

WRITTEN TEST :

Total 90 questions & 90 minutes —SECTIONAL CUTOFF IS THERE

- 1. Aptitude (30 quest)**
- 2. Reasoning (30 quest)**
- 3. English (30 quest)**

1. APTITUDE (30 quest)

1. The average salary of 3 workers is 95 Rs. per week. If one earns Rs.115 and second earns Rs.65 how much is the salary of the 3rd worker.

Ans : 105

2. A 16 stored building has 12000 sq.feet on each floor. Company A rents 7 floors and company B rents 4 floors.

What is the number of sq.feet of unrented floor space.

Ans : 60000

3. During a given week A programmer spends $\frac{1}{4}$ of his time preparing flow chart, $\frac{3}{8}$ of his time coding and the rest of the time in debugging the programs. If he works 48 hours during the week , how many hours did he spend debugging the program.

Ans : 18.

4. A company installed 36 machines at the beginning of the year. In March they installed 9 additional machines and then disconnected 18 in August. How many were still installed at the end of the year.

Ans : 27

5. A man owns $\frac{2}{3}$ of the market research beauro business and sells $\frac{3}{4}$ of his shares for Rs. 75000. What is the value of Business ?

Ans : 150000

6. If 12 file cabinets require 18 feet of wall space, how many feet of wall space will 30 cabinets require?

Ans : 45

7. A computer printer produced 176,400 lines in a given day. If the printer was in operation for seven hours during the day, how many lines did it print per minute?

Ans : 420

8. From its total income, A sales company spent Rs.20,000 for advertising, half of the remainder on commissions and had Rs.6000 left. What was its total income?

Ans : 32000

9. On Monday a banker processed a batch of cheques, on Tuesday she processed three times as many, and on

Wednesday she processed 4000 cheques. In the three days, she processed 16000 cheques. How many did she process on Tuesday?

Ans : 9000

10. The cost of four dozen proof machine ribbons and five dozen accounting machine ribbons was Rs.160/-. If one dozen accounting machine ribbons cost Rs.20/-, what is the cost of a dozen proof machine ribbons?

Ans : Rs.15

11. If a clerk can process 80 cheques in half an hour, how many cheques can she process in a seven and one half hour day?

Ans : 1200

12. In a library, there are two racks with 40 books per rack. On a given day, 30 books were issued. What fraction remained in the racks?

Ans : 5/8

13. The average length of three tapes is 6800 feet. None of the tapes is less than 6400 feet. What is the greatest possible length of one of the other tapes?

Ans : 7600

14. A company rented a machine for Rs.700/- a month. Five years later the treasurer calculated that if the company had purchased the machine and paid Rs.100/- monthly maintenance charge, the company would have saved

Rs.2000/-. What was the purchase price of the machine?

Ans : Rs.34000

15. Two computers each produced 48000 public utility bills in a day. One computer printed bills at the rate of 9600 an hour and the other at the rate of 7800 an hour. When the first computer finished its run, how many bills did the other computer still have to print?

Ans : 9000

16. If a salesman's average is a new order every other week, he will break the office record of the year. However, after 28 weeks, he is six orders behind schedule. In what proportion of the remaining weeks does he have to

obtain a new order to break the record?

Ans : 3/4

17. On a given day, a bank had 16000 cheques returned by customers. Inspection of the first 800 cheques indicated that 100 of those 800 had errors and were therefore the available immediately for data processing. On this basis, how many cheques would be available immediately for data processing on that day?

Ans : 14000

18. A tape manufacturer reduces the price of his heavy duty tape from Rs.30/- to Rs.28/- a reel and the price of a regular tape from Rs.24/- to Rs.23/- a reel. A computing centre normally spends Rs.1440/- a month for tapes

and 3/4 of this is for heavy duty tapes. How much will they save a month under the new prices?

Ans : Rs.87

19. The dimensions of a certain machine are 48" X 30" X 52". If the size of the machine is increased proportionately

until the sum of its dimensions equals 156", what will be the increase in the shortest side?

Ans : 6"

20. In a certain company, 20% of the men and 40% of the women attended the annual company picnic. If 35% of all

the employees are man, what percent of all the employees went to the picnic?

Ans : 33%

21. It cost a college Rs.0.70 a copy to produce a Programme for the homecoming football game. If Rs.15,000/- was

received for advertisements in the programme, how many copies at Rs.0.50 a copy must be sold to make a profit

of Rs.8000/- ?

Ans : 35000

22. If the digits of my present age are reversed then i get the age of my son. If 1 year ago my age was twice as that of my son. Find my present age.

Ans : father-73, son-37

23. There are 6561 balls out of them 1 is heavy. Find the min. no. of times the balls have to be weighed for finding out

the heavy ball.

Ans : 8

24. If I walk with 30 miles/hr i reach 1 hour before and if i walk with 20 miles/hr i reach 1 hour late. Find the distance

between 2 points and the exact time of reaching destination is 11 am then find the speed with which it walks.

Ans. 120miles and 24 miles/hr

25. A thief steals half the total no of loaves of bread plus 1/2 loaf from a bakery. A second thief steals half the

remaining no of loaves plus 1/2 loaf and so on. After the 5th thief has stolen there are no more loaves left in the

bakery. What was the total no of loaves did the bakery have at the beginning.

Ans : 31.

26. A person needs 6 steps to cover a distance of one slab. If he increases his foot length (step length) by 3 inches he needs only 5 steps to cover the slabs length. What is the length of the each slab.

Ans : 31 inches.

27. There are 19 red balls and one black ball. Ten balls are put in one jar and the remaining 10 are put in another jar. What is the possibility that the black is in the right jar.

Ans : 1/2.

28. There is one lily in the pond on 1st june . There are two in the pond on 2nd june . There are four on 3rd june and so on. The pond is full with lilies by the end of the june .

(i) On which date the pond is half full?

Ans : 29th.

29. A lorry starts from Banglore to Mysore at 6.00 A.M, 7.00 A.M, 8.00 am.....10 pm. Similarly one another starts

from Mysore to Banglore at 6.00 am,7.00 am, 8.00 am.....10.00pm. A lorry takes 9 hours to travel from Banglore to Mysore and vice versa.

