

CAT FULL LENGTH TEST 2

Time: 120 minutes

No. of Questions: 185

Directions for questions 1 to 3

Each of the sentences given below has a blank space. Select the appropriate word that would make the sentence meaningful.

1. He is said to be poor as _____

Simple a church mouse Crone a scarecrow

2. The captious political situation _____ unorthodox remedies.

Calls in calls off calls for calls out

3. We had concluded that Jim had died in a railway accident, when a week later, he stood in front of us as large as _____

a giant an ox the day life

4. The four steps were enforced at that time with a view _____ absenteeism.

to curbing to curb of curbing for curbing

Directions for questions 5 to 9

Each question consists of four jumbled sentences marked A, B, C, & D. Indicate the sequence which completes the sentence

5. (A) is your ability to spot a mistake in

(B) one of the aspects of the French Language

(C) a piece of formal written French

(D) you are examined in

DCBA CABC BDAC ACDB

6. (A) as he cannot possibly read and examine

(B) an editor has to play it by ear

(C) all the stuff that comes to him

(D) when he is considering varied articles on diverse subjects

BDCA DCBA BDAC BADC

7. (A) can make use of all the services and experts

(B) the most effective joint attack on management problems

(C) in such a way as to evolve

(D) a well organized operations research team

BDCA

DACB

DABC

BCDA

8. (A) Submission is another tendency in children

(B) Dr Mathews, a psychologist recognizes self-assertion as the life force

(C) Both these tendencies differ from child to child

(D) Self-assertion is a dominant instinct

BDCA

DACB

DABC

BCDA

9. (A) the employees will resent the inconsistent way in which

(B) as otherwise

(C) discipline is negotiated with a single individual for the sake of his morale

(D) one must consider the morale of the entire working force

BDCA

DACB

DABC

DBAC

Directions for questions 10 to 14

Given below are five words. Choose the word that does not belong to the group

10. ram, goat, sheep, ewe, bitch

bitch

ewe

ram

goat

11. books, library, scholar, dozen, lectern

dozen

books

library

lectern

12. voyage, plank, nautical, mariner, compass

plank

voyage

nautical

compass

13. museum, curator, curio, antiques, pantheon

museum

curator

curio

pantheon

14. pulley, hawser, crane, wharf, load

pulley

hawser

crane

wharf

Each of the sentences below has one or more blank spaces indicating that something has been left out. Choose the set of words that makes the sentence most meaningful.

15. _____ curtains of lace not only add grace but also _____ robbers from breaking into houses for fear of being seen.

Diaphanous, in habit

Lacy, prevent
Dilatory, instigate
Desultory, in genue

16. The man was mentally _____after the death of his wife and hence was put in an _____

unfit, hospital
deranged, asylum
upset, institution
depraved, ding

17. The _____ of his interest between music and dance put him in a _____as to which to pursue after completion of school.

diffusion, charisma
interest, problem
dichotomy, dilemma
confusion, perplex

18. clothes are _____ to make them shine

whitened
bleached
washed
rubbed

19. Medical facilities have improved so well that what was _____ yesterday is_____ today.

unimaginable, commonplace
professional, amateur
unbelievable, possible
official, unofficial

Each question below has two capitalized words which have a certain relationship between them . Following this are four other pairs. Select the pair wherein the words havea relationship closest to that of the original pair.

20. Ballerina: Balletomane

heroine: audience
performer: admirer
dance: choreographer
artist: critic

21. Boomerang: Aborigine

tomahawk: Indian
pistol: holster
horse: cowboy
hook: manhout

22. Stoic: Emotions

glint: steel
flint: spark

stork: baby
precious: gem

23. DISH: MENU

stars: stripes
seal: paper
vegetables: knife
leaf: book

24. BEE: HIVE

dog: mat
hornet: nest
duck: pond
worm: grub

Directions for questions 25 to 30

In each question below a capitalised word is followed by words. Choose the word that is most nearly opposite to the given capitalised word

25. BROWBEAT

usurp
procrastinate
cajole
despair

26. DROSS

liquid
stale
liqueur
essence

27. SLACK

airy
active
congenial
flamboyant

28. SEEDY

slow
fashionable
intricate
germinal

29. CAVIL

hair splitting
loosen up
applaud
flatter

30. NETTLE

disentangle
dismember
obfuscate
assauge

Directions for questions 31 to 34

In each question below a capitalised word is followed by words. Choose the word that is most nearly opposite to the given capitalised word.

31. SPRUCE

coniferous
exhibit
balderdash
sloppy

32. EXIGUOUS

vermiform
external
plentiful
limited

33. ECLAT

shining
splendiferous
devastating
fiasco

34. BILK

abbreviate
make noise
sulk
pay

Directions for questions 35 to 43

In each question below a capitalized word is followed by words. Choose the word that has most nearly the same meaning as the given capitalized word

35. ABNEGATE

terminate
contradict
oppose
renounce

36. ACCOUTERMENT

dress

uniform
ornaments
equipment

37. WHOLESOME

fulsome
perfect
healthy
delectable

38. INSTANCY

urgency
transistoriness
expediency
quickness

39. EXORDIUM

exit
exodus
applause
introduction

40. CANARD

scheme
plot
forgery
hoax

41. SEDULOUS

gullible
seductive
diligent
careful

42. VELITATION

inclination
controversy
felicitation
opposition

43. PRISTINE

immaculate
original
glorious
actual

Directions for questions 44 to 53

Choose a substitute for the underlined expression

44. Jim was worrying and nagging his dad to get him a car

- exasperating
- teasing
- badgering
- bullying

45. The study of the cause of diseases is essential to find a cure

- Aetiology
- Teleology
- Pharmacology
- Pathology

46. The rude shock unhinged him and upset his state of perfect balance

- peace
- rest
- equilibrium
- mentality

47. The place where clothes are kept was dirty

- cloth-shelf
- wardrobe
- pantry
- bathroom

48. Amar did not know that his speaking aloud to himself was overheard

- monologue
- aside
- soliloquy
- alone

49. I told them to prepare a summary of the general view of the subject

- paraphrase
- synopsis
- education
- comment

50. Anita was scared on seeing the violent and irregular movement of the limbs of the boy

- convulsions
- shivering
- spasms
- rich

51. Those who eat only vegetables do not like meat

- Ascetics

Vegetarians
Bad
Poor

52. The notice of death in the newspaper alarmed everyone

elegy
mortuary
obituary
death

53. He confessed that he urged the committing of the crime

encouraged
instigated
inspired
liked

Directions for Qs 54 to 60

Some of the sentences given below have certain errors in them. Spot the sentence with the error

54. 1]A survey of the reading habits of people
2]revealed that most people
3]are interested in fictions
4]than other literary works

1 2 3 4

55. 1]While all regional languages
2]should be given encouragement
3]it is our desire that we should
4]have a national language for us

1 2 3 4

56. 1]There goes Mr Raj and
2]his wife
3]attracting the attention
4]of all passers by

1 2 3 4

57. 1]Sachin is
2]a best example
3]of a cricketer
4]who was very nice by heart

1 2 3 4

58. 1]It is a fact that
2]he left his country
3]and settles in a foreign land
4]for money

1 2 3 4

59. 1] Looking through my day's mails
 2] I found to my surprise
 3] a letter to my surprise
 4] from my dearest friend

1 2 3 4

60. 1] The style of a man should be
 2] the image of his mind
 3] but the choice of language
 4] are the fruit of experience

1 2 3 4

Directions for questions 61 to 110. Choose the correct alternative

61. Suman borrowed Rs. 60,000 to build a bungalow. She pays 10 % S.I. She lets out her bungalow and receives a rent of Rs. 1500 p.m. In how many years will she clear her debt.

