No. of Sections: 4No. of Questions: 82

• Total Duration: 105 min

3

None of these

10tai Dui	ation. 100 min
	Section 1 - Quantitative Aptitude
	Summary uestions: 25 : 25 min
Addit None	ional Instructions:
Q1.	If log10 (3)=0.4771, find the value of log10 (81)
	0.7
	0.9
	1.1
	1.9
Q2.	What is the value of x in the expression log10 (20 * x) = 3
	500
	50
	2/100
	30/20
	3/20
Q3.	Find the value of log1 + log2 + log3.
	1
	2

2 log5 (17)
log5 (17)
log5 (17^18)
0.5 log17
2 log(12^5) (17)
117 * 117 + 83 * 83 = ?
a) 20698
b) 20578
c) 21698
d) 21268
A
В
C
D
log(3) 9+log(5) 625+log(7) 343 is:
1
-1
2
3
Whats the value of log7 (1/49)
2
1/2
-0.5

Q4.

Evaluate: log(5^3) (17^6)

log 2
log 3
log 4
log 5

Q9. logx^2 (81-24x)=1

Q8.

x=-27 and 3

x=27 and 3

x=-27 and- 3

x=--27 and -3

Q10. What is the value of the following expression: 2 log10 (5) + log10 (4)?

2

2.5

3

None of these

Q11. If $a^x = b^y$, then:

 $\log(a/b) = x/y$

log(a) / log(b) = x/y

log(a) / log(b) = y/x

None of these

10
100
1000
1/1000
If log8 (x) + log8 (1/6) = 1/3 then the value of x is:
12
16
18
24
If $\log x + \log y = \log (x + y)$, then:
x = y
xy=1
y = (x-1)/x
y = x/(x-1)
If log10 (7) = a, then log10 (1/70) is equal to:
-(1 + a)
(1 + a)-1
a/10
1/10a

a^2+b^2 = 7ab

Q12.

If logx (0.1) = -1/3, then the value of x is:

a^2-b^2 = 7ab
(a+b)^2 = 2
(a+b)/3 = (1/2)(a+b)
The value of (loga n) / (logab n) is given by:
1 + loga (b)
1 + logb (a)
loga (b)
logb (a)
The value of 3-1/2 log3 (9) is:
3
1/3
2/3
None of these
a/b is a fraction where a
a/b
(a+n)/(b+n)
both
none
If a, b, and c are in geometric progression then loga (n), logb (n) and logc (n) are in:
AP
GP
HP

Q17.

Q18.

Q19.

Q20.

Q21.	Every time x is increased by a given constant number, y doubles and z becomes three is increased by the same constant number?	ee times. How will log(y) and log(z) behave as x
	Both will grow linearly with different slopes	
	Both will grow linearly with same slopes	
	y will grow linearly, while z will not	
	z will grow linearly, while y will not	
Q22.	f(x) grows exponentially with x, how will $f(log(x))$ grow?	
	Exponentially	
	Linearly	
	Quadratically	
	None of these	
Q23.	What is the value of log512 (8)?	
	3	
	1/3	
	-3	
	-1/3	
Q24.	Let n be the number of different 5 digit numbers, divisible by 4 with the digits 1, 2, 3, numbers. What is the value of n?	4, 5 and 6, no digit being repeated in the
	209	
	192	
	196	
	198	

None of these

Q25.

If log10 (2) = 0.3010, what is the number of digits in 2^64

	19	
	20	
	18	
	None of these	
	Section 2 - Reasoning Ability	
No. of QuDuration:		
Q1.	odd man out 1) AFB 2) MRN 3) KPL 4) RXS 5) none of these	
	AFB	
	MRN	
	KPL	
	RXS	
	None	
Q2.	odd man out 1) CEH 2) PRU 3) PRV 4) MOR	
	CEH	
	PRU	
	PRV	
	MOR	
Q3.	according to recent study in the local municipal elections the candidate who interact and wins their trust will get maximum name recognition in the elections.	ets more with the residents welfare association

Local residents welfare associations are the most important factor in elections in the city.

Maximum name recognition wiill help a candidate win a higher percetage of votes cast during in the election.

residents welfare associations exert a lot of influence over the voting population residing in the city

- 4) For Maximum name recognition a canditate need not spend a lot of money on posters banners advertising campaigns.
- Q4. the fallowing are the criteria for giving 10% bonus to employees 1.the employees should have worked in his/her post for more than 6 months 2.the employee should have been rated as atleast 7/10 of his/her reporting, manager and 6/10 by his colleagues 3.the employee should be a part of atleast one employee engagement activity conducted in his in the office 5. the employee should have (A) worked in the organization for an year and (b) should have had atleast 1 year of work experience prior to this job However a)employess who fulfill condition except (2)should be given 5% bonus b)employees who fulfil all condition(5)should be given 7% bonus should the given employee be 10% bonus?(the case is presented as on 1.12.2012) the fallowing are the criteria for giving 10% bonus to employees 1.the employees should have worked in his/her post for more than 6 months 2.the employee should have been rated as atleast 7/10 of his/her reporting, manager and 6/10 by his colleagues 3. the employee should be a part of atleast one employee engagement activity conducted in his in the office 5.the employee should have (A) worked in the organization for an year and (b)should have had atleast 1 year of work experience prior to this job However a)employess who fulfill condition except (2) should be given 5% bonus b) employees who fulfil all condition (5) should be given 7% bonus should the given employee be 10% bonus?(the case is presented as on 1.12.2012) the fallowing are the criteria for giving 10% bonus to employees 1.the employees should have worked in his/her post for more than 6 months 2.the employee should have been rated as atleast 7/10 of his/her reporting, manager and 6/10 by his colleagues 3. the employee should be a part of atleast one employee engagement activity conducted in his in the office 5.the employee should have (A) worked in the organization for an year and (b) should have had atleast 1 year of work experience prior to this job However a)employess who fulfill condition except (2)should be given 5% bonus b)employees who fulfil all condition(5)should be given 7% bonus should the given employee be 10% bonus?(the case is presented as on 1.12.2012) the fallowing are the criteria for giving 10% bonus to employees 1.the employees should have worked in his/her post for more than 6 months 2.the employee should have been rated as at least 7/10 of his/her reporting, manager and 6/10 by his colleagues 3. the employee should be a part of atleast one employee engagement activity conducted in his in the office 5. the employee should have (A) worked in the organization for an year and (b) should have had atleast 1 year of work experience prior to this job However a)employess who fulfill condition except (2)should be given 5% bonus b)employees who fulfil all condition(5)should be given 7% bonus should the given employee be 10% bonus?(the case is presented as on 1.12.2012) saurabhis the incharge of the employee engagement programming conduction in the office and has been active participant in all initiatives.he is at the post of senior hr management ever since he have joined the organization 1.5 years back.previously he was working withauction.com as the hr manager and had a work experience of 1 year there, owing to his zeal and exuberance, he was rated by 8/10 by his reporting manager and 9/10 by his colleages. He attended the personality development programme twice ever since he joined the organization