(i) A lorry which has started at 6.00 am will cross how many lorries.

Ans : 10.

30. A person meets a train at a railway station coming daily at a particular time . One day he is late by 25 minutes, and

he meets the train 5 k.m. before the station. If his speed is 12 kmph, what is the speed of the train ?

Ans : : 60 kmph

2. REASONING

Answer Questions 1 to 5 on the basis of the information given below:

The only people to attend a conference were four ship captains and the first mates of three of those captains. The captains were L, M, N and O; the first mates were A, D and G Each person in turn delivered a report to the assembly as follows:

Each of the first mates delivered their report exactly after his or her captain. The first captain to speak was M, and captain N spoke after him.

1. Among the following which is not an appropriate order of delivered reports?

1. M, A, N, G, O, L, D
2. M, D, N, G, L, O, A
3. M, N, A, L, D, O, G
4. M, N, A, O, D, L, G
5. M, N, G, D, O, L, A

Ans : E

2. In case L speaks after A, and A is the third of the first mates to speak, then among the following statements which would be untrue?

1. O spoke immediately after G.
2. The order of the first four speakers was M, G, N, D.
3. O's first mate was present.
4. A was the fourth speaker after M.
5. The captains spoke in the order M, N, O, L.

Ans : D

3. Among the following statements which statement must be true?

1. In case the second speaker was a captain, the seventh speaker was a first mate.
2. In case the second speaker was a first mate, the seventh speaker was a captain.
3. In case the third speaker was a first mate, the seventh speaker was a captain.
4. In case the third speaker was a captain, the seventh speaker was a first mate.
5. In case the seventh speaker was a first mate, the first and third speakers were captains.

Ans : A

4. In case A spoke immediately after L and immediately before O, and O was not the last speaker, L spoke

1. second
2. third
3. fourth

4. fifth
5. sixth

Ans : C

5. In case G is M's first mate, D could be the person who spoke immediately

1. prior to T
2. prior to L
3. prior to V
4. after T
5. after V

Ans : D

6. At the college entrance exam, a candidate is admitted according to whether he has passed or failed the test. Of the candidates who are really capable, 80 % pass the test and of the incapable, 25 % pass the test. Given that 40 % of the candidates are really capable, then the proportion of the really capable students who can pass the test to the total students who can pass is about:

- A. 68% B. 70% C. 75% D. 73%

Ans : B

7. Excluding stoppages, the speed of a bus is 54 km/hr and including stoppages, it is 45 km/hr. For how many minutes does the bus stop per hour ?

- A. 12 B. 10 C. 9 D. 15

Ans : B

8. A boy goes to see a film and finds a man who is his relative. The man is the husband of the sister of his mother. How is the man related to the boy?

- A. Uncle B. Brother C. Nephew D. None of the above

Ans : A

9. The ratio between the number of passengers travelling by I & II Class between two railway stations is 1 : 50, whereas the ratio of the I & II Class fares between the same stations is 3 : 1. If on a particular day, Rs. 1325 were collected from the passengers travelling between these stations, what was the amount collected from the II Class passengers ?

- A. Rs.1250 B. Rs. 1100 C. Rs. 1000 D. Rs.1150

Ans : A

10. When Rajeev was born, his father was 32 years older than his brother and his mother was 25 years older than his sister. If Rajeev's brother is 6 years older than Rajeev and his mother is 3 years younger

than his father, how old was Rajeev's sister when Rajeev was born?

A. 15 Years B. 7 Years C. 17 Years D. 10 Years

Ans : D

11. If STRAY is coded as TUSBZ then how will MOURN be coded?

- (A) LPVSO
- (B) NPVSO
- (C) NVPSO
- (D) NPSVO
- (E) None of these

Ans : B

12. If MAGIC is coded as PXJFF then how will LEASH be coded?

- (A) PBDVD
- (B) OBDVL
- (C) OHEOK
- (D) OBDPK
- (E) None of these

Ans : D

13. If DOWN is coded as FQYP then how will WITH be coded?

- (A) KYN
- (B) JYK
- (C) YKVJ
- (D) JKVY
- (E) None of these

Ans : C

14. If BINARY is coded as DHPZTK then how will KIDNAP be coded?

- (A) MKFPCQ
- (B) MHFPZQ
- (C) IKFMYO
- (D) MHFMCO
- (E) None of these

Ans : D

15. If RASCAL is coded as QZRBZK then how will SOLDER be coded?

- (A) RNMEDQ
- (B) RPKEDS
- (C) TPMEFS
- (D) RNKCDQ
- (E) None of these

Ans : D

Directions 16:20 : In each question below are given two statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known

facts.

Give answer (A) if only conclusion I follows; (B) if only conclusion II follows; (C) if either I or II follows (D) if neither I or II follows and (E) if both I and II.

16. Statements : All puppets are dolls

All dolls are toys

Conclusions : I. Some toys are puppets

II. All toys are puppets

Ans : A

17. Statements : All apples are oranges

Some oranges are papayas

Conclusions : I. Some apples are papayas

II. Some papayas are apples

Ans : D

18. Statements :Some players are singers

All singers are tall

Conclusions : I. Some players are tall

II. All players are tall

Ans : A

19. Statements : All coins are crows

Some crows are pens

Conclusions : I. No pen is coin

II. Some coins are pens

Ans : D

20. Statements : All men are married

Some men are educated

Conclusions : I. Some married are educated

II. Some educated are married

Ans : E

21. Pointing to a man Snehlata says, “He is the only son of my father’s father.” How is Snehlata related to the man ?

(A) Mother

(B) Grand daughter

- (C) Niece
- (D) Sister
- (E) None of these

Ans : E

22. Pointing to a lady in photograph, Madhurendra said, “Her mother is the only daughter of my mother’s mother.”

How is Madhurendra related to the lady?