1 year 4 years 5 years 2 years

62. If the interest on Rs. 800 exceeds that on Rs. 600 by Rs. 15.50 in 6 months, find the rate percent p.a.

15 1/2 % 18 1/2 % 14% 5%

63. Find the compound interest in Rs. 2400 for 2 1/2 years at 5 % p.a., interest being compounded annually.

270.50 300 412.25 312.15

64. A square piece of ground is 45 metres long. Find the cost of fencing it round with 10 lines of wire at the rate of Rs. 1.50 per metre.

2700 2500 2300 2800

65. The external dimensions of a box are 10 cm , 6 cm , & 4 cm. If the thickness of wood is 1 cm, Find the volume of wood.

125 150 176 183

66. The radii of two cylinders are in the ratio 2 : 3 and heights 5 : 3. Calculate ratio of their volumes.

20 / 27 27 / 20 3 / 4 20 / 32

67. The diameter of a roller. 100 cm long is 60 cm. It takes 500 complete revolutions to level a playground. What is the cost of levelling @ 50 ps. per sq. m.

Rs. 200 Rs. 220 Rs. 400 Rs. 500

68. If $a+b+c = 0$. The value of $a^4+b^4+c^4/b^2c^2+c^2a^2+a^2b^2$ is :

2 3 6 8

69. A man divides his property among his sons so that one gets half, another gets quarter and third gets one fifth and the fourth Rs. 10000. What is the value of the total property?

200000 400000 1400000 2400000

70. If $m:n = 2:3$, the value of $3m+5n/6m-n$ is

7/3 3/7 5/3 3/5

71. Divide 27 into two parts so that 5 times the first and eleven times the second are together equal to 195

17:10 15:11 16:10 10:17

72. 40% of $\frac{5}{6}$ is

$\frac{1}{3}$ $\frac{2}{3}$ $\frac{2}{6}$ $\frac{3}{4}$

73. A dog taken 4 leaps for every 5 leaps of a hare but three leaps of the dog is equal to 4 leaps of the hare. Compare their speeds.

16:15 12:16 19:20 10:12

74. 55 men can finish a job in 42 days. If the work has to be completed 9 days earlier, how many additional men must be engaged to complete the work?

15 20 25 12

75. A retailer buys an electronic buzzer for Rs. 215. His overhead expenses are Rs. 25. If he sells the buzzer for Rs. 300, his profit percentage would be

25% 26% 20% 30%

76. In an election between two candidates one got 55% of the total valid votes. 20% of the votes are invalid. If the total votes are 7500, what is the number of valid votes that the other person got?

2700 2800 3000 3300

77. Aunt uses a car to travel from mumbai to nashik. She travelled at 60 kmph and covered half the distance in 2 hours. At what uniform speed should she travel to reach nashik at 4.00 pm?

40 60 50 35

78. The sum of ages of Nitya and her aunt is 63 years. Four years ago her aunt's age was 4 times that of Nitya's ages at that time. What is the present age in years of Nitya's aunt?

48 50 45 40

79. A watch ticks 90 times in 95 secs. And another watch ticks 315 times in 323 secs. If they start together, how many times will they tick together in first hour?

101 times 100 times 99 times 102 times

80. Area of a square is given to be S. If the sides are doubled, then the new area will be,

4S 2S $\frac{S}{2}$ S^2

81. The product of two numbers is 2400. If the bigger number is 1.5 times the smaller number is

40 45 35 30

82. Six men earn as much as 8 women, 2 women earn as much as 3 boys and 4 boys earn as much as 5 girls. If a girl earn Rs.50 a day, then the earning of a man would be

Rs.125 Rs.135 Rs.105 Rs.120

83. A train 150 meters long running at a speed of 60 kmph takes 30 seconds to cross a bridge. The length of the bridge is,

350m 450m 300m 400m

84. If a sum of money at certain rate of interest doubles in 5 years and at a different rate of interest becomes 3 times in 12 years, the better rate of interest is,

20% 10% $16\frac{2}{3}$ 15%

85. 126, 756, 252, 1512, _____

504 500 1210 None of these

86. The cost of painting the walls of a hall 30 meters long, 20 meters broad and 12 meters high, if it costs 25 paise per sq. metre.

Rs.300 Rs.325 Rs.350 Rs.400

87. The product of $3\sqrt{4}$, $6\sqrt{6}$ and $2\sqrt{5}$ is

$6\sqrt{12000}$ $6\sqrt{1000}$ $4\sqrt{12000}$ $3\sqrt{120000}$

88. If A can complete a work in 6 hours, and B can complete it in 8 hours, then how much time would they take to complete the work together?

$3\frac{3}{7}$ $2\frac{5}{2}$ $4\frac{5}{6}$ none of these.

89. A,B,and C can independently complete a task in 6,8 and 12 hours respectively. C starts working. 2 hours later she stops and simultaneously A and B starts working. Yet another 2 hours later, B stops working too. Now how long does A have to work alone to complete the task?

3 hour 6 hour 8 hour none of these.

90. 128, 32, 224, 56, _____

392 350 25 36

91. Taps A and B can independently fill a tank in 6 and 10 hours . Leak C can empty a filled tank in 8 hours. On an empty tank A, B, C are opened. How long does it take to fill the tank?

7.05 8.05 10.10 5.07

92. Ten years age, Ram was $\frac{2}{3}$ Shyam's age. 10 years hence Shyam will be 25% older than Ram. What are their present ages?

30;40 40;30 20;40 30;60

93. 25 years ago A's age was $\frac{1}{3}$ of what B's age will be 25 years hence 50 years hence, B's age will be twice A's present age. What is the sum of their present ages?

90 100 200 400

94. The sum of X and Y's age is 105. When X was Y's age, she was 1.5 times Y's age then what are their present ages?

45;60 30;40 50;60 60;45

95. 10 men working for 20 days, 5 hours a day can build a fence of length 20 meters. I need to build a fence of length 100 metres in 5 days and the men are willing to work 10 hours a day. How many men do we need?

200 300 400 100

96. Find the factor of $a^4 + 64$

$(a^2+8)(a^2-8)$ $(a^2+2)(a^2-2)$ $(a^2+4a+8)(a^2-4a+8)$ none of these.

97. A contractor undertakes to complete a project in 56 days using 100 men. However after 46 days, 100 men thereby completing the project on time. Had the additional men not been deployed, then by how many days would the project be delayed?

10 20 5 40

98. Exam-1 = 30/50 Exam2 = 40/50

a) what is the increase in percent?

b) What is the % of increase?