employee should be given 10%bonus
employee should be given 7% bonus
employee should be given 5% bonus
employee should not be given any bonus
data insufficient

Q5. a lady runs 18 km towards east and then 24km towards north how far and in which direction is the lady from starting point?

	42km north east
ı	
	42km east
Ì	
	6 km east
Ì	
	30 km north east

the aspects where the film 'bombay' loses out is where commericial film congentially goes away it was too simplistic to address serious issues and failed to translate real life to reel.

Q7.

Q8.

Q9.

edit : manuscript

The film was successful inspite of its short coming	
the film is director aimed at reacting real life on the silver screen	
the film was too simplistic for the audiences taste	
None of these	
Four working ladies A,B,C,&D are sitting around a table 1.A sits opposite to the cool 3.teacher is on the left side of accountant 4.D sits opposite to C 5.C is to the right obeautician What is the occupation of C?	
Beautician	
Teacher	
Accountant	
Cook	
The given signs signify something and on that basis, assume the given statements I and II is/are definitely true. 'A'B' means 'A is greater than B'. 'A B' means 'A is neither smaller than nor equal to B'. 'A\B' means 'A is not smaller than B'. 'A\B' means 'A is neither greater than nor equal to B'. 'A?B' means 'A is neither greater than nor smaller than B'. Statements: M?S Q P,R/P,T\P Conclusions I. M T II.Q\R	to be true and find which of the two conclusions
Only conclusion I is true	
Only conclusion II is true	
Neither conclusion I nor II is true	
Both conclusion I and II are true	
Every one of the following questions consists of a related pair of words, followed b represents a similar relationship to the one expressed in the original pair of words.	
scheme : agent	

	revise : writer	
	mention : opinion	
Q10.	Reptile is to lizard as flower is to	
	petal	
	stem	
	daisy	
	alligator	
Q11.	four working ladies A,B,C,&D are sitting around a table 1.A sits opposite to the cook 3.teacher is on the left side of accountant 4.D sits opposite to C 5.C is to the right o	
	accountant	
	beautician	
	teacher	
	Cook	
Q12.	Based on the given passage find out which of the following statements can be infer According to recent study, in the municipal elections, the candidate who interacts mand wins their trust will get the maximum name recognition in the elections.	
	Local Residents Welfare Associations are the most important factor in elections in the city.	
	Maximum name recognition will help a candidate with a higher percentage of votes cast during the election.	
	Resident?s welfare associations exert a lot of influence over the voting population residing in the city.	
	For maximum name recognition a candidate need not spend a lot of money on posters, banners and advertising campaigns.	
Q13.	FROM chennal to himachal, the new culture vultures are tearing down acres of indiagonal of the tobbed of with a few hundread rupees for an exquisitety carved door or windo foregin dealers and yet more from the drawing shop shophisticates of the western crape of indian architectural wealth can perhaps not wrongly be attribuyed to the unforce.	w which feteches fifty times that much from countriess the reason for such a shameless

indifference.

India provide a rich market for unscrupulous antique dealers

most indian families have heirlooms which can be sold at high prices to europeans and americans. Only indians are not proud of their cultural heritage and are hungry for foreign currency that is easy available in return of artifacts. The environment created by the activist disunity and local indifference is the reason for antique dealers to strive in india. Q14. A+B means A is greater than B A-B means A is equal to B A=B means A Is less than or equal to B A*B means A is less than B A/B means A is not equal to B statement: M-P,O/N,N*M Coclusion: I)M=S II)N*P Only I is true Only II is true Both are correct None of these Q15. Sushil,a salesperson,was asked by his sales manager to meet one of their high profile clients. Due to to his ill health, the sales manager was unable to take updates from sushil about the meeting. Sushil's phone was also switched off. On which day did sushil meet the client? Statements: I)Ravi,one of the sales manager's colleagues tells him that sushil did not visit the client either on Tuesday or on Thursday. II)Vikash,one of the sales manager's colleague tells him that sushil visited the client two days before Ravi contacted the client which was the day after Monday. statement I alone is sufficient to answering the problem question statement II alone is sufficient to answering the problem question. Both statements put together are sufficient in answering the problem question. Both the statements even put together are not sufficient in answering the problem question Either of the statement is sufficient in answering the problem question. in a certain code language SPECIFY is writen as 1916539625 how is ABOUT writen in that code. Q16. 13162120 12162120 12152019

Q17.	Find the next number in the series. 2, 3, 6,18,108,?????	
	54	
	1002	
	216	
	1944	
Q18.	S1: sameer was not been coming since last week S6:since his plasterwill be remove complete bed rest for 15 days Q: He had six fractures and was rushed to the hospital ago S: I think he would be on leave for this whole month	ed after 30 days P:Doctors have advertised him al R:He met with a serious accident a few days
	RQPS	
	PSQR	
	SPRQ	
	QPRS	
Q19.	Choose the correct answer. From the given choices select the odd one out.	
	DFE	
	PRQ	
	MPN	
	SUT	
Q20.	Choose the correct answer. From the given choices select the odd one out.	
	BAK	
	DCM	
	HGO	

