes that

- (a) The aristocracy had seized power from the lower classes and their democratically-elected government in an unpopular coup.
(b) Solon was not an aristocrat himself, but rather a member of the lower classes of Athens.
(c) Democracy is a superior form of government to aristocracy.
(d) Those with interests in land are not interested in investing in or fostering manufacturing

Itemcode : **PT1394**

Q44 Every day Neera's husband meets her at the city railway station at 6.00 p.m and drives her to their residence. One day she left early from the office and reached the railway station at 5.00 p.m. She started walking towards her home, met her husband coming from their residence on the way and they reached home 10 minutes earlier than the usual time. For how long did she walk?

- (a) 60 minutes
(b) 50 minutes
(c) 30 minutes
(d) 55 minutes

Itemcode : **PT1395**

Q45 In the question, a part of the sentence has been underlined. From the choices given to you, you are required to choose the one which would best replace the underlined part.

Diabetes UK Inc. warned that there is a urgent need for effective care by sufferers, while more must be done to highlight the importance of prevention.

- (a) a urgent need for effective care by sufferers, while
(b) an urgent need for effective care by sufferers, though

- (c) an urgency for effective care for sufferers as
 (d) an urgent need for effective care for sufferers, while

Itemcode : PT1396

Q46 Three logicians - A, B and C are wearing hats, which they know are either black or white but not all white. A can see the hats of B and C; B can see the hats of A and C; C is blind. Each is asked in turn if they know the colour of their own hats. The answers are 'A : No, B : No, C : Yes'. What is the colour of C' s hat?

- (a) Black
 (b) White
 (c) Black if A is wearing a white hat
 (d) Cannot be determined

Itemcode : PT1403

Q47 Answer the question on the basis of the information given below.

- Four solids, namely a Sphere, a Cube, a Pyramid and a Cone are made of four different materials among Kryptonite, Wood, Diamond and Glass. Each solid is of a different colour among White, Green, Yellow and Black and each has a unique weight among 1 kg, 2 kg, 3 kg, and 4 kg. The costs of these solids are Rs.1 thousand, Rs. 1 million, Rs.1 billion and Rs.1 trillion. Each of the solids is manufactured by exactly one process among Cutting, Casting, Moulding and Forging. All the above mentioned properties of the solids are not in any particular order. Further, the following information is available:
- The Sphere is made of Diamond but it is neither Black in colour nor is it manufactured through the process of Casting.
 - The Cube is the 3rd heaviest and also the cheapest but it is neither made of Wood nor manufactured through the process of Casting.
 - The solid made of Kryptonite is manufactured through the process of Cutting but it is not Black in colour.
 - No two solids have the same relative position in terms of cost and weight.
 - The Pyramid is manufactured through the process of Moulding and is neither the costliest nor the lightest and it is not made of Wood or Diamond but is Green in Colour.

If it is given that the solid made of Diamond is the heaviest but not White in colour, then which of the following statements is true?

- (a) The Cone, which is made of Wood and manufactured through the process of Casting, is White in colour.
 (b) The Cube, which is made of Kryptonite and manufactured through the process of Cutting, costs Rs.1000 and is Yellow in colour.
 (c) The Sphere, which is made of Diamond and is Yellow in colour, is manufactured through the process of Forging.
 (d) None of these.

Itemcode : PT1404

Q48 Answer the question on the basis of the information given below.

- Four solids, namely a Sphere, a Cube, a Pyramid and a Cone are made of four different materials among Kryptonite, Wood, Diamond and Glass. Each solid is of a different colour among White, Green, Yellow and Black and each has a unique weight among 1 kg, 2 kg, 3 kg, and 4 kg. The costs of these solids are Rs.1 thousand, Rs. 1 million, Rs.1 billion and Rs.1 trillion. Each of the solids is manufactured by exactly one process among Cutting, Casting, Moulding and Forging. All the above mentioned properties of the solids are not in any particular order. Further, the following information is available:
- The Sphere is made of Diamond but it is neither Black in colour nor is it manufactured through the process of Casting.
 - The Cube is the 3rd heaviest and also the cheapest but it is neither made of Wood nor manufactured through the process of Casting.
 - The solid made of Kryptonite is manufactured through the process of Cutting but it is not Black in colour.
 - No two solids have the same relative position in terms of cost and weight.
 - The Pyramid is manufactured through the process of Moulding and is neither the costliest nor the lightest and it is not made of Wood or Diamond but is Green in Colour.
- Which solid is made of Wood and is manufactured through the process of Casting?

- (a) Sphere
 (b) Cube
 (c) Pyramid
 (d) Cone

Itemcode : PT1409

Q49 Eight varsity baseball players (G, H, J, K, L, M, N, O) are to be honoured at a special ceremony. Three of these players (H, M and O) are also varsity football players. Two of them (K and N) are also basketball players on the varsity team. In arranging the seats it was decided that no athlete in two sports should be seated next to another two-sport athlete.

Which of the following combination is possible in order to have the arrangement of seat as planned?