20; 33 1/3 33 1/3; 20 20; 40 40; 33 1/3

99. a) What is 30% of 60%?

B) What % is 30% of 60%?

C) What % of 30% is 60%?

17%; 45%; 190% 18%; 50%; 200% 20%; 100%; 150% 50%; 18%; 200%

100. a) The price of sugar increases by 25%. By what % should consumption be decreased so that expenditure on sugar remains constant?

b) Consider the same problem but price increases by 50%?

40; 66.66 80; 99.99 20; 33.33 10; 11.11

101. I have bought a car for some amount. I sell it to Mr.X at 10% loss due to need of money urgently. But later I buy it again from him at my original purchase price.

a) What is Mr.X's profit?

b) What is my loss?

11.11%; 10% 10%; 11.11% 20%; 22.22% 40%; 44.44%

102. A farmer purchases 2 horses for the same price. One he sells at a 10% profit and the other he sells at a 10% loss. What is his overall profit or loss?

Rs.200 loss Rs.200 profit no loss, no profit Rs.400 loss

103. A farmer sells 2 horses for the same price. In one he gains 20% and in the other he loses 20%. What is his overall profit or loss?

4% profit 4% loss 2% loss 2% profit

104. Money doubles in 3 years. When does it become 8 times?

24 years 12 years 6 years 18 years

105. A magician can double the no. of coins given to her in 1 minute. I give her a certain no. of coins and after an hour she has a boxfull of coins. When was the box 1/4 filled?

15 min 30 min 58 min 45 min

106. Principal Rs. 100, rate of interest 10%, compound interest, duration 2 years.

a)Compounded annually

c)Compounded daily

121 120 100 12.1

107. I buy a 20% stock of face value 50/- at 45/- and sell it at 55/-. A year later, what is my yield?

45.44% 44.45% 54.55% 55.54%

108. A dishonest seller pretends to sell his goods at cost price, but he uses a weight of 950gm for the kg weight. Find his gain%

5 6 7 4.5

109. P lent Rs.600 to Q for 2 years and Rs.150 to R for 4 years and received altogether from both Rs.90 as interest. Find the rate of interest, simple interest being calculated.

1% 5% 6% 3.5%

110. P owes Q Rs.455 payable 4 months hence and Q owes P Rs.450 payable 2 months hence. If they agree to settle their account what sum should be paid over and to whom reckoning the rate of true discount p.a.

Rs.12 Rs.13 Rs.11 Rs.16

Directions for questions 111 to 113

The data below gives the details of new projects in Bombay

Project	No. of rooms	Cost (Rs.Crore)	Year of completion
Taj Hotel	250	125	1999
Centaur	350	150	1999
Retreat	450	235	2000

111. What is the total cost of all new hotel projects in Bombay likely to be completed by 2000 in (RsCrore)?

505 510 525 275

112. Which of the following hotel projects has the lowest cost per room?

Centaur Taj Hotel Retreat none of these

113. What is the average number of rooms to be completed every year for the period between 1999-2000?

525 500 575 450

Directions for questions 122 to 141

Each question is followed by 2 statements

Mark (1) if statement I alone is sufficient but statement II alone is not sufficient

Mark (2) if statement II alone is sufficient but statement I alone is not sufficient

Mark (3) if both statements I & II together are sufficient but neither statements alone is sufficient

Mark (4) if each statement alone is sufficient

Mark (5) if statement I & II together are not sufficient.

122. A man has gone bankrupt. How much will the creditors receive

a. With total debts of Rs.43000 he will pay 23 paise in a rupee.

b. His total loss is Rs.12376.

1 2 3 4 5

123. How many letters can 2 typists complete in 1 day

- a. A working day consists of 5 hours.
- b. 3 typists can type 300 letters in 3 days.

1 2 3 4 5

124. How long is the bridge that crosses the river which is 820 ft.

- a. One bank of the river holds $\frac{1}{3}$ of the bridge.
- b. Other bank of the river holds $\frac{1}{4}$ of the bridge.

1 2 3 4 5

125. If x and y are integers, is $x+y$ an even number

- a. $5 < x < 10$
- b. $6 < y < 9$

1 2 3 4 5

126. Is $p = 40$

- a. the Arithmetic Progression of x, y and p is 10.
- b. $-x = y$

1 2 3 4 5

127. X wants to cover a square room with a carper. How much will it cost him

- a. the service charge is Rs.15 and each square yard costs Rs.20
- b. If the room were $\frac{1}{2}$ as large, it would cost Rs.165 less.

1 2 3 4 5

128. Is $a+b > c$

- a. a, b, c are consecutive positive integers greater than 1
- b. $ab > b+c$

1 2 3 4 5

129. Capacity of a petrol tank A is 60% the capacity of petrol tank B. How many more liters of petrol are in tank A than B.

- a. tank A is 80% full and tank B is 40% full.
- b. full tank of A contains 60 liters of petrol.

1 2 3 4 5

130. How much spirit has evaporated from a bottle in 2 hours

- a. the bottle holds 2 litres of spirit
- b. spirit evaporates at the rate of 1% of the available volume per hour.

1 2 3 4 5

131. Are 2 triangles congruent

- a. both the triangles are equilateral
- b. both the triangles have equal bases and equal height.

1 2 3 4 5

132. Is $a + b + c = 0$

- a. $a^3 + b^3 + c^3 = 3abc$
- b. $a = b = c$

1 2 3 4 5

133. $x + \sqrt{xy} + y = 2$ what is the value of $x - \sqrt{xy} + y$

- a. $x + y = 1$
- b. $x^2 + xy + y^2 = 6$

1 2 3 4 5

134. What is the value of x , x and y are real positive nos.

- a. $x + y = 5$
- b. $x^2 - 150$; $y^2 = 15$

1 2 3 4 5

135. Is $a > b$, a and b are positive integer

- a. $a + b = 0$
- b. $4a^2 > 7b^2$

1 2 3 4 5

136. Which is the worst of the 3 bad movies a , b , c

- a. b is worse than c
- b. c is better than A

1 2 3 4 5

137. Is Jimmy fatter than Williamson

- a. Jimmy is fatter than Charlie, Ramu Dilip
- b. Williamson is leaner than Charlie, Jimmy Ramu

1 2 3 4 5

138. The man who finally became the minister was a member of both the councils (A B) Was it Mr. Bulchandani

- a. Mr. Bulchandani was a member of council A
- b. Mr. Bulchandani was a member of council B

1 2 3 4 5

139. Either P or Q wrote the famous Poem. Was it Q ?

- a. A member of line Central library who is not a member of the university library wrote it
- b. P is a member of the university library.

1 2 3 4 5

140. Is the Quadrilateral ABCD a rectangle

- a. It is a cyclic Quadrilateral
- b. angle A = 90°

1 2 3 4 5

141. $PQ = 0$, Is R negative

- a. $Q = R$
- b. $R > P$

1 2 3 4 5

Directions for questions 142 to 151

Each question is followed by 2 statements

Mark (1) if statement I alone is sufficient but statement II alone is not sufficient

Mark (2) if statement II alone is sufficient but statement I alone is not sufficient

Mark (3) if both statements I & II together are sufficient but neither statements alone is sufficient

Mark (4) if each statement alone is sufficient

Mark (5) if statement I & II together are not sufficient.