	MNW	
Q21.	Choose the correct answer. If North-West becomes East and North-East becomes South and so on, then what d	loes East become?
	South-West	
	North-East	
	North-West	
	South-East	
Q22.	Choose the right answer. From the given anagrams, select the odd one out.	
	OLIVE	
	APPLE	
	LITCHI	
	EGG	
Q23.	Choose the right answer. From the given anagrams, select the odd one out.	
	EGK	
	BEN	
	CGP	
	AEU	
Q24.	Select the right option from the given alternatives. Introducing a woman, a man said,?Her husband is the only son of my father?. How	is the woman related to the man?
	Sister	
	Mother-in-law	
	Daughter	

Wife

	Daughter
	Sister
	Cousin
	Wife
	Section 3 - Verbal Ability
Section 9 No. of Qu Duration:	
Additi None	onal Instructions:
Q1.	Based on the given passage find out which of the statement can be inferred from the drinking water associated with certain type of industrial pollution have been shown economy based entirely on subsistence-level agriculture. Modern industry of any kind unusually high incidence of Hobson's Disease.
	Mercury in drinking water is actually perfectly safe
	Mercury in drinking water must have sources other than industrial pollution.
	Hobson`s Disease must have caused by some other source than mercury in drinking water.
	both options A and B
	both options C and B
Q2.	JAUNTY(opposite)
	A.Youthful
	B.Ruddy
	C.Strong
	D.Unravellled
	E.Sedate

Choose the right answer. Radha is the only daughter of Rakesh?s father-in-law?s wife. How is Radha related to Rakesh?

Q25.

Q3.	The company encourages its managers to interact regularly, without preset agenda the society. This idea has been borrowed from the ancient Indian concept of religio are forgotten during these meetings; hence, it is not uncommon in these meetings Managing Director on some corporate policy or his knowledge of customers	us congregation, called satsang. Designations
	The company is concerned about its reputation with its employees	
	The company believes in fostering the spirit of dialogue without degenerating it into a positioning based debate	
	The company had some inter-personnel problems in the past due to which it felt the need for these corporate satsangs	
	(d)All of the above	
Q4.	Read the passage and answer the questions given below Since the late 1970s when came into being, sex selective abortion has unleashed a saga of horror. Experts are trends indicate India is fast heading towards a million female foetuses aborted each sex selection is a criminal offence in India, the practice is rampant. Private clinics we business. Everywhere, people are paying to know the sex of an unborn child. And patechnology has even reached remote areas through mobile clinics. Dr. PuSneet Bed says these days he hardly sees a family with two daughters. People are getting sex says. If the 1991 Census showed that two districts had a child sex ratio (number of it was 51 districts. Child rights activist Dr. Sabu George says foeticide is the most eagirl is several times more likely to be eliminated before birth than die of various cawomb to be a safe space. Today, doctors have made it the most unsafe space for t doctors must be held responsible? "They have aggressively promoted the misuse of Researchers and scholars use hard-hitting analogy to emphasise the extent of the pand scholar who has done extensive research on the issue, calls the technology "a it as genocide: "More than 6 million killed in 20 years. That's the number of Jews killed Advocacy and Research, Delhi, feels that the PCPNDT Act (Pre-Conception and Pre Prevention of Misuse) is very well conceived and easy to use. The need of the hour implemented. ?The demand and supply debate has been going on for some time. Deare fulfilling it. They argue that social attitudes must change. However, in this case regulated. Technology in the hands of greedy, vested interests cannot be neutral. The able to use it,? she says. On the ?Demand? side, experts such as Dr. Agnihotri argue having disposable incomes and making a contribution to the larger society will make icons and role models such as Sania Mirza are making an impact, he says. Others from the models such as Sania Mirza are making an impact, he says. Others from the problem.? Time we all did our bit to help	calling it "sanitised barbarism". Demographic h year. Although foetal sex determination and with ultrasound machines are doing brisk aying more to abort the female child. The i, obstetrician and specialist in foetal medicine, determination done even for the first child, he girls per thousand boys) less than 850; by 2001 extreme form of violence against women. "Today auses in the first year. Nature intended the he female child," he says. He believes that of technology and legitimised foeticide." broblem. Dr. Satish Agnihotri, senior IAS officer weapon of mass destruction". Dr. Bedi refers to led in the Holocaust." Akhila Sivadas, Centre for Natal Diagnostic Techniques? Regulation and is the legal literacy to ensure the law is octors say there is a social demand and they supply fuels demand. Technology will have to be nere is a law to prevent misuse and we must be at that women?s participation in workforce, are a difference to how women are seen. Youth the left have to be widespread visible the Nithari killings,? says Dr Bedi. ?Today nobody are the girl child. Time?s running out. 2. Select
	Unforgivable	
	Legitimate	
	Free from dirt	
	None of these	
Q5.	S1: Once upon a time an ant lived on the bank of river. P: The dove saw the ant struefforts to come up is failed. R: One day it suddenly slipped in to water. S: A dove live S6: She was touched. The Proper sequence should be:	
	RQSP	
	QRPS	

Q3.

SRPQ	
PQRS	
Read the sentence to find out whether there is any grammatical error in it. The error letter of that part is the answer. Ignore the error of punctuation if any. (A) Everyone respect one's parents.	
A	
В	
С	
NO ERROR	
Avert	
A. Defend	
B. Attack	
C. Resign	
D. Surrender	
Besides lead, there are other heavy metals such as mercury ,which are found freque coal -fired power plants . How can this line to be worded differently?	ently in fish, that are spewed into the air from a
Beside lead, mercury is another heavy metal which is found frequently in discarded fish cooked in coal-fired power plants.	
Beside lead, Fish contain mercury which is heavy metal ejected in the air from power plant using coal	
Fish contains mercury which is released in the air as industrial waste and which is also a heavy metal like lead	
Mercury released in the air as industrial waste in another heavy metal like lead, found in fish	
Which of the two people mentioned in the passage suggest similar solution to the suggest similar solution to the suggest similar solution suggest similar solution to the suggest similar solution suggest similar solution suggest similar solution s	problem?
Dr. Agnihotri and Dr. George	
Dr. Bedi and Dr. Agnihotri	

Q6.