- (a) H G K J
 (b) H K J L
 (c) J K M N
 (d) J L H K

Itemcode : PT1410

Q50 Eight varsity baseball players (G, H, J, K, L, M, N, O) are to be honoured at a special ceremony. Three of these players (H, M and O) are also varsity football players. Two of them (K and N) are also basketball players on the varsity team. In arranging the seats it was decided that no athlete in two sports should be seated next to another two-sport athlete. To have the proper seating arrangement, K should sit between:

- (a) G and H
 (b) J and M
 (c) L and N
 (d) J and L

Passage:

Each question below contains six statements followed by four sets of combinations of three; Choose the set in which the

statement are logically related.

Itemcode : PT1397

- Q51** A. No school boy studies hard.
 : B. All school boys go to school.
 C. Some school boys are good at games.
 D. All school girls study hard.
 E. No school girl is a school boy.
 F. All school girls are children.

- (a) ABC
 (b) BCD
 (c) ADE
 (d) DEF

Itemcode : PT1398

- Q52** A. Some businessmen have good planning skills.
 : B. Some professionals have good planning skills.
 C. Some businessmen have good implementation skills.
 D. Some businessmen have good planning skills.
 E. Good planning skills lead to good implementation.
 F. Some businessmen implement well.

- (a) ACD
 (b) ADB
 (c) DEF
 (d) ABC

Itemcode : PT1399

- Q53** A. Final year students would like a good career.
 : B. All final year students are eligible as candidates for MBA entrance examination. Final year students are eligible for a good career.
 C. Some of those who are candidates for an MBA entrance examination are final year students.
 D. All those eligible as candidates for an MBA entrance examination are eligible for a good career.
 E. All those who would like a good career are entitled to it.

- (a) AEF
 (b) EBC
 (c) BCF
 (d) CDF

Passage:

Questions below are data sufficiency problems. Each consists of a question and two statements, labelled (I) and (II) in which certain data are given. You have to decide whether the data given in the statements are sufficient for answering the question. Mark answer:

Itemcode : PT1400

- Q54** By what percent has the price of an overcoat been reduced?
 : I) The original price was \$ 380.
 II) The original price was \$ 50 more than the reduced price.

- (a) if statement (I) ALONE is sufficient, but statement (II) alone is not sufficient to answer the question asked.
 (b) if statement (II) ALONE is sufficient, but statement (I) alone is not sufficient to answer the question asked.
 (c) if BOTH statements (I) and (II) TOGETHER are sufficient to answer the question asked, but NEITHER statement ALONE is sufficient.
 (d) if statement (I) and (II) TOGETHER are NOT sufficient to answer the question asked, and additional data specific to the problem are needed.

Itemcode : PT1401

- Q55** If the Longfellow playground is rectangular, what is its width?
 : I) The ratio of its length to its width is 7 to 2.
 II) The perimeter of the playground is 396 meters.

- (a) if statement (I) ALONE is sufficient, but statement (II) alone is not sufficient to answer the question asked.
 (b) if statement (II) ALONE is sufficient, but statement (I) alone is not sufficient to answer the question asked.
 (c) if BOTH statements (I) and (II) TOGETHER are sufficient to answer the question asked, but NEITHER statement ALONE is sufficient.
 (d) if statement (I) and (II) TOGETHER are NOT sufficient to answer the question asked, and additional data specific to the problem are needed.

Itemcode : PT1402

- Q56** What is the value of $x - 1$?
 : I) $x + 1 = 3$
 II) $x - 1 < 3$

- (a) if statement (I) ALONE is sufficient, but statement (II) alone is not sufficient to answer the question asked.
 (b) if statement (II) ALONE is sufficient, but statement (I) alone is not sufficient to answer the question asked.
 (c) if BOTH statements (I) and (II) TOGETHER are sufficient to answer the question asked, but NEITHER statement ALONE is sufficient.
 (d) if statement (I) and (II) TOGETHER are NOT sufficient to answer the question asked, and additional data specific to the problem are needed.

Passage:

Answer the questions on the basis of the following information.

Four families decided to attend the marriage ceremony of one of their colleagues. One family has no kids, while the others have at least one kid each. Each family with kids has at least one kid attending the marriage. Given below is some information about the families, and who reached when to attend the marriage.

- i. The family with two kids came just before the family with no kids.
- ii. Shanthi who does not have any kids reached just before Sridevi's family.
- iii. Sunil and his wife reached last with their only kid.
- iv. Anil is not the husband of Joya.
- v. Anil and Raj are fathers.
- vi. Sridevi's and Anita's daughters go to the same school.
- vii. Joya came before Shanthi and met Anita when she reached the venue.
- viii. Raman stays the farthest from the venue.
- ix. Raj said his son could not come because of his exams.

Itemcode : PT1405

Q57 Who among the following arrived third?

:

- (a) Shanthi
- (b) Sridevi
- (c) Anita
- (d) Joya

Itemcode : PT1406

Q58 Name the correct pair of husband and wife.

:

- (a) Raj and Shanthi
- (b) Sunil and Sridevi
- (c) Anil and Sridevi
- (d) Raj and Anita

Itemcode : PT1407

Q59 Of the following pairs, whose daughters go to the same school?

:

- (a) Anil and Raman
- (b) Sunil and Raman
- (c) Sunil and Anil
- (d) Raj and Anil

Itemcode : PT1408

Q60 Whose family is known to have more than one kid for certain?

:

- (a) Raman's
- (b) Raj's
- (c) Anil's
- (d) Sunil's