142. No grandson of Raja is poor. Is Mr. Deenanath poor?

- a. Nath is Raja's son
- b. Nath is Deenanath's father.

1 2 3 4 5

143. All the sons of C are clever. Is A clever ?

- a. A is N's grandson
- b. C is N's son

1 2 3 4 5

144. Is P cheaper than Q?

- a. P is inferior in quality than Q
- b. Neither P nor Q is cheap.

1 2 3 4 5

145. If P is an integer, is $P/7$ an even number

- a. P is a multiple of 5
- b. P is a multiple of 10

1 2 3 4 5

146. $\angle P$ in triangle PQR is $= 60^\circ$ Is side Q side R

- a. Orthocentre of the triangle is centroid of the triangle.

b. $Q + R = 120$

1 2 3 4 5

147. A is a prime number. B is another prime number. Is AB divisible by 3

a. AB ends in 1

b. $A + B = 30$

1 2 3 4 5

148. Is P Q R, P,Q, R are real numbers

a. $3P = Q$

b. $Q + R = 4$

1 2 3 4 5

149. Is AB 25

a. 5 A 9

b. 3B 12

1 2 3 4 5

150. $\frac{1}{p} \frac{1}{q} \frac{1}{r}$. Is pqr

a. $p + q = 3$

b. $q + r = 5$

1 2 3 4 5

151. What will be the age of Laloo five years hence

a. Kaloo's father was 45 when he was 15

b. Laloo's father now is 55

1 2 3 4 5

Passage-3

The candidates in a Meeting must ask themselves questions such as these:

Why are we gathered here? What do we are supposed to do? At the end of the meeting , what should we have attained? Truthful answers to these questions should go to clearly fix the aim of the meeting. The manner the aim is perceived by the group will to a large extent determine the effectiveness of the meeting. Next, identifying members who need to attend to achieve the defined purpose is equally crucial. Frequently people who have no role whatsoever are asked to join in a meeting to give the appearance of a 'full room'. This could spell disaster since other participants who are determined to attain something as the meeting, may feel less sincerely tending to give out their best contribution. Besides, such unwanted invitees waste their time as well as others, demoralising the letter. Further, a clear and well as others, demoralising the letter. Further, a clear and well thought of agenda must be adopted so that the path to goal achievement would become visible sooner. Constructing a good agenda involves all the aspects of the issue under consideration in a thematic manner. If the differing stands of any groups are known in advance, the agenda must be drawn to accommodate these, so that everyone gets an opportunity to speak out his opinion. Roles need to be well-defined at the commencement of the meeting. A facilitator must be designated specifically to guide the discussions, encourage participation, match and space differing view-points. The responsibilities of time management, generating creative options, also must be designated, according to the purpose of the meeting to facilitate the accomplishment of its goal.

152. The effectiveness of a Meeting depends on

- the number of people who attend it.
- the way the candidates perceive its purpose.
- the time at which it starts.
- all of the above.

153. Undesired invitees to a meeting will

- dilute the seriousness of the meeting.
- waste the time of other participants and their own.
- demoralise more seriously inclined candidates.
- all of the above.

154. A well-set agenda helps

- the candidates to see the path to the goal clearly and quickly.
- to clarify the role of candidate
- to accommodate the differing stands of some groups.
- [1] and [3]

155. A facilitator at a Meeting guides discussions, and encourages participation with a view to

- help every member keep before him the goal of the meeting.
- to facilitate writing the minutes of the meeting.
- to help every member play his role effectively.
- [1] and [3] only.

Passage- 4

Let's try to be clear as to what religion isn't. Firstly, it isn't morality. It isn't being good or doing good. Many atheists have been exceptionally virtuous people, and many genuinely religious people have been exceptionally weak. This does not mean that religion isn't concerned about our behaviour. Of course it is: in fact, it adds its own severer penalties to those which nature and society impose upon the offender. More serious still, bad behaviour- even ordinary, respectable self-seeking – upsets a religious man's relationship with the Divine, and is apt to leave him weak and lonely and miserable. Nevertheless, religion isn't matter of how we act outwardly but rather of the inner attitude from which our behaviour springs. For instance, Ram and Sheela can do precisely the same thing in the same way (such as giving their lives to save a drowning man) yet the inside story is quite different. Sheela acts out of a sense of social duty or humanitarian compassion, whereas Ram may act from a motive which means nothing to Sheela – from a love for God which is necessarily love for all God's creatures, or even identification with them. Ram feels he is that drowning man.

156. A man who is religious but bad in behaviour

- pretends to do good at times in order to earn God's forgiveness.
- thinks always of evil while talking of doing good.
- upsets his relationship with his Maker.
- preaches good behaviour to others.

157. Which of the following statements is false?

- Penalties imposed by religion are more severe than those by nature or society.
- When a man feels weak, lonely or miserable he has necessarily indulged in bad behaviour.
- Religion does not mean being good or doing good.
- Some religious minded people are exceptionally wicked.

158. In the example of Ram and Sheela, the message that the writer conveys is that

noble acts need not stem from social or humanitarian motives.

we act selflessly, as from social or humanitarian motives, as from our inner attitude to love God and his creatures.

love of God and his creatures is nobler than the love of one's fellow-beings.

love of one's fellow-beings is same as the love of God.

159. In the author's perspective, bad behaviour must include behaviour which is

rude

ordinary

unthinking

irresponsible

160. The writer says that a truly religious man is one who behaves

after consulting his conscience.

according to his inner attitude to doing good.

keeping in mind how others will view his behaviour.

according to his ideas of heaven and hell.

Passage - 5

The most formidable animal in the forests, that grew around the Mediterranean eight thousand years ago was the great reindeer. It stood six foot high at the shoulders and weighed about a ton. Apart from eye-witness account we know their dimensions from their fossilised bones and, more importantly, their appearance from the superb portraits of them painted by prehistoric man, particularly in the cave of Lascaux in Central France. It is possible that the act of painting played a part in the rituals designed to bring success in hunting and to ensure the continued fertility of the creatures on which people depended for food. Opposed to this is the view that at the time the paintings were made, the game was so abundant that magic was hardly required to find it. Whatever the differing views about the reindeers' role in the ritual, it is clear that by 8000 BC at the eastern end of the Mediterranean Sea, the reindeer had dominated the minds of the men who held it great respect. In Catal Huyuk in Central turkey, one of the earliest big towns to have developed around 6400 years age, the excavator found in several shrines reindeer's heads modelled in clay protruding from the walls. It is not certain that the people of Catal Huyuk offered the reindeer for sacrifice but their domestication led to the reduction of reindeers' size, both in body and in horns. But it is Memphis, capital of ancient Egypt around 2000BC that the reindeer commanded the highest respect, taking its place among other important deities in all Egypt.