Q7.

Q8.

Q9.

Q10.	In the questions below, each passage consist of six sentences. The first and sixth s four sentences in each have been removed and jumbled up. These are labeled as P, four sentences. S1: I keep on flapping my big ears all day. P: They also fear that I w why I flap them so. R: I flap them so to make sure they are safely there on either sic S6: Am I not a smart, intelligent elephant? The Proper sequence should be:	Q, R and S. Find out the proper order for the ill flip them all away. Q : But children wonder
	A. SRQP	
	B. QPSR	
	C. QPRS	
	D. PSRQ	
Q11.	Find the correct alternative for the italicitized phrase. Its best to attribute his bad mo	ood on tiredness and just forget it.
	a) Attribute his bad mood to tiredness	
	b) Contribute his bad mood on tiredness	
	c) Attribute his bad mood with tiredness	
	d) No change	
Q12.	Read the passage and answer the questions given below Since the late 1970s where came into being, sex selective abortion has unleashed a saga of horror. Experts are trends indicate India is fast heading towards a million female foetuses aborted each sex selection is a criminal offence in India, the practice is rampant. Private clinics who business. Everywhere, people are paying to know the sex of an unborn child. And patechnology has even reached remote areas through mobile clinics. Dr. PuSneet Bed says these days he hardly sees a family with two daughters. People are getting sex says. If the 1991 Census showed that two districts had a child sex ratio (number of it was 51 districts. Child rights activist Dr. Sabu George says foeticide is the most eagirl is several times more likely to be eliminated before birth than die of various can womb to be a safe space. Today, doctors have made it the most unsafe space for the doctors must be held responsible? "They have aggressively promoted the misuse of the same treatment of t	calling it "sanitised barbarism". Demographic h year. Although foetal sex determination and with ultrasound machines are doing brisk aying more to abort the female child. The i, obstetrician and specialist in foetal medicine, determination done even for the first child, he girls per thousand boys) less than 850; by 2001 extreme form of violence against women. "Today huses in the first year. Nature intended the ne female child," he says. He believes that

Researchers and scholars use hard-hitting analogy to emphasise the extent of the problem. Dr. Satish Agnihotri, senior IAS officer and scholar who has done extensive research on the issue, calls the technology "a weapon of mass destruction". Dr. Bedi refers to it as genocide: "More than 6 million killed in 20 years. That's the number of Jews killed in the Holocaust." Akhila Sivadas, Centre for Advocacy and Research, Delhi, feels that the PCPNDT Act (Pre-Conception and Pre-Natal Diagnostic Techniques? Regulation and

implemented. ?The demand and supply debate has been going on for some time. Doctors say there is a social demand and they are fulfilling it. They argue that social attitudes must change. However, in this case supply fuels demand. Technology will have to be regulated. Technology in the hands of greedy, vested interests cannot be neutral. There is a law to prevent misuse and we must be able to use it,? she says. On the ?Demand? side, experts such as Dr. Agnihotri argue that women?s participation in workforce, having disposable incomes and making a contribution to the larger society will make a difference to how women are seen. Youth

Prevention of Misuse) is very well conceived and easy to use. The need of the hour is the legal literacy to ensure the law is

icons and role models such as Sania Mirza are making an impact, he says. Others feel there needs to be widespread visible

can say that female foeticide is not their problem.? Time we all did our bit to help save the girl child. Time?s running out.

contempt and anger in society against this ?Genocide?- ?the kind we saw against the Nithari killings,? says Dr Bedi. ?Today nobody

They think it is legitimate

What is the Doctors explanation for foeticide?

Dr. George and Dr. Bedi

Dr. George and Miss. Sivadas

They do it because people demand it			
	The technology is available and there is no harm using it		
	None of these		
Q13.	Select the word or phrase which best express the MEANING of the given word: OUTLIVE		
	SURVIVE		
	OUTSTAY		
	BANISH		
	OUTSPEND		
Q14.	Choose the word which best fits to highlighted word) : MUSTY		
	a) Stale		
	b) Necessary		
	c) Indifferent		
	d) Non ? chalant		
	e) Vivid		
Q15.	Select the opposie : ALTRUISM		
	CONSERVATIVE		
	REPUGNANT		
	COMBATIVENESS		
	SELFISHNESS		

Q16. Read the passage and answer the questions

Environmental toxins which can affect children are frighteningly commonplace. Besides lead, there are other heavy metals such as mercury, which is found frequently in fish, that are spewed into the air from coal-fired power plants, says Maureen Swanson, MPA, director of the Healthy Children Project at the Learning Disabilities Association of America. Mercury exposure can impair children?s memory, attention, and language abilities and interfere with fine motor and visual spatial skills. A recent study of school districts in Texas showed significantly higher levels of autism in areas with elevated levels of mercury in the environment. ?Researchers are finding harmful effects at lower and lower levels of exposure,? says Swanson. ?They?re now telling us that they don?t know if there?s a level of mercury that?s safe.? Unfortunately, some of these chemicals make good flame retardants and have been widely used in everything from upholstery to televisions to children?s clothing. Studies have found them in high levels in household dust as well as in breast milk. Two categories of these flame retardants have been banned in Europe and are starting to be banned different states in the United States. The number of toxins in our environment that can affect children may seem overwhelming times. On at least some fronts, however, there is progress in making the world a cleaner place for kids?and just possibly, reducing

the number of learning disabilities and neurological problems. With a number of efforts to clean up the environment stalled at the federal level, many state governments are starting to lead the way. And rather than tackle one chemical at a time, at least eight states are considering plans for comprehensive chemical reform bills, which would take toxic chemicals off the market. On at least some fronts, however, there is progress in making the world a cleaner place for kids and just possibly, reducing the number of learning disabilities and neurological problems. What ?front? is being referred to?