- (A) Nephew
- (B) Uncle
- (C) Maternal uncle
- (D) Brother
- (E) None of these

Ans : D

23. If $P \times Q$ means— ‘P is the brother of Q’, $P \div Q$ means ‘P is the son of Q’ and ‘ $P - Q$ ’ means ‘P is the sister of Q’ ,

then which of the following relations will show that Q is the maternal uncle of P ?

- (A) $Q \times R \div P$
- (B) $Q \div R - P$
- (C) $P \times R - Q$
- (D) $P \div R - Q$
- (E) None of these

Ans : D

24. In the class of 40 students, if Sanju is at 30th place from one end, what is his position from the other end?

- (A) 9th
- (B) 12th
- (C) 10th
- (D) 11th
- (E) None of these

Ans : D

25. In a row of girls, Nivedita is 15th from the left and Vimla is 23rd from the right. If they interchange their positions,

then Nivedita becomes 18 th from the left. Then at what position will Vimla be from the right?

- (A) 25th
- (B) 24th
- (C) 26th
- (D) 20th
- (E) None of these

Ans : C

26. As ‘Hindu worshiper’ is related to ‘Temple’ in the same way ‘Maulvi’ is related to what?

- (A) Monastery
- (B) Church
- (C) Mosque
- (D) Sikh temple
- (E) None of these

Ans : C

27. As 'Hungry' is related to 'Food' in the same way 'Thirsty' is related to what?

- (A) Drink
- (B) Tea
- (C) Coffee
- (D) Juice
- (E) Water

Ans : E

28. As 'Fly' is related to 'Parrot' in the same way 'Creep' is related to what?

- (A) Snake
- (B) Rabbit
- (C) Fish
- (D) Crocodile
- (E) Sparrow

Ans : A

29. If 'M' denotes ' \div ', 'K' denotes '-', 'T' denotes ' \times ' and 'R' denotes '+', then; $20 K 16 T 8 M 4 R 6 = ?$

- (A) 18
- (B) - 6
- (C) - 12
- (D) - 18
- (E) None of these

Ans : B

30. How many such pairs of letters are there in the word TERMINATE each of which has as many letters between them in the word as in the English alphabet ?

- (A) None
- (B) One
- (C) Two
- (D) Three
- (E) More than three

Ans : B

3. ENGLISH

Directions 1-5: In each of the following questions, there is a certain relationship between two given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same relation with this word as the words of the given pair bear. Choose the correct alternative.

1. Oxygen : Burn :: Carbon dioxide : ?

- (A) Isolate
- (B) Foam
- (C) Extinguish
- (D) Explode

Ans : C

2. Grain : Stock :: Stick : ?

- (A) Heap
- (B) Bundle
- (C) Collection
- (D) String

Ans : (B)

3. Planet : Orbit :: Projectile : ?

(A) Trajectory (B) Track (C) Milky way (D) Path

Ans : (A)

4. Genuine : Authentic :: Mirage : ?

(A) Image (B) Transpiration (C) Reflection (D) Illusion

Ans : (D)

5. Illiteracy : Education :: Flood : ?

(A) Rain (B) Bridge (C) Dam (D) River

Ans : (C)

Directions for Questions 6 to 10 : Each of the following sentences has been divided into four parts. There is an error in one of the parts. Point out the part which has an error .

6. A) I was astonished by the highly exciting tricks /

B) the acrobat displayed on the rope /

C) at great risk of like

D) at such an advanced age.

Ans : A

7. A) We, who are fortunate enough /

B) to have lived in the present century, /

C) hardly realize how our ancestors suffered /

D) from the belief in the existence of evil spirits.

Ans : B

8. A) We were expecting at least twenty delegates /

B) to participate in the seminar, /

C) but when I reached the hall,

D) I found no any delegate present there.

Ans : D

9. A) We bought five dozens pencils from a shop, /

B) but on opening in the packet at home /

C) we found five pencils short, /

D) but the shopkeeper did not accept the responsibility of the shortage.

Ans : A

10. A) I wanted to book a parcel weighting twenty and a half kilos /
 B) but the booking -clerk refused to book it /
 C) on the ground
 D) that it was not properly sealed.

Ans : A

Directions for Questions 11-15: In each of the following questions, a paragraph or a sentence has been broken up into different parts. The parts have been scrambled and numbered as given below. Choose the correct order of these parts from the given alternatives

11. A. The potential exchanges between the officials of IBBF and the Maharashtra Body-Building Association has all the trappings of a drama we are accustomed to.
 B. In the case of sportspersons, there is room for some sympathy, but the apathy of the administrators, which has even led to sanctions from international bodies, is unpardonable.
 C. A case in the point is the hefty penalty of US \$10,000 slapped on the Indian Body-Building Federation for not fulfilling its commitment for holding the Asian Championships in Mumbai in October.
 D. It is a matter of deep regret and concern that the sports administrators often cause more harm to the image of the country than sportsmen and sportswomen do through their dismal performances.

1] CABD 2] DBCA 3] DABC 4] CDBA

Ans : 2

12. A. Its cargo consisted of 38 sacks of spices and Magellan himself had been hacked to pieces on the beach of Mactan in the Phillipines
 B. So contrary to popular believe it was the crew of the Victoria who were the first men to have sailed around the globe
 C. In spetembre 1522 Victoria , the sole survivor of the Armada, limped into the spanish port San Lucar , manned by a skeleton crew of 15, so weak they could not talk
 D. In septembre 1519 the Armada de Molucca of five ships and 250 sailors has set out from San lucar de Barrameda under the command of Fernando de Magellan
 E. It was to sail to the spice islands of the Malayan Archipelago where they were to excahnge an assortemnt of bells , mirrors , and scissors for cinnamon and cloves.

1] DECAB 2] AEDCB 3] CDEAB 4] DEABC

Ans : 1

13. A. What came out was very large garland made out of currency notes.
 B. The unsuspecting governor opened the box in full view of the gathering
 C. When the RBI governor came to inaugrate the new printing press , the local unit of the BJP handed him a gift wrapped box
 D. There was a twist – the notes were all as tattered as notes could get

1] DACB 2] CABD 3] CBAD 4] DCAB

Ans : 3

14. A. But in the industrial era destroying the enemy's productive capacity means bombing the factories which are located in the cities.
 B. So in the agrarian era, if you need to destroy the enemy's productive capacity, what you want to do is bum his fields, or if you're really vicious, salt them.