161. Catal Huyuk was a big town in Central turkey

3000 BC

6400 BC

10000 BC

9000 BC

162. The evidence of reindeer worship in Catal Huyuk can be seen in

terra cota pottery

clay tablets.

reindeers' heads in clay

stylised ornaments of reindeer

163. The reindeer found its highest expression as a deified being in

Catal Huyuk

Sumeria
ancient Egypt
Babylon

164. the Lascaux painting of the reindeer's portraits signify

prayers for protection of animal from nature's fury.
prayers for rains
appeasement of gods.
rituals for successful hunting.

165. All of the following are true, except

Memphis was the capital of ancient Egypt.
domestication of the reindeer by the people of Catal Huyuk affected its size.
in the forests around the Mediterranean sea the reindeer was 6 foot high at the shoulders.
The size of the prehistoric reindeer can be gauged from stone inscriptions.

Directions for Qs 166 to 171

Passage 1

A, B, G and T are robots and P, Q, R, S, T & U are machines. No robot can be assigned to more than 1 machine at the same time.

- A and B are required to run machine T
- B and G are required to run machine R
- G and T are required to run Machine P
- Machine Q can be run by only A
- Machine S and U can be run by any of the robots independently

166. If machine Q is running which other machines cannot run simultaneously?

P&S R T S&T

167. What is the maximum no of machines that can run simultaneously?

2 3 4 5

168. What is the maximum no of robots that will remain idle with a combination of 3 running machines?

0 1 2 3

Passage 2

Salman Khan has not decided on which of the 4 novels to buy. He is considering a thriller, mystery, romance and a fiction novel. The books are written by R, G, B, H and published by H, P, B and S and not necessarily in that order. The book by R is published by S The thriller is published by H The fiction novel is by B and is not published by B The romance is by H

169. P publishes

mystery fiction novel by R none of these

170. The novel by G is

A fiction novel

A thriller published by Hr

published by Hr is a mystery

published by P and is a romance

171. Salman Khan purchases books by the 2 authors whose names come first and third in the alphabetical order. He does not buy

the mystery

the book published by P

the fiction novel

the romance novel

Directions for questions 172 to 185: Each question below contains six statements followed by four sets of combinations of three. Choose the set in which statements are logically related.

172. A. Suresh and Seema are married.

B. Suresh and Seema were paired at the game

C. Suresh knows Seema well.

D. Suresh loves Seema.

E. Only married couples are paired at the game.

F. None of those paired at the game are married.

BFD

BEA

AEF

ACD

173. A. Most bags are made of leather.

B. Bags are made of leather.

C. This item is not a bag.

D. This item is a bag.

E. This item is not made of leather.

F. This item is made of leather.

ADF

BCE

AEF

BDF

174. A. CAs are ambitious.

B. Ambition is a characteristic of all CAs.

C. Atul is a CA.

D. Atul is not ambitious.

E. All ambitious people are CAs.

F. Atul is ambitious.

ACE

CFE

BCF

ADE

175. A. Some men are doctors.

B. Some men are not doctors.

C. All doctors are graduates.

D. Some women are not graduates.

E. Some men are not graduates.

F. Some graduates and women are not doctors.

DAE

CBA

DCB

CEB

176. A. Some women are aggressive.

B. Aggressive women are unpopular.

C. Anita is a woman.

D. Anita is aggressive.

E. Anita is unpopular.

F. All women are unpopular.

CDB	EBF	BDE	ABF
-----	-----	-----	-----

177. A All football players play good cricket.
B. Many basket ball players are not good football players.
C. Naresh is a good football player.
D. Naresh plays good cricket.
E. Suresh plays cricket well.
F. Suresh plays football badly.

ECA	EBF	ABD	ACD
-----	-----	-----	-----

178. A All horses are friendly.
B. All horses are honest.
C. All horses are animals.
D. All horses need food.
E. All animals need food.
F. All animals need shelter.

CDE	BCD	CEF	ABC
-----	-----	-----	-----

179. A No CA is a good manager.
B. Some CAs are not unprofessional.
C. Some good managers are unprofessional.
D. No good manager is unprofessional.
E. Some good managers are CAs
F. All CAs are unprofessional

BCE	ADF	BDE	ABE
-----	-----	-----	-----

180. AAll Italians are hardworking.
B.Some Italians are not hardworking.
C.Italians are thrifty.
D. Rome is populated only by Italians.
E. Some Romans may not be hardworking.
F. Some Romans are not hardworking.

BDF	BDE	ADE	DEF
-----	-----	-----	-----

181.A. All Americans are truthful in speech.
B. No American can speak.
C. Some Americans are truthful in speech.
D. Peter is an American.
E. Peter claims to have lied.
F. Peter is unable to claim that he has lied.

DEA	FDC	BCA	ADF
-----	-----	-----	-----

In the following questions a statement is followed by 2 possible implications. Pick up one of the answer choices which is applicable to the question.

(A) Only I is an assumption
(B) Only II is an assumption
(C) Both I and II are assumptions
(D) Neither I or II is an assumption

182. Statement: Only the wearer knows where the shoe bites

Assumptions:

(I)A shoe bites only the bearer

(II)Only wearers have a sense of feeling

A B C D

183. Statement: Only professionals can be employed. Hence you cannot be employed

Assumptions:

(I)A professional is required

(II)you are not a professional

A B C D

184. Statement: The government has increased the price of diesel

Assumptions:

(I)The price of diesel was low

(II)People opposed this increase

A B C D

185. Statement: The best aid to happiness is friendship

Assumptions:

(I)There are many aids to happiness

(II)Man lives for happiness

A B C D

Explanation to CAT Exam Paper 2

1 [2] 2 [3] 3 [4] 4[1] 5[3] 6[3] 7[2] 8[2] 9[4] 10[1]

11[1] 12[1] 13[3] 14[3] 15. [1] 16[2] 17[3] 18[2] 19[1] 20[2]

21[1] 22[2] 23[4] 24[2] 25[3] 26[4] 27[2] 28[2] 29[3] 30[4]

31.[4] 32.[3] 33. [4] 34.[4] 35.[4] 36.[4] 37.[3] 38.[1] 39. [4] 40.[4]

41.[3] 42.[2] 43.[2] 44. [3] 45. [1] 46. [3] 47. [2] 48. [3] 49. [2] 50. [1]

51. [2] 52. [3] 53. [2] 54. [3] 55. [4] 56. [1] 57. [2] 58. [3] 59. [1] 60. [4]

61. S.I = $60,000 * 10 / 100$

= Rs. 6000

Rent received = $1500 * 12$

= 18000

Therefore debt cleared in one year = $18000 - 6000$

=12000

Therefore in 5 years.