	Efforts of Healthy Children Project at the Learning Disabilities Association of America	
	B) Banning of flame retardants in Europe and various states of America	
	C) More and more states are joining the 2 states in Europe and various states in America that have already banned harmful chemicals	
	D) Proposed bill resulting in a blanket ban on all harmful chemicals	
Q17.	He worked really hard and thus to be promoted.	
	A. Warranted	
	B. Deserve	
	C. Deserves	
	D. Merit	
Q18.	Nothing convinced her to cancel her trip to goa.	
	WAS GOING TO	
	COULD HAVE	
	COULD	
	WILL HAVE	
Q19.	Today the inaugural day of the pub, the drinks were served free of cost.	
	Was	
	Been	
	Is	
	Being	

Rohit brushed quickly past an elderly woman waiting on the platform ahead of him to get onto the metro. He wanted to be suget a seat to read his Economic Times. As the train rolled out of the station, he lifted his head from the newspaper and stared as use

Q20.

man directly across from him. A tsunami - of antipathy me over him. Rohit knew this man, knew him all too well. Their eyes locked. As the train readied full speed, the ruckus of speeding wheels against the winding rails and a wildly gyrating subway car filled Rohit's ears. To this frenetic beat Rohit effortlessly listed in his head all the reasons this man, whose eyes he stared coldly into, was an anathema to him. He had climbed the upper echelons of his firm using an imperious manner with his subordinates, always making sure everyone knew he was the boss. Despite his impoverished upbringing, he had become ostentatious. Flush with cash from the lucrative deals he had made, he had purchased a yacht and a home in Mumbai. He used neither. But, oh, how he liked to say he had them. Meanwhile, Rohit knew, this man's parents were on the verge of being evicted from their run-down tenement apartment in Allahabad. What bothered Rohit most about this man was that he never even attempted to make amends for his evil ways. Could this man change? Rohit did not know. He could try though. The train screeched to Rohit?s stop. He gave the man one last hard look. ?See you around," he mumbled to himself. And he knew he would, because Rohit had been glaring at his own reflection in the glass in the metro. It would take years of hard work and therapy, but Rohit would one day notice this man again on the train and marvel at what a kinder person he had become. which statement makes most sense from what is said in the paragraph?

Rohit has few friends	
Rohit knows himself well	
Rohit has had a difficult life	
Rohit is incapable of change	
A)The teacher whom we met yesterday (B) is highly qualified and (C) with very g	ood rep

Q21. utation.

a) (A)
b) (B)
c) (C)
d) No error

Q22. Rohit brushed quickly past an elderly woman waiting on the platform ahead of him to get onto the metro. He wanted to be sure to get a seat to read his Economic Times. As the train rolled out of the station, he lifted his head from the newspaper and stared at the man directly across from him. A tsunami - of antipathy me over him. Rohit knew this man, knew him all too well. Their eyes locked. As the train readied full speed, the ruckus of speeding wheels against the winding rails and a wildly gyrating subway car filled Rohit's ears. To this frenetic beat Rohit effortlessly listed in his head all the reasons this man, whose eyes he stared coldly into, was an anathema to him. He had climbed the upper echelons of his firm using an imperious manner with his subordinates, always making sure everyone knew he was the boss. Despite his impoverished upbringing, he had become ostentatious. Flush with cash from the lucrative deals he had made, he had purchased a yacht and a home in Mumbai. He used neither. But, oh, how he liked to say he had them. Meanwhile, Rohit knew, this man's parents were on the verge of being evicted from their run-down tenement apartment in Allahabad. What bothered Rohit most about this man was that he never even attempted to make amends for his evil ways. Could this man change? Rohit did not know. He could try though. The train screeched to Rohit?s stop. He gave the man one last hard look. ?See you around," he mumbled to himself. And he knew he would, because Rohit had been glaring at his own reflection in the glass in the metro. It would take years of hard work and therapy, but Rohit would one day notice this man again on the train and marvel at what a kinder person he had become, what was the biggest reason (stated or implied) for Rohit disliking the man in the metro?

The man was known to be extremely rude and domineering especially with his subordinates

The man was remorseless and had not made any effort to reform himself for

The man rid not bother to take care of his parents who were on the verge of being evicted from their humble dwelling

The man rid not have respect for things or money and while people did not have a place to stay, he had bought a flat which he rid not even use

Q23. As soon as I turn the ignition key, the engine caught fire.

Q24.

Q25.

A. I turn an ignition key
B.I turned the ignition key
C.I was turning the ignition key
D. No change
Advent (opposite)
a) End
b) Dawn
c) Emergence
d) Flexible
e) Adamant