C. Now in the information era, destroying the enemy's productive capacity means destroying the information infrastructure.

D. How do you do battle with your enemy?

E. The idea is to destroy the enemy's productive capacity, and depending upon the economic foundation, that productive capacity is different in each case.

F. With regard to defence, the purpose of the military is to defend the nation and be prepared to do battle with its enemy.

1] FDEBAC 2] FCABED 3] DEBACF 4] DFEBAC

Ans : 1

15. A. The situations in which violence occurs and the nature of that violence tends to be clearly defined at least in theory, as in the proverbial Irishman's question: 'Is this a private fight or can anyone join in?'

B. So the actual risk to outsiders, though no doubt higher than our societies, is calculable.

C. Probably the only uncontrolled applications of force are those of social superiors to social inferiors and even here there are probably some rules.

D. However binding the obligation to kill, members of feuding families engaged in mutual massacre will be genuinely appalled if by some mischance a bystander or outsider is killed.

1] DABC 2] ACDB 3] CBAD 4] DBAC

Ans : 1

Directions for Questions 16 to 20: The passage given below is followed by a set of five questions. Choose the most appropriate answer to each question.

To summarize the Classic Maya collapse, we can tentatively identify five strands. I acknowledge, however, that Maya archaeologists still disagree vigorously among themselves—in part, because the different strands evidently varied in importance among different parts of the Maya realm; because detailed archaeological studies are available for only some Maya sites; and because it remains puzzling why most of the Maya heartland remained nearly empty of population and failed to recover after the collapse and after re-growth of forests.

With those caveats, it appears to me that one strand consisted of population growth outstripping available resources: a dilemma similar to the one foreseen by Thomas Malthus in 1798 and being played out today in Rwanda (Chapter 10), Haiti (Chapter 11), and elsewhere. As the archaeologist David Webster succinctly puts it, "Too many farmers grew too many crops on too much of the landscape." Compounding that mismatch between population and resources was the second strand: the effects of deforestation and hillside erosion, which caused a decrease in the amount of useable farmland at a time when more rather than less farmland was needed, and possibly exacerbated by an anthropogenic drought resulting from deforestation, by soil nutrient depletion and other soil problems, and by the struggle to prevent bracken ferns from overrunning the fields.

The third strand consisted of increased fighting, as more and more people fought over fewer resources. Maya warfare, already endemic, peaked just before the collapse. That is not surprising when one reflects that at least 5,000,000 people, perhaps many more, were crammed into an area smaller than the state of Colorado (104,000 square miles). That warfare would have decreased further the amount of land available for agriculture, by creating no-man's lands between principalities where it was now unsafe to farm. Bringing matters to a head was the strand of climate change. The drought at the time of the Classic collapse was not the first drought that the Maya had lived through, but it was the most severe. At the time of previous droughts, there were still uninhabited parts of the Maya landscape, and people at a site affected by drought could save themselves by moving to another site. However, by the time of the Classic collapse the landscape was now full, there was no useful unoccupied land in the

vicinity on which to begin anew, and the whole population could not be accommodated in the few areas that continued to have reliable water supplies.

As our fifth strand, we have to wonder why the kings and nobles failed to recognize and solve these seemingly obvious problems undermining their society. Their attention was evidently focused on their short-term concerns of enriching themselves, waging wars, erecting monuments, competing with each other, and extracting enough food from the peasants to support all those activities. Like most leaders throughout human history, the Maya kings and nobles did not heed long-term problems, insofar as they perceived them. We shall return to this theme in Chapter 14.

Finally, while we still have some other past societies to consider in this book before we switch our attention to the modern world, we must already be struck by some parallels between the Maya and the past societies discussed in Chapters 2-4. As on Easter Island, Mangareva, and among the Anasazi, Maya environmental and population problems led to increasing warfare and civil strife. As on Easter Island and at Chaco Canyon, Maya peak population numbers were followed swiftly by political and social collapse. Paralleling the eventual extension of agriculture from Easter Island's coastal lowlands to its uplands, and from the Mimbres floodplain to the hills, Copan's inhabitants also expanded from the floodplain to the more fragile hill slopes, leaving them with a larger population to feed when the agricultural boom in the hills went bust. Like Easter Island chiefs erecting ever larger statues, eventually crowned by pukao, and like Anasazi elite treating themselves to necklaces of 2,000 turquoise beads, Maya kings sought to outdo each other with more and more impressive temples, covered with thicker and thicker plaster—reminiscent in turn of the extravagant conspicuous consumption by modern American CEOs. The passivity of Easter chiefs and Maya kings in the face of the real big threats to their societies completes our list of disquieting parallels.

Ans : According to the passage, which of the following best represents the factor that has been cited by the author in the context of Rwanda and Haiti?

- (1) Various ethnic groups competing for land and other resources.
- (2) Various ethnic groups competing for limited land resources.
- (3) Various ethnic groups fighting with each other.
- (4) Various ethnic groups competing for political power.
- (5) Various ethnic groups fighting for their identity.

Ans : 2

17. By an anthropogenic drought, the author means

- (1) A drought caused by lack of rains.
- (2) A drought caused due to deforestation.
- (3) A drought caused by failure to prevent bracken ferns from overrunning the fields.
- (4) A drought caused by actions of human beings.
- (5) A drought caused by climate changes.

Ans : 4

18. According to the passage, the drought at the time of Maya collapse had a different impact compared to the droughts earlier because

- (1) The Maya kings continue to be extravagant when common people were suffering.
- (2) It happened at the time of collapse of leadership among Mayas.
- (3) It happened when the Maya population had occupied all available land suited for agriculture.
- (4) It was followed by internecine warfare among Mayans.
- (5) Irreversible environmental degradation led to this drought.