$$\begin{aligned}
 62. \quad & 800 - 600 = 200 \\
 & n = 6 \text{ months.} = 1/2 \text{ year} \\
 & r = 100 I / Pn \\
 & = 100 * 15.50 / 200 * 1/2 \\
 & = 1550 / 100 \\
 & = 15.5\%
 \end{aligned}$$

$$\begin{aligned}
 63. \quad & A = P (1 + r/100)^2 (1 + r/100) \\
 & = 2400 (1 + 5/100)^2 (1 + 2 1/2/100) \\
 & = \text{Rs. } 2712.15 \\
 & \text{Therefore C. I.} = 2712.15 - 150; 2400 \\
 & = \text{Rs. } 312.15
 \end{aligned}$$

$$\begin{aligned}
 64. \quad & \text{Perimeter of square} = 4a = 4 * 45 \\
 & = 180 \text{ m} \\
 & \text{Length of fence} = 10 * 180 \\
 & = 1800 \text{m. with 10 lines of wire.} \\
 & \text{Therefore cost of wire} = 1.50 * 1800 \\
 & = \text{Rs. } 2700
 \end{aligned}$$

$$\begin{aligned}
 65. \quad & \text{External volume} = l * b * h \\
 & = 10 * 6 * 4 \\
 & = 240 \text{ cm}^3 \\
 & \text{Internal dimensions} = (10 - 2); (6 - 2); (4 - 2) \\
 & = 8 , 4 , 2 \text{ cm.} \\
 & \text{Internal volume} = 8 * 4 * 2 \\
 & = 64 \text{ cm}^3 \\
 & \text{Therefore volume of cube} = 240 - 64 \\
 & = 176 \text{ cm}^3
 \end{aligned}$$

$$\begin{aligned}
 66. \quad & \text{Let radii} \rightarrow 2x \text{ and } 3x \\
 & \text{Let height} \rightarrow 5y \text{ and } 3y \\
 & V_1 / V_2 = (22/7) (2x)^2 (5y) / (22/7) (3x)^2 (3y) \\
 & = 20 / 27
 \end{aligned}$$

$$\begin{aligned}
 67. \quad & \text{Diameter of a roller} = 60 \text{ cm} \\
 & r = 30 \text{ cm} = 0.30 \text{ m} \\
 & \text{Height of roller} = 1.00 \text{ m} \\
 & \text{Curved surface area} = 2 (22/7) rh \\
 & = 2 * (22/7) * 0.30 * 1 \\
 & = 1.32 / 7 \\
 & = 0.88 \\
 & \text{Area covered by roller} = 500 * 0.88 \\
 & = 88 * 5 \\
 & = 440 \text{ cm}^2 \\
 & \text{Therefore cost of levelling} = 0.50 * 440 \\
 & = 5 * 44 \\
 & = 220
 \end{aligned}$$

$$\begin{aligned}
 68. \quad & \text{Since } a+b+c = 0 \\
 & a+b = -c \\
 & (a+b)^2 = (-c)^2 \\
 & a^2 + 2ab + b^2 = c^2 \\
 & a^2 + b^2 - c^2 = -2ab \\
 & (a^2 + b^2 + c^2)^2 = (-2ab)^2 \\
 & \text{or} \\
 & a^4 + b^4 + c^4 + 2a^2b^2 - 2b^2c^2 - 2c^2a^2 = 0
 \end{aligned}$$

$$2a^2 = 4a^2b^2$$

or

$$a^4 + b^4 + c^4 = 2a^2b^2 + 2b^2c^2 + 2c^2a^2$$

or

$$= 2(a^2b^2 + b^2c^2 + c^2a^2)$$

$$a^4 + b^4 + c^4 / a^2b^2 + b^2c^2 + c^2a^2$$

$$= 2$$

69. Let x be the total value of the property.

$$x = x/2 + x/4 + 1/5x + 10000$$

$$= (10+5+4)x/20 + 10000$$

$$= 19x/20 + 10000$$

$$= 20 \times 10000$$

$$= 200000$$

$$70. \quad m/n = 2/3$$

$$3m = 2n$$

$$\text{now, } 3m + 5n/6m - n = 2n + 5n/4n - n = 7n/3n = 7/3$$

$$71. \quad a + b = 27$$

$$5a + 11b = 195$$

solving simultaneously we have,

$$a = 17 \quad b = 10$$

$$72. \quad 40\% \text{ of } 5/6 = 40/100 \times 5/6 = 1/3$$

73. 3 leaps of the dog = 4 leaps of the hare.

1 leap of the dog = $4/3$ leaps of the hare.

4 leaps of the dog = $16/3$ leaps of the hare.

Speed of the dog : Speed of the hare

16: 15

74. 9 days earlier mean that the work should be completed in $(42-9) = 33$ days.

$$\text{No. of Men} = 42 \times 55/33 = 70$$

$$\text{Hence the no. of extra men} = 70 - 55$$

$$= 15 \text{ men}$$

$$75. \quad \text{Total cost of the electronic buzzer} = \text{Rs.}215 + \text{Rs.}25 = \text{Rs.}240$$

$$\text{Selling Price} = \text{Rs.}300$$

$$\text{Profit\%} = 60/240 \times 100 = 25\%$$

$$76. \quad 7500 \times 20\% = 1500$$

$$\text{No of valid votes} = 6000$$

$$45\% \text{ of } 6000 = 2700$$

Hence[1]

77. At the speed of 60 kmph, aunt will reach nashik in 4 hours.

The distance between mumbai and nashik is 240 kms.

If 120 km are to be covered in 3 hours then aunt should travel at the uniform speed of

$$120/3 = 40 \text{ kmph}$$

78. If x and y are the ages of Nitya and Nitya's aunt,

$$x + y = 63$$

$$y - x = 4(x - 4)$$

we have Nitya's age = 15 years

her aunt's age = 48 years

79. First watch ticks after 95/90 seconds.

second watch after 323/315 seconds.

$$\text{LCM} = 19 \times 5 \times 17/45 \text{ seconds.}$$

No. of times they will tick in first 3600 seconds = $3600/(19 \times 5 \times 17)/45$
 Once they have ticked together in the beginning, 50 in 1 hour they tick $100+1 = 101$ times

80. If area = S, Sides = \sqrt{S}
 If side is doubled i.e. $2\sqrt{S}$
 area = $\{2\sqrt{S}\}^2$
 = 4S

81. Let a and b be the numbers where b is the bigger number.
 $b = 3/2a$
 $a-b = 2400$ (given)
 $3/2a^2 = 2400$
 $a^2 = 1600$
 $a = 40$

82. $6M = 8W$, $2W = 3B$, $4B = 5G$
 $1G = \text{Rs. } 50$ a day.
 Now, $1B = 5/4G$ $1W = 3/2 \times 5/4G$
 $1M = 8/6 \times 3/2 \times 5/4G = 5/2G$
 $1M = 5/2 \times 50 = 125/-\text{Rs.}$

83. The distance covered by the train in 30 seconds = $6000/3600 \times 30$ metres
 = 500 metres.
 Length of the Bridge = 500 - 150
 = 350m.