Indian government?s intention of introducing caste based quotas for the ?Other Backward Classes? in centrally funded institutions of higher learning and the prime minister?s suggestion to the private sector to ?voluntarily go in for reservation?, has once again sparked off a debate on the merits and demerits of caste-based reservations. Unfortunately, the predictable divide between the votaries of ?social justice? on one hand and those advocating ?merit? on the other seems to have once again camouflaged the real issues. It is necessary to take a holistic and non-partisan view of the issues involved. The hue and cry about ?sacrificing merit? is untenable simply because merit is after all a social construct and it cannot be determined objectively in a historically unjust and unequal context. The idea of competitive merit will be worthy of serious attention only in a broadly egalitarian context. But then, caste is not the only obstacle in the way of an egalitarian order. After all, economic conditions, educational opportunities and discrimination on the basis of gender also contribute to the denial of opportunity to express one?s true merit and worth. It is interesting to note that in the ongoing debate, one side refuses to see the socially constructed nature of the notion of merit, while the other side refuses to recognise the multiplicity of the mechanisms of exclusion with equal vehemence. The idea of caste-based reservations is justified by the logic of social justice. This implies the conscious attempt to restructure a given social order in such a way that individuals belonging to the traditionally and structurally marginalised social groups get adequate opportunities to actualise their potential and realise their due share in the resources available. In any society, particularly in one as diverse and complex as the Indian society, this is going to be a gigantic exercise and must not be reduced to just one aspect of state policy. Seen in this light, caste-based reservation has to work in tandem with other policies ensuring the elimination of the structures of social marginalisation and denial of access. It has to be seen as a means of achieving social justice and not an end in itself. By the same logic it must be assessed and audited from time to time like any other social policy and economic strategy. Hence, it is important, to discuss reservation in the holistic context of much required social restructuring and not to convert it into a fetish of? political correctness?. Admittedly, caste remains a social reality and a mechanism of oppression in Indian society. But can we say that caste is the only mechanism of oppression? Can we say with absolute certainty that poverty amongst the so-called upper castes has been eradicated? Can we say that the regions of Northeast, Jharkhand, Chhattisgarh are on par with the glittering metros of Delhi and Mumbai? Can we say that a pupil from a panchayat school in Bihar is equipped to compete with an alumnus of Doon School on an equal footing, even if both of them belong to the same caste group? One of my students once remarked that he was regularly compelled to swim across a rivulet in order to reach his school, and the rivulet in question did not distinguish between Brahmins and dalits. Incidentally, this young man happens to be a Brahmin by birth! Can we also say that gender plays no role in denial of social opportunities? After all, this society discriminates against girls even before they are born. What to talk of access or opportunities, they?re denied birth itself. Such discrimination exists across religious and caste lines. Moreover, the question is: do we want to eliminate caste as a factor of social relations and political processes or do we want to perpetuate it forever? Is it not true that by treating caste as the only medium of oppression and hence by focusing all remedial measures on caste alone, we have only added to the longevity of caste as the determining factor of social identity? Individuals have been virtually turned into the epitomes of the caste of their birth? denying the multiple identities that every individual perforce carries. This also helps the powerful amongst the generally disempowered sections to corner most of the benefits of caste-based reservation. Caste, which in reality is only one of the features of identity at the individual level and the manifestation of an abb social order at the social and structural level, has been turned into the essential identity of individual citizens. Such a situation helps only those politicians who are in search of shortcuts to power. It is harmful for the cause of a modern social democracy.

well as to the cause of individuals in need of social justice and related affirmative action. What is the author most likely to agree with?

Caste-based reservation is the answer to India?s problems.

Gender-based reservation is the answer to India?s problems.

There is no solution to bridge the gap between privileged and underprivileged.

None of these

Section 4 - Automata Fix

Section Summary

- No. of Questions: 7
- Duration: 30 min

Additional Instructions:

None

Q1. The method **countElement(int arr[],int n)** of class ElementCount is supposed to return the number of elements in the input array arr which are greater than twice the input number n . find the logical error in the function **countElement(int arr[], int n)** and fix it

```
#include<stdio.h>
int countElement(int arr[],int ele,int len)
{
int count=0;
  for(int i=0;i<len;i++)</pre>
    if(arr[i]>ele)
      count++;
  return count;
int main()
{
  int n;
  scanf("%d",&n);
  int arr[n];
  for(int i=0;i<n;i++)</pre>
    scanf("%d ",&arr[i]);
  int val;
  scanf("%d",&val);
  printf("%d",countElement(arr,val,n));
```

Sample Input

Sample Output

```
5
1 2 3 4 5
2
```

Time Limit: 2 ms Memory Limit: 256 kb Code Size: 256 kb

Q2. The function **printcolor(int num)** is supposed to point names of accordind to the given input number num
When the values of num equal 1,2,3,4 the function points "red","black","white","green" respectively.for any other values num it should print "No Color". Find the logical error in the function **printcolor(int num)** and fix it

```
#include<stdio.h>
void printcolor(int num)
```

```
{
switch(num)
{
case 1:
printf("Red");
case 2:
printf("Black");
case 3:
printf("White");
case 4:
printf("Green");
default:
printf("No color");
int main()
  int num;
  scanf("%d",&num);
  printcolor(num);
```

Sample Input

}

Sample Output

```
No color
```

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q3. The function maxReplace (int *arr,int len) is supposed to replace every element of the input array arr of length len,with the maximum element of arr. Complete the function maxReplace(int* arr,int len) to get the desired output

```
#include<stdio.h>
int* maxReplace(int *arr, int len)
// write code here
int main()
int size, ind;
scanf("%d",&size);
int arr[size];
for(int i=0;i<size;i++){</pre>
    scanf("%d",&arr[i]);
}
maxReplace(arr, size);
for(ind = 0; ind < size; ind++)</pre>
  printf("%d ", arr[ind]);
}
Test case 1:
Input:
[2,5,8,11,3],5
Expected return value:
```

[11,11,11,11,11]

Test case 2: Input:

[3,2,5,8,9,11,23,45,63],9

Expected return value:

[63,63,63,63,63,63,63,63]

Sample Input

Sample Output

5 1 4 5 3 2 5 5 5 5 5

Q4. Find the gcd of two numbers. The entire code is given below with logical errors. Correct it.

```
#include <stdio.h>
int gcd(int a, int b)
{
   if (b == 0)
   return a;
   return gcd(a % b,b%a);
}
int main()
{
    int a,b;
   scanf("%d %d",&a,&b);
    printf("GCD of %d and %d is %d ", a, b, gcd(a, b));
    return 0;
}
```

Sample Input

Sample Output

```
10 5 GCD of 10 and 5 is 5
```

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q5. Find the sum of first n natural numbers. Find the logical error in **findSum(int n)** and fix it

```
#include<stdio.h>
int findSum(int n)
{
  int sum = 0;
  for (int x=1; x<=n; x++)
  sum = sum + n;
  return sum;
}
  int main()
{
  int n;
  scanf("%d",&n);
  printf("%d",findSum(n));
  return 0;
}</pre>
```