Ans : 3

19. According to the author, why is it difficult to explain the reasons for Maya collapse?

- (1) Copan inhabitants destroyed all records of that period.
- (2) The constant deforestation and hillside erosion have wiped out all traces of the Maya kingdom.
- (3) Archaeological sites of Mayas do not provide any consistent evidence.
- (4) It has not been possible to ascertain which of the factors best explains as to why the Maya civilization collapsed.
- (5) At least five million people were crammed into a small area.

Ans : 4

20. Which factor has not been cited as one of the factors causing the collapse of Maya society?

- (1) Environmental degradation due to excess population.
- (2) Social collapse due to excess population.
- (3) Increased warfare among Maya people.
- (4) Climate change.
- (5) Obsession of Maya population with their own short-term concerns.

Ans : 3

Directions 21-25: Pick out from the words, given below each sentence, the word which would complete the sentence correctly and meaningfully.

21. Unhygienic circumstances.....health problems.

- A) give rise to B) bring in to existence C) call for D) replace

Ans : A

22. If she were chosen for the job, she.....a good secretary.

- A) will make B) can make C) would make D) would have made

Ans : C

23. Didn't you go to the restaurant yesterday.....?

- A) No I did'nt B) Yes I didn't C) No, I did D) will, yes.

Ans : A

24. The Chernobil tragedy had taken place about four years.....

- A) past B) ago C) before D) since

Ans : B

25. Every government servant is finding it necessary to supplement his..... by doing something extra.

- A) earnings B) profits C) remuneration D) income

Ans : D

Directions 11-15: In each of the following questions, out of the given alternatives, choose the one which best expresses the meaning of the given word.

26. Abolish

1. end
2. minimize
3. prevent
4. denounce

Ans : A

27. make up

1. invent
2. prepare
3. replace
4. complete

Ans : D

28. dispatched

1. taken by force
2. ordered to go
3. expelled
4. sent

Ans : D

29. ARDUOUS

1. Short
2. Difficult
3. Easy
4. Expensive

Ans : B

30. ABODE

1. Family
2. Farm
3. Car
4. Home

SECTION-1

Mechanical aptitude

SET 1:

1. Stroboscope is used for measuring?
 - A. rpm of the spur gear.
 - B. temprature calibration.
 - C. velocity of the reciprocating engine.
 - d. All the above.
 - e. None of the above.
2. Pneumatic pressure for industrial application?
3. Lathe bed is made of CI because?
4. Carbon is added to steel-to increase hardness
5. Guideways are hardened by which hardening method?

6. Carbon is added to engine parts to enhance——— property.
7. A metal has K temp gradient and $2K$ for another metal. If a hot fluid is passed through a pipe the pipe should be made up of
 - a. K inside, $2K$ outside.
 - b. $2K$ inside, K outside.
 - c. Any of the above.
 - d. None of the above.
8. Crowning of pulley is done for?
9. If temp increases viscosity of gas & liquid
10. Shear angle in press tool -to avoid burr, easy shear.
11. Hardening of shear face in press tool is to
12. Blank size is equal to size of punch in presswork.
13. Bending moment diagram for a UDL in cantilever beam.
 - a. Parabola.
 - b. Triangle.
 - c. Rectangle.
14. for uniform strength of beam condition req.
 - a) Depth constant, width increases.
 - b) Depth increases, width decreases.
 - c) Both should be increases.
 - d) All the above.
 - e) None of the above.
15. M33*2 bolt size refers
16. For this bolt and nut arrangement what type is suitable
 - a.M6-6nos b.M8-4nos c.M10-2nos d.M12-1 .
17. Rupture stress is
18. If two springs of stiffness K_1 & K_2 is in series the equivalent stiffness is
19. Find out odd
 - a. Oxy-acety
 - b. Plasma arc
 - c. Electron beam
 - d. USM
20. butt welding
21. Welding employed for plastics
22. core prints
23. if carbon is added to petrol what happen
24. While machining does not require lubricant.
25. Dirty filter is changed in to cleaner filter What will happen to the air fuel ratio –in the case of carburetor.

26. internal keyway is machined by

27. Aircraft blades are produced by

- a. Casting
- b. Stretch forming
- c. Forging
- d. Bending.

28. when water hammer occurs in the case of welding? why?

29. No of cranks used in 6 cylinder engine

30. Which grade of CI has most shock absorbing and damping capacity

31. damper is a vibration (dissipater).

32. Piezometer is used to measure

- a) static pressure
- b) total pressure
- c) discharge]

33. which of the following is not a fusion welding

- a) spot welding.
 - b) arc welding.
 - c) Electron beam welding
34. besides any thickness 2 metals of different materials can be butt welded by
- a) by adjusting the initial gap.
 - b) By adjusting the current, voltage.
 - c) By adjusting the time of welding.

35. when pulley dia is doubled , width is kept constant , tension is kept constant key size should be

- a) Doubled in length.
- b) Doubled in depth.
- c) Both twice.

36. thermoplastics can be molded by

- a) Vacuum molding
- b) Compression molding
- c) Injection molding

37. AWEIGHT AT SLOPE

B—— WEIGHT THAT IS HANGING

FOR EQUILIBRIUM

- a) A comes down
- b) B comes down
- c) A&B oscillates.
- d) Remains at same.

38) Which load is safe for beam—————

- a) Point load.
- b) UDL locally.
- c) UDL fully.
- d) UVL.

39) For diesel engine which ratio is high?

- a) Compression ratio.
- b) Expansion ratio.

40) Washers are used for providing(bearing area).

41) Which has no differential(train).

42) Constituents of brass (alloy of copper and zinc).

43) Worm And worm wheels are used for— higher reduction.

44) Why in a condenser the pressure drops below vaccum turbine is tripped off(choice:c)

45) Fits will be based on –clerance between mating surface.

46)path traced by water particle flowing from an opening on the bottom of the container is ——
Parabolic.