84. If we assume that the sum = Rs. 100
 Then, 1st rate of interest = $100 \times 100 / 100 \times 5 = 20$
 2nd rate of interest = $200 \times 100 / 100 \times 12 = 16 \frac{2}{3}$
 $76n_1 = 5$, $x_1 = 42.2$ $n_2 = 4$, $x_2 = 35.5$
 $x_{12} = \frac{n_1x_1 + n_2x_2}{n_1 + n_2}$
 = $\frac{5 \times 42.2 + 4 \times 35.5}{9}$
 = $\frac{211.0 + 142.0}{9}$
 = $\frac{353}{9}$
 = $39 \frac{2}{9}$

85. $6 \frac{1}{3}$
 Hence[1]

86. Area of the four walls.
 = $2(\text{length} + \text{breadth}) \times \text{height}$
 = $2(30 + 20) \times 12$ sq. metres
 = 1200 sq. metres
 Total cost of painting = Rs. $1200 \times 12 / 100$
 = Rs. 300

87. Product of $3\sqrt{4}$, $6\sqrt{6}$, $2\sqrt{5}$ is
 $4^{1/3} \times 6^{1/6} \times 5^{1/2}$
 = $4^{2/6} \times 6^{1/6} \times 5^{3/6} = (4^2 \times 6 \times 5^3)^{1/6}$
 = $(16 \times 6 \times 125)^{1/6}$
 = $6\sqrt[6]{12000}$

88. A takes 6 hours to complete a work.
 He can complete $1/6$ th of the work in one hour. (taking complete work as 1.)
 B takes 8 hours to complete it.
 He can complete $1/8$ th of the work in one hour.
 Together, A and B can complete,
 $1/6 + 1/8 = 14/48 = 7/24$ of the work.
 Hour Work

$$1 \quad 7/24$$

$$? \quad 24/24$$

$$= 24/7 = 3 \frac{3}{7}$$

Hence, [1]

89. In one hour, C can complete $1/12$ th of the work.

In two hours, he can complete $1/12 \times 2 = 2/12$ th of the work.

A and B start work simultaneously,

together work completed by A and B,

$$1/6 + 1/8 = 14/48 \text{ work} = 7/24 \text{ work.}$$

In 2 hours they complete $7/24 \times 2 = 7/12$ work

$$\text{Total work done by A,B,C} = 7/12 + 2/12 = 9/12$$

Total work to be completed = $12/12$ or 1

Remaining work = $3/12$

Hour work done by A

$$1 \quad 1/6$$

$$? \quad 3/12$$

$$3/12 \times 6 = 1.5 \text{ hours}$$

Hence[2]

$$90. /4, \times 7$$

Hence[1]

91. In 1 hour C can empty $1/8$ th of tank

In 1 hour amount of water filled in the tank = $A+B-C$

$$= 1/6 + 1/10 - 1/8$$

$$68/480 = 17/120$$

Hour Water filled in tank

$$1 \quad 17/120$$

$$? \quad 120/120$$

$$= 120/17 = 7.05 \text{ hours}$$

92. Let the present ages of Ram and Shyam be R and S resp.

$$3R - 2S = 10 \text{ -- I}$$

$$4S - 5R = 10 \text{ -- II}$$

$$15R - 10S = 50$$

$$-15R + 12S = 30$$

$$2S = 80$$

$$S = 40$$

$$R = 30$$

Hence,[1]

93. Let their present ages be A and B.

$$3A - B = 100 \text{ -- I}$$

$$2A - B = 50 \text{ -- II}$$

$$3A - B = 100$$

$$-2A - B = 50$$

$$A = 50$$

$$B = 50$$

Sum of their ages = $A+B$

$$= 100$$

Hence[2]

94. Let their present ages be X and Y.

$$X+Y = 105 \text{ --I}$$

$$1.5X - 2Y = 0 \text{ --II}$$

$$X = 60$$

$$Y = 45$$

Hence[4]

95.	M	D	H	L
old	10	20	5	20
new	x	5	10	100
$10/x = 5/20 \times 10/5 \times 20/100$				
$x = 100$				

$$\begin{aligned}
 96. a^4 + b^4 &= (a^2 + ab + b^2)(a^2 - ab + b^2) \\
 &= (a^2 + 4a + 8)(a^2 - 4a + 8) \\
 &= (a^2 + 8)^2 - (4a)^2 \\
 &= a^4 + 64 \\
 \text{Hence[3]}
 \end{aligned}$$

97. $x = 10 \times 2 = 20$ days
 100 men would require 20 days from 46 days
 $46 + 20 = 66$ days
 But we want to complete the work in 56 days.
 Hence[1]

98. Exam 1 = $30/50 \times 100 = 60\%$
 Exam 2 = $40/50 \times 100 = 80\%$
 Increase in percent = 20%
 percent in increase = $20/60 \times 100 = 33 \frac{1}{3}\%$

99. a) $30/100 \times 60/100 = 18/100 = 18\%$
 b) 30% is 50% of 60%
 c) 60% is 200% of 30%

100. a) Old price of sugar = Rs.10/-
 New price of sugar = Rs.12.5/-
 Old consumption = $(10 \times 100) = 1000$
 New consumption = $(12.5 \times x) = 1000$
 $x = 1000/12.5 = \text{Rs.}80/-$
 Decrease in consumption = $20/100 \times 100 = 20\%$

b) old price = Rs.10
 New price = Rs.15
 $10 \times 100 = 1000$
 $15 \times x = 1000$
 $x = 1000/15 = 66.66 \text{Rs.}$
 Decrease in consumption = 33.33%

101. a) Let my cost price be 100
 Selling price = 90
 Profit for Mr. X = 10
 Profit % = $10/90 \times 100 = 11.11\%$
 b) Let cost price be 100
 Selling Price = 900
 My loss = 10 = $10/100 \times 100 = 10\%$

102. Let cost price be 100 of both horses.
 horse1 = S.P. = 110
 horse 2 = S.P. = 90
 Total cost price = $100 + 100 = 200$
 total selling price = $110 + 90 = 200$
 Hence[3]

103. Horse 1-	C.P.	S.P.
	x	100
	?	120

$$S.P. = C.P. (100 + \text{profit}\% / 100)$$

$$x = 83.33$$

Horse 2-	C.P.	S.P.
	y	100
	?	80

$$y = 125$$

$$\text{Total cost price} = \text{cost price of Horse1} + \text{cost price of Horse2}$$

$$= 125 + 83.33 = 208.33$$

$$\text{Total S.P.} = 100 + 100 = 200$$

$$\text{loss} = 8.33$$

$$\% \text{ of loss} = 4\%$$

Hence[2]

104. 3 years - 2 times

6 years - 4 times

9 years - 6 times

12 years - 8 times

105. In 60 min - box is full.

In 59 min - box is half filled.

In 58 min - box is 1/4 filled.

hence[3]

$$106. A = 100(1 + 10/100)^2$$

$$= 100(110/100 * 110/100)$$

$$= 121$$

107 . Income = Rs.10/-

$$20\% * 50 = 10$$

$$\text{capital gain} = 55 - 45 = 10$$

$$\text{gain} = 10 + 10 = 20$$

$$\% \text{ gain} = 20/45 * 100 = 44.45\%$$

108. Suppose goods cost him Rs.1/kg, then he sells goods costing Rs. 0.95 for Rs.1/-

$$\text{gain} = 1 - 0.95 = 0.05$$

$$\% \text{ gain} = 0.05/0.95 * 100 = 500/95 = 5\%$$

Hence[1]

109. Let r be the rate of interest.

$$600 * 2 * r / 100 + 150 * 4 * r / 100 = 90$$

$$1200r / 100 + 600r / 100 = 90$$

$$r = 5$$

Hence[2]