Sample Input

Sample Output

5

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q6. This method **countOccurance** (**int arr[], int value**) of class occurrence is supposed to return the count of occurrences of a number value in the input array arr. The function compiles successfully but fails to return the desired result due to logical errors. Your task is to debug the program to pass all test cases.

```
#include<stdio.h>
int countOccurences(int arr[],int val,int n)
{
   int count=0;
   for(int i=0;i<n;i++)
   {
      if(arr[i]<val){
        count++;
      }
   }
   return count;
}
int main(){
   int n;
   scanf("%d",&n);
   int arr[n];
   for(int i=0;i<n;i++)</pre>
```

```
{
    scanf("%d ",&arr[i]);
}
int val;
scanf("%d",&val);
printf("%d",countOccurences(arr,val,n));
}
```

Sample Input

Sample Output

```
    5

    1 2 2 2 3

    2
```

Time Limit: 2 ms Memory Limit: 256 kb Code Size: 256 kb

Q7. calculate the nth amstrong number.

Fill the logic in the provided function isAmstrong(int x) with the help of power(int x,unsigned int y) and power(int x,unsigned int y)

```
#include <stdio.h>
int power(int x, unsigned int y)
{
if (y == 0)
return 1;
if (y \% 2 == 0)
return power(x, y / 2) * power(x, y / 2);
return x * power(x, y / 2) * power(x, y / 2);
}
int order(int x)
int n = 0;
while (x) {
n++;
x = x / 10;
}
return n;
int isArmstrong(int x)
// write code here
}
int main()
{
int x;
scanf("%d",&x);
if (isArmstrong(x) == 1)
printf("True\n");
else
printf("False\n");
return 0;
}
```

Sample Input

Sample Output

153	True

Time Limit: 2 ms Memory Limit: 256 kb Code Size: 256 kb

Answer Key & Solution

	Section 1 - Quantitative Aptitude	Answer key & Solution	
Q1	1.9		
	Solution		
Q2			
Q2	50		
	Solution		
Q3	None of these		
	Solution		
Q4	0 (17)		
	2 log5 (17)		
	Solution		
Q5	В		
	Solution		
Q6	1		
	Solution		
07			
Q7	-2		
	Solution		

Q8

Solution

log 5

Q9 x=-27 and 3

Solution

Q10

Solution

2

Q11 $\log(a) / \log(b) = y/x$

Solution

Q12 1000

Solution

Q13 12

Solution

Q14

y = x/(x-1)

Solution

Q15
-(1 + a)

Solution

Q16 a^2+b^2 = 7ab

Solution

Q17 1 + loga (b)

Solution

Q18 1/3 Solution

Q19 a/b Solution

Q20 HP Solution

Q21	Both will	grow linearly with different slopes	
	Solution		
Q22	Lincoulu		
	Linearly		
	Solution		
Q23	1/3		
	Solution		
Q24	192		
	Solution		
Q25	20		
	Solution		
	Section 2 -	- Reasoning Ability	
Q1	RXS		
	Solution		
	_		
Q2			
¬-	PRV		
	Solution		

Q3	residents welfare associations exert a lot of influence over the voting population residing in the city
	Solution
	-
Q4	employee should be given 10%bonus
	Solution
	NIL
Q5	42km north east
	Solution
	-
Q6	None of these
	Solution
	-
Q7	Beautician
	Solution
	-
Q8	Only conclusion I is true
	Solution

Q9 edit : manuscript

	Solution
	-
Q10	daisy
	Solution
	-
0.1.1	
Q11	teacher
	Solution
	-
Q12	Resident?s welfare associations exert a lot of influence over the voting population residing in the city.
	Solution
Q13	The environment created by the activist disunity and local indifference is the reason for antique dealers to strive in india.
	Solution
Q14	
	Only II is true
	Solution
Q15	statement II alone is sufficient to answering the problem question.
	Solution
	-

Q21 South-West

Solution

Q23	CGP Solution		
Q24	Wife Solution		
Q25	Wife Solution		
Q1	Section 3 - Verbal Ability both options A and B Solution		
Q2	E.Sedate Solution NIL		
Q3	(d)All of the above Solution		

Solution

Q4	Legitimate
	Solution
	no
Q5	RQSP
	Solution
Q6	В
	Solution
	NIL
Q7	A. Defend
	Solution
	-
Q8	Beside lead, Fish contain mercury which is heavy metal ejected in the air from power plant using coal
	Solution
Q9	Dr. George and Miss. Sivadas
	Solution
	no
Q10	B. QPSR
	Solution

Q11	a) Attribute his had maded to time doos
	a) Attribute his bad mood to tiredness
	Solution
	NIL
Q12	They do it because people demand it
	Solution
	no
Q13	SURVIVE
	Solution
	NIL
Q14	
417	a) Stale
	Solution
	NIL
Q15	SELFISHNESS
	Solution
	NIL
Q16	B) Banning of flame retardants in Europe and various states of America
	Solution

Q17

C. Deserves

	Solution	
Q18	COULD HAVE	
	Solution	
	NIL	
Q19	Was	
	Solution	
	no	
Q20	Rohit knows himself well	
	Solution	
001		
Q21	c) (C)	
	Solution	
	NIL	
Q22		
	The man was remorseless and had not made any effort to reform himself for the better Solution	
Q23	B.I turned the ignition key	
	Solution	
	-	

```
Q24
        a) End
        Solution
         NIL
Q25
        None of these
        Solution
         no
      Section 4 - Automata Fix
Q1
        Test Case
        Input
                                                                 Output
          10
                                                                     4
          11 12 13 14 15 16 17 18 19 20
        Weightage - 50
                                                                 Output
        Input
          6
                                                                     6
          12 12 13 14 23
          6
        Weightage - 50
        Sample Input
                                                                 Sample Output
                                                                     1
          1 2 3 4 5
          2
        Solution
         Header
           #include<stdio.h>
           int countElement(int arr[],int ele,int len)
           {
               int count=0;
               for(int i=0;i<len;i++)</pre>
                   if(arr[i]>2*ele)
                       count++;
```

```
Footer
   }
   int main()
       int n;
       scanf("%d",&n);
       int arr[n];
       for(int i=0;i<n;i++)</pre>
           scanf("%d ",&arr[i]);
       int val;
       scanf("%d",&val);
       printf("%d",countElement(arr,val,n));
   }
Test Case
Input
                                                          Output
  1
                                                             Red
Weightage - 25
Input
                                                          Output
  2
                                                             Black
Weightage - 25
Input
                                                          Output
  3
                                                             White
Weightage - 25
Input
                                                          Output
  4
                                                             Green
Weightage - 25
Sample Input
                                                          Sample Output
```

No color

return count;

Q2

5

Solution

Header

```
#include<stdio.h>
void printcolor(int num)
{
switch(num)
{
case 1:
printf("Red");
break;
case 2:
printf("Black");
break;
case 3:
printf("White");
break;
case 4:
printf("Green");
break;
default:
printf("No color");
break;
}
```

Footer

```
}
int main()
{
    int num;
    scanf("%d",&num);
    printcolor(num);
}
```

Q3 Test Case

Input Output

```
5
1 8 4 6 9
```

9 9 9 9 9

Weightage - 50

Input Output

```
7
34 5 6 3 2 7 9
```

34 34 34 34 34 34

Weightage - 50

```
5 1 4 5 3 2
```

5 5 5 5 5

Solution

Header

```
#include<stdio.h>
int* maxReplace(int *arr, int len)
{
        int i, max;
        if(len>0)
        {
            //
          max=arr[0];
            for(i=0;i<len;i++)</pre>
            {
             // int dummy;
                     if(max<arr[i])</pre>
                             max=arr[i];
        //
            dummy = 100;
        for(i=0;i<len;i++)</pre>
        arr[i]=max;
        return arr;
```

Footer

Q4 Test Case

Input Output

20 4 GCD of 20 and 4 is 4

Input Output

```
45 9 GCD of 45 and 9 is 9
```

Weightage - 50

Sample Input

Sample Output

```
10 5 GCD of 10 and 5 is 5
```

Solution

Header

```
#include <stdio.h>
// Recursive function to return gcd of a and b
int gcd(int a, int b)
{
#include <stdio.h>
// Recursive function to return gcd of a and b
int gcd(int a, int b)
{
    if (b == 0)
        return a;
    return gcd(b, a % b);
// Driver program to test above function
int main()
{
    int a,b;
    scanf("%d %d",&a,&b);
   printf("GCD of %d and %d is %d ", a, b, gcd(a, b));
    return 0;
}
```

Footer

```
}
int main()
{
    int a,b;
    scanf("%d %d",&a,&b);
    printf("GCD of %d and %d is %d ", a, b, gcd(a, b));
    return 0;
}
```

Input Output

```
20 210
```

Weightage - 50

Input Output

```
14
```

Weightage - 50

Sample Input Sample Output

```
5
```

Solution

Header

```
#include<stdio.h>
int findSum(int n)
{

#include<stdio.h>
int findSum(int n)
{
  int sum = 0;
  for (int x=1; x<=n; x++)
      sum = sum + x;
  return sum;
}
  int main()
{
  int n;
  scanf("%d",&n);
  printf("%d",findSum(n));
  return 0;
}</pre>
```

Footer

```
}
int main()
{
int n;
scanf("%d",&n);
printf("%d",findSum(n));
return 0;
}
```

Q6

Test Case

Input Output

```
10
1 2 9 0 87 87 56 5 78 23
87
```

Weightage - 25

Input Output

```
5
1 1 1 1 1
9
```

Weightage - 50

Input Output

```
1
1
1
```

Weightage - 25

Sample Input Sample Output

```
5
1 2 2 2 3
2
```

Solution

Header

```
#include<stdio.h>
int countOccurences(int arr[],int val,int n)
#include<stdio.h>
int countOccurences(int arr[],int val,int n)
    int count=0;
    for(int i=0;i<n;i++)</pre>
        if(arr[i]==val){
            count++;
        }
    return count;
}
int main(){
    int n;
    scanf("%d",&n);
    int arr[n];
    for(int i=0;i<n;i++)</pre>
```

```
int val;
       scanf("%d",&val);
       printf("%d",countOccurences(arr,val,n));
   }
Footer
   }
   int main(){
       int n;
       scanf("%d",&n);
       int arr[n];
       for(int i=0;i<n;i++)</pre>
           scanf("%d ",&arr[i]);
       int val;
       scanf("%d",&val);
       printf("%d",countOccurences(arr,val,n));
   }
Test Case
                                                          Output
Input
  156
                                                             False
Weightage - 50
                                                          Output
Input
  121
                                                             False
Weightage - 25
Input
                                                          Output
  153
                                                             True
Weightage - 25
Sample Input
                                                          Sample Output
  153
                                                             True
Solution
```

scanf("%d ",&arr[i]);

}

Q7

```
#include <stdio.h>
int power(int x, unsigned int y)
{
    if (y == 0)
       return 1;
   if (y % 2 == 0)
       return power(x, y / 2) * power(x, y / 2);
   return x * power(x, y / 2) * power(x, y / 2);
}
int order(int x)
{
    int n = 0;
   while (x) {
       n++;
       x = x / 10;
    return n;
}
int isArmstrong(int x)
{
    int n = order(x);
    int temp = x, sum = 0;
    while (temp) {
       int r = temp % 10;
        sum += power(r, n);
        temp = temp / 10;
    }
    if (sum == x)
        return 1;
    else
        return 0;
```

Footer

```
int main()
{
    int x;
    scanf("%d",&x);
    if (isArmstrong(x) == 1)
        printf("True\n");
    else
        printf("False\n");
    return 0;
}
```