SET 2:

1) The path of jet discharging from bottom opening in a tank of water (parabola with its vertex at opening)

2)water hammer in pipes occur due to(heavy pressurisation of pipe)

3)specific speed of a pump(delivers unit discharge at unit head)

4)for small discharge at high pressure(reciprocating pump is preferred)

5)ultimate tensile stress of mild steel compared to ultimate compressive stress is(more)

6)rupture stress(load at breaking point/neck area)

7)moment diagram for cantilever beam carrying uniformly distributed load will be(parabolic)

8)moment of inertia of an area is always least with respect to(centroidal axis)

9)crowning on pulleys help(for automatic adjustment of belt position so that belt runs centrally)

10)mitre gears are same as (right angled bevel gears having same no.of teeth)

11)stress concentration is caused due to((d)all of above)

12)function of washer is(provide bearing area)

13)M33x2(metric threads of33mm O.D and 2mm pitch)

14)key used between shaft and pulley is made from(cold rolled mild steel bars)

15)hardness of steel depends on(shape7distribution of carbides in iron)

16)carbon steel is(an alloy of iron and carbon with varying quantities of Phosphorous&sulphur)

17)hardening of Machine tool guideways by(flame hardening)

18)carriage and tailstock are placed in(different guideways)

19)In welding,arc is too long due to(formation of globules in irregular pattern becoz of wandering of arc)

- 20)acetylene is stored in(liquid form)
- 21)purpose of riser is to(help feed casting until all solidification takes place)
- 22)core prints are used to(form set to support&hold core in place)
- 23)unlike materials as well as materials of different thickness can be butt welded by(control of pressure¤t)
- 24)galvanising is(process of coating of zn by hot dipping)
- 25)size of shaper is specified by(length of stroke)
- 26)hardness of wheel(or)grade of wheel refers to(strength of bond of wheel)
- 27)for grinding harder materials(softer grade is used)
- 28)dielectric medium in EDM is(kerosene)
- 29)electroplating requires(1)ac,2)dc,3)high frequency ac)
- 30)no cutting fluid is used in machining (C.I)
- 31)use of gap(snap)gauge
- 32)9.81 kgf=?newton
- 33)general gas eqn is($pV=mRT$)
- 34)carnot cycle has max. efficiency for(reversible engine)
- 35)fuel-air ratio in a petrol engine fitted with suction carburettor,operating with dirty air filter as compared to clean filter will be(higher)
- 36)In S.I engines ,air fuel ratio for idling speed is(1)lean,2)rich...)
- 37)use of piezometer
- 38)specific heat values for solid&liquid(one)
- 39)most ductile metal is(1)gold 2)steel 3)C.I 4)Al)
- 40)aeroplane wings are made of
- 41)adv.of projection welding over spot welding
- 42)electrodes of resistance welding are made of(high strength&high conductivity)
- 43)AIRCRAFT GASTURBINE is made of(timken,haste&inconelalloys)
- 44)when a spring is cut into two,stiffness becomes
- 45)shear angle given in punch during piercing or punching operation is due to
- 46)worm gears used for(1)low redn speed 2)high rednspeed...)
- 47)helical gears are used(for noise redn)
- 48)mirror(image) is due to
- 49)hardest cutting tool material is(tungsten carbide)

50) fit is reqd due to (clearance between two mating parts)

51) damper is used for

52) Thickness ($t=0.5\text{cm}$) shear dia = 7cm & tensile stress = 400kg/sq.cm find force reqd in punch?

SET 3:

1. Why CI is used for most m/c tools (dampening).
2. Which of the following does not require cooling medium (CI).
3. Among the following which is most used for vibration and dampening (GCI).
4. Which gear has no axial thrust (herring bone)?
5. Which has no differential (train).
6. When C is deposited on engine piston, what happens?
7. Constituents of brass (alloy of copper and zinc).
8. In a sheet metal blanking process the dia of the blank is equal to — (dia of punch).
9. Fits will be based on (clearance bet mating parts).
10. C is added to a material why (to increase hardness).
11. Why in a condenser the pressure drops below vacuum turbine is tripped off (choice c).
12. Washers are used for providing (bearing area).
13. Constant enthalpy process (throttling).
14. Hardness of steel depends on (carbon).
15. If two springs of stiffness k_1 and k_2 is in series the equivalent stiffness is (k_1+k_2/k_1k_2) .
16. Which one will have uniform strength (choice a) width same depth varying. b) Depth same width varying. c) Width and depth vary proportionally. D) Any of the above. E) None of the above.
17. In a simple row 6 cylinder radial engine how many cranks will be there (1).
18. In which of the following work done is zero (all the above).
19. How internal keyway is made (broaching).
20. Screw threads are made (rolling).
21. In which instrument more measure is taken (outside micrometer).
22. Most common pressure range used for industrial applications (5 to 10 bar).
23. Worm gears are used for (high reduction ratios).
24. Ni is added to CI to increase ... (toughness).

SECTION 2

Mechanical comprehension

Basically 4 types

- 1) asked to find the gear direction of rotation given the driver rotation
- 2) Minimum effort to lift the load given different types of mechanisms
- 3) Speed of the gear rotation
- 4) Water flowing from a channel

All were diagrammatic.

8-10 questions from pulleys, gears, and shafts.

SECTION 3

Non-verbal reasoning

These were for picture puzzles:

This part is the easiest of all. You can easily solve it in less than 30 minutes. Certain sequence of

8 pictures will be given and u will be asked to find the 9th one, u will have 8 choices.

You can easily solve the first 20-25 questions and others are little difficult.

GD topics:

1. Should Managers Be Good [Technical](#) Personnel?
2. Indian Technical Professionals Wish To Merely Set Up A Career Abroad.
3. Are Indians Less Quality Conscious?
4. Brain drain.

WRITTEN TEST

Total 90 questions , 90 minutes Offline (paper & pen) test---SECTIONAL CUTOFF IS THERE

1. Aptitude (30 quest)
2. Reasoning (30 quest)
3. English (30 quest)

1. Aptitude (30 quest)

1. If he sells 40 mangoes, he will get the selling price of 4 mangoes extra, What is his % increase in profit ?

Ans: 25%

2. Two pipes can fill a [tank](#) in 10 and 12 hours respectively while third pipe will make the tank empty in 20 hours. If all three pipes operate simultaneously, in how many hours the tank will be filled ?

Ans.7hours 30 minutes.

3. Cost of an item is x. It's value increases by p% and decreases by p% Now the new value is 1rupee, what is the actual value ?

Ans.(1000)/(1000-p*p).

4. $6*12*15$ is the volume of some material. How many cubes of edge 3 can be inserted into it ?

Ans.40

5. 100 glasses are there. A servant has to supply glasses to a person. If he supplies the glasses without

any damage he will get 3 paise otherwise he will lose 3 paise. At the end of supplying 100 glasses if

he gets 270 paise, how many glasses were supplied safely.

Ans. 95

6. In a class composed of x girls and y boys what part of the class is composed of girls ?

A. $y/(x + y)$

B. x/xy

C. $x/(x + y)$

D. y/xy

Ans. C

7. What is the maximum number of half-pint bottles of cream that can be filled with a 4-gallon can

of cream (2 pt. = 1 qt. and 4 qt. = 1 gal)

A. 16

B. 24

C. 30

D. 64

Ans. D

8. If the operation, a is defined by the equation $x ^ a y = 2x + y$, what is the value of a in $2 ^ a a = a ^ 3$

A. 0

B. 1

C. -1

D. 4

Ans. B

9. A coffee shop blends 2 kinds of coffee, putting in 2 parts of a 33p. a gm. grade to 1 part of a 24p. a gm.

If the mixture is changed to 1 part of the 33p. a gm. to 2 parts of the less expensive grade, how much

will the shop save in blending 100 gms.

A. Rs. 90

B. Rs. 1.00

C. Rs. 3.00

D. Rs. 8.00

Ans. C

10. There are 200 questions on a 3 hr examination. Among these questions are 50 mathematics problems.

It is suggested that twice as much time be spent on each maths problem as for each other question.

How many minutes should be spent on mathematics problems

A. 36

B. 72

C. 60

D. 100

Ans.B

11. In a group of 15, 7 have studied Latin, 8 have studied Greek, and 3 have not studied either. How many of these studied both Latin and Greek

- A. 0
- B. 3
- C. 4
- D. 5

Ans.B

12. In June a baseball team that played 60 games had won 30% of its game played. After a phenomenal winning streak this team raised its average to 50% .How many games must the team have won in a row to attain this average?

- A. 12
- B. 20
- C. 24
- D. 30

Ans. C

13. M men agree to purchase a gift for Rs. D. If three men drop out how much more will each have to contribute towards the purchase of the gift ?

- A. $D/(M-3)$
- B. $MD/3$
- C. $M/(D-3)$
- D. $3D/(M^2-3M)$

Ans. D

14. A company contracts to paint 3 houses. Mr. Brown can paint a house in 6 days while Mr. Black would take 8 days and Mr. Blue 12 days. After 8 days Mr. Brown goes on vacation and Mr. Black begins to work for a period of 6 days. How many days will it take Mr. Blue to complete the contract?

- A. 7
- B. 8
- C. 11
- D. 12

Ans.C

15. 2 hours after a freight train leaves Delhi a passenger train leaves the same station traveling in the same direction at an average speed of 16 km/hr. After traveling 4 hrs the passenger train overtakes the freight train. The average speed of the freight train was?

- A. 30
- B. 40
- C. 58
- D. 60

Ans. B

16. A fold density is 19 times greater than the water and for copper it is 9 times. At what ratio you can mix gold and copper to get 15 times denser than water. ?

Ans: 3 : 2

17. There is a room with 6' x 8'. A 1' tile is fixed along the 4 walls in one row. How many 1" tiles require to finish the work. ?

Ans: 24

18. 2 persons can finish a job in 8 days. First person alone can finish the work in 24 days. How many days does the second person take to finish the job?

Ans: 12 days

19. In a class total 34 **students**, 16 are have a **brother**, 15 are have sisters, 9 students don't have either brothers or sisters. Find the number of students having both brother and sisters.

Ans: 6

21. In a car wheel, two spokes cover 15 degree. Then for the entire car, how many spokes are there?

Ans: 24

20. What is the angle of degree suspended when two hands of clock showing the time 2:30?

Ans: 105 degrees

21. The age difference between two brothers is 3 years. After 6 years the ratio between the age is 9:8. What are their ages?

Ans: 21 and 18

22. A person's salary is getting reduced by 20%. What percentage should be added to get back his original salary?

Ans: 25%

23. Two persons start at the same point, walk in opposite directions with 5 km/hr and 5.5 km/hr respectively.

What is the distance separated after 2 and half hrs?

Ans: 26.25 (approx)

24. A person starts walking at a speed of 5 km/hr through half the distance, rest of the distance he covers with a speed 4km/hr. Total time of travel is 9 hours. What is the maximum distance he can cover?

Ans: 40km

25. Initially two cups of same volume are present with milk filled upto $\frac{3}{5}$ th and $\frac{4}{5}$ th of their volumes.

Water is then filled. Then two mixtures are mixed. Find the ratio of water to milk in the mixture.

Ans: 3 : 7

26. 16 grams of radioactive material decays into 8 grams in 10 years. How long will it take to decay to 1 gram?

Ans: 70 yrs

27. In a rectangle the length is increased by of the original length. By what proportion should the width be reduced so that the area will be the same?

Ans: 33

28. If a square is formed by the diagonal of the square as an edge, what is the ratio between the area?

Ans: 2

29. The perimeter of a rhombus is 52 units. One of its diagonal is 24 units. What is its second diagonal's length?

Ans: 10

30. A batsman scored 18 runs in his 18th innings and that makes his average 18. Find his average up to the 17th innings?

Ans: 19

2. Reasoning (30 quest)

1. One of the following is my secret word: AIM DUE MOD OAT TIE. With the list in front of you, if I were to tell you any one of my secret word, then you would be able to tell me the number of vowels in my secret word.

Which is my secret word?

Ans. TIE

2. One of Mr. Horton, his wife, their son, and Mr. Horton's mother is a doctor and another is a lawyer.

a) If the doctor is younger than the lawyer, then the doctor and the lawyer are not blood relatives.

b) If the doctor is a woman, then the doctor and the lawyer are blood relatives.

c) If the lawyer is a man, then the doctor is a man. Whose occupation you know?

Ans. Mr. Horton: he is the doctor.

3. Three piles of chips--pile I consists one chip, pile II consists of chips, and pile III consists of three

chips are to be used in game played by Anita and Brinda. The game requires:

a) That each player in turn take only one chip or all chips from just one pile.

b) That the player who has to take the last chip loses.

c) That Anita now have her turn. From which pile should Anita draw in order to win?

Ans. Pile II

4. Mr. and Mrs. Aye and Mr. and Mrs. Bee competed in a chess tournament. Of the three games played:

a) In only the first game were the two players married to each other.

b) The men won two games and the women won one game.

c) The Ayes won more games than the Bees.

d) Anyone who lost game did not play the subsequent game. Who did not lose a game?

Ans. Mrs.Bee

5. If A to Z is written in the reverse order which is the 5th letter to the right of the 11th letter from the left ?

Ans . K

Directions 6-10 The office staff of XYZ corporation presently consists of three bookkeepers A, B, C and 5 secretaries D, E, F, G, H. The management is planning to open a new office in another city using 2 bookkeepers and 3 secretaries of the present staff . To do so they plan to separate certain individuals who don't function well together. The following guidelines were established to set up the new office

I. Bookkeepers A and C are constantly finding fault with one another and should not be sent together to the new office as a team

- II. C and E function well alone but not as a team , they should be separated
III. D and G have not been on speaking terms and shouldn't go together
IV Since D and F have been competing for promotion they shouldn't be a team

6. If A is to be moved as one of the bookkeepers, which of the following cannot be a possible working unit.

- A. ABDEH
- B. ABDGH
- C. ABEFH
- D. ABEGH

Ans.B

7. If C and F are moved to the new office, how many combinations are possible

- A. 1
- B. 2
- C. 3
- D. 4

Ans.A

8. If C is sent to the new office, which member of the staff cannot go with C

- A. B
- B. D
- C. F
- D. G

Ans.B

9. Under the guidelines developed, which of the following must go to the new office

- A. B
- B. D
- C. E
- D. G

Ans.A

10. If D goes to the new office, which of the following is/are true

- I. C cannot go
 - II. A cannot go
 - III. H must also go
-
- A. I only
 - B. II only
 - C. I and II only
 - D. I and III only

Ans.D

11.If Leader is coded as Actor, Actor as an Administrator, Administrator as a Traitor, Traitor as a Social-reformer,

then who takes part in the Parliamentary elections?

- (A) Administrator
- (B) Leader
- (C) Traitor

- (D) Social-Reformist
(E) None of these

Ans : (E)

12. If '245' means—'Art and Talent' in a certain code language, '316' means— 'Callous to Generous', '147' means—

'Callous and Polite' then what is the code used for 'to' ?

- (A) Only 3
(B) Only 1
(C) 3 or 6
(D) Only 6
(E) None of these

Ans : (C)

13. In a certain code language '579' means—'Kanchan is soft-spoken', '694' means—'Soft-spoken beautiful pure',

'473' means—'Ganga is pure', then what is the code used for 'Kanchan' ?

- (A) 7
(B) 5
(C) 9
(D) Can not be determined
(E) None of these

Ans : (B)

14. Which of the following relates to FLOWER in the same way as RTERBN relates to SECTOR?

- (A) RWLGPF (B) EOFKUQ (C) EOFMXS
(D) RWLEPD (E) RWLEND

Ans (E)

15. air is cloud, cloud is rain, rain is water, water is sand so what is cloud?

Ans :sand

Directions (questions 16 to 20): Read the following information carefully and answer the questions given below :

(1)A, B, C, D and E are five friends.

(2)B is elder to E, but not as tall as C.

(3)C is younger to A, and is taller to D and E.

(4)A is taller to D, But younger to E.

(5)D is elder to A but is shorter in the group.

16. Who among the following is the eldest?

- A). A B). B C). C D). D E). None of these

Ans: E

17. Which of the following pairs of students is elder to D?

- A) BA B). BC C). BE D) EA E) None of these

Ans: E

18. Which of the following statements is correct about B?

- 1) B is not the tallest 2) B is shorter to E

(3) When they are asked to stand in ascending order with respect to their heights, B is in the middle

- A) Only (1) is correct B) Only (1) and (3) are correct C) All are correct
D) All are incorrect E) None of these

Ans: A

19. If F, another friend is taller than C, how many of them will be between F and E according to their height?

- A) None B) One C) Two D) Three E) None of these

Ans: E

20. If a selection is to be made among them who would be relatively older and also taller, who among them should be chosen?

- A) A B) B C) C D) D E) E

Ans: B

Directions (questions 21 to 25): Each of the questions below consists of a question and two statements marked I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer

(A) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question. (B) If the data in statements I alone are not sufficient to answer the question, while the data in statement II alone are sufficient to answer the question. (C) If the data either in statement I or in statement II alone are sufficient to answer the question. (D) If the data even in both the statements I and II together are not sufficient to answer the question. (E) If the data in both statements I and II together are needed to answer the question.

21.. What does 'Ne' stands for in the code language?

I. 'Na Ni Nok Ne' means 'I will tell you' and 'Ni Nok Ne Nam' means 'he will tell you' in that code language.

II. 'Ni Ne Mo Nam' means 'will he call you' and 'Ne Mok Sac Ni' means 'how will you go' in that code language.

Ans (D)

22. Who amongst P, Q, R, S, T and U is the tallest?

I. P is taller than R and T but not as tall as U, who is taller than Q and S.

II. R is the third in height in the ascending order and not as tall as U, P and Q, Q being taller than P but not the tallest.

Ans (C)

23. Who among A, B, C, D, E & F read the book last?

I. F, who gave the book to B after reading, was third to read the same.

II. C, who read the book after A, was the third person to read the book before it reached E.

Ans (D)

24. Who is paternal uncle of Pavan?

I. Pavan is brother of Poornima, who is daughter of Meena, who is sister of Kumar, who is