110. p = Rs.455, n = 4months = 1/3 year, rate = 5%

$$\text{Amount of Rs.100} = (455 * 1/3 * 5) / 100 = 107.58$$

455	?
107.58	100

$$= 423$$

q = Rs.450, n = 2months = 1/6 year, rate = 5%

$$\text{Amount of Rs.100} = (450 * 1/6 * 5) / 100 = 103.75$$

450	?
103.75	100

$$= 434$$

$$\text{Sum to be repaid to p} = 434 - 423 = \text{Rs.11}$$

Hence [3]

111. The total cost of the new projects is $125+150+235=\text{Rs}510\text{crores}$
Hence [2]

112. Hotel Centaur has the lowest cost per room
Hence [1]

113. The average number of rooms to be completed in the 2 years
 $= (250+350+450)/2$
 $= 525$
Hence[1]

For questions 114 to 116 refer to the table below

Students	Rejected applications	% of applications accepted	No of applications made
P	150	95	3000
Q	200	90	2000
R	175	65	500
S	300	50	600
T	225	45	500

114.[2] 115.[1] 116.[1]

For questions 117 to 119 refer to the following table

Year	Sales Volume	Sales Value (Rs mn)
1957	1500	35000
1958	3000	45000
1959	4000	40000
1960	6000	65000

117.[4] 118.[2] 119.[4]

For questions 120 to 121 refer to the following table

Commodity	%
Tea	45%
Coffee	20%
Rubber	15%
Sugar	15%
Others	5%

Commodity	%
Tea	38%
Coffee	37%
Rubber	12%
Sugar	10%
Others	3%

120.[4] 121.[1]

122. From statement I à Amount of debt and the amount he will pay off is known.

Hence [1]

123. From statement I à only no. of hours is known.

From statement II à We can find out no. of letters

Hence [2]

124. Let length of bridge be x .

$$\frac{1}{3}x + 820 + \frac{1}{4}x = x$$

We can find out the length.

Hence [3]

125. Solving the two statements, we get multiple solutions. Hence we cannot derive the answer.

Hence [5]

126. From statement I à $x + y + \frac{p}{3} = 10$

From statement II à $x + y = 0$

Hence value of p can be found.

Hence [3]

127. Both the statements are required to find the cost. **Hence [3]**

128. From statement I à If the numbers $a, a+1, a+2$, then the sum of the 1st two numbers is definitely greater than the third.

Hence [1]

129. From statement II à we can find capacity of tank B which is 36 liters combined we can find the answer.

Hence [3]

130. From statement I à we get the volume of spirit

From statement II à we get the rate of evaporation.

Hence [3]

131. The condition for congruency of two triangles is that the 2 triangles should be equilateral with the same base. In this case, it can be obtained from both the statement. **Hence [3]**

132. It cannot be answered with both the statements. **Hence [5]**

133. From statement 1 -- $x + y = 1$ $\sqrt{xy} = 1$

statement 1 alone is sufficient

Hence [1]

134. from statement 1 -- $x + y = 5$

$$y = 5 - x$$

from statement 2 -- $x^2 - 150; y^2 = 15$

$$x^2 - 150; (5 - x)^2 = 15$$

Hence [3]

135. From statement 2

$$\frac{a^2}{b^2} = \frac{7}{4}$$

$$\frac{a}{b} = \frac{\sqrt{7}}{2}$$

$\frac{a}{b}$

Hence [2]

136.5 From statement 1 -- b is worse than C

From statement 2 -- c is better than A

but amongst A, B which is better is not known

Hence [5]

137. From statement 2 -- Williamson is leaner from Jimmy. **Hence [2]**

138. From statement 1 -- Mr. Bulchandani was a member of council A
From statement 2 -- Mr. Bulchandani was a member of council B. **.Hence[3]**

139. P has not written the book as he is a member of the university library.Q has written it..**Hence[3]**

140. From both the statements we cannot derive if ABCD is a rectangle..**Hence[5]**

141.We cannot say whether R is negative from either of the statements.**Hence[5]**

142. From statement 1-- Nath is the Raja's son.
From statement 2 -- Deenanath is Raja's grandson.
Hence[3]

143. From statement 1 2 we derive that A is C's son. **Hence[3]**

144. Both are irrelevant to the question. **Hence[5]**

145. Both are not sufficient.**Hence[5]**

146. Since the orthocentre of the D is the centroid, it is an equilateral triangle.**Hence[1]**

147. Both are not sufficient.**Hence[5]**

148. Both are not sufficient.**Hence[5]**

149. As there will be multiple answers to A and B, its difficult to find the value of AB.**Hence[5]**

150. Both are not sufficient.**Hence[5]**

151. From statement (1) and (2) we get Laloo's current age which is 25.**Hence[3]**

152. The ultimate effectiveness of the Meeting lies in the manner in which each participant perceives the goals and aims for which it has been convened. Hence, the answer is [2].

153. Unwanted invitees to the meeting will waste their own as well as others' time and will demoralise the serious candidates who really wish to make a contribution. Hence, the answer is [4].

154. According to the author, a well-set agenda helps make visible the path that leads to the achievement of the goal and allows space for differing goals of the group in advance. It does not clarify the goals of each and every member. Hence, the answer is [4].

155. According to the author, a facilitator has to guide the discussions on the right track, to allow for different view-points to emerge and space them thematically. Hence, the answer is [4].

Passage- 4

156. A man may be religious, but if he misbehaves he upsets his relationship with his Maker.
Hence,[3]

157. Sentence 4 states that when man indulges in bad behavior he upsets his relationship with his Maker and feels weak, lonely. This does not imply that whenever he feels so he has indulged in bad behavior. His negative feelings may have been caused by some other reasons. Hence, [2]

158. Acts of selflessness may be prompted by either social duty or humanitarian compassion or from a love of God which is necessarily love of god's creatures, as proved respectively in Sheela and Ram's example. Hence, [2]

159. In the author's opinion bad behavior must also include ordinary, respectable, and self-seeking behavior.
Hence, [2]

160. According to the author, religion is not merely how we act outwardly but is is also concerned with that inner attitude from which our behavior springs. Hence, [2]

Passage- 5

161. See sentence 6 of the passage. Hence, [2]

162. See sentence 7 of the passage. Hence, [3]

163. See the last sentence of the passage. Hence, [3]

164.The Lascaux painting of the reindeer signifies the rituals of success in hunting and ensuring the fertility of the creatures on which people depended for food. Hence, [4]

165. The size of the prehistoric reindeer cannot be guaged from stone inscriptions as stated in option 4 but from their fossilised bones. Hence, [4]

166. If Q is running A is occupied. Hence only T cannot run [3]

167.The maximum no of machines that can be run simultaneously are3 because the possible combination is only when machines S,U +P/Q/R or T are working. [2]

168.When machines Q, S, U are working 3 robots are required. Hence 1 will remain idle. [2]

The following table explains the questions 169 to 171

Novels	Author	Published
Mystery	R	S
Thriller	G	Hr
Fiction	Bu	P
Romance	Ho	BI

169. [2]	170. [2]	171. [1]	172[2]	173[2]	174[3]	175[4]
176[3]	177[4]	178[1]	179[2]	180[2]		
181[4]	182[4]	183[1]	184[4]	185[1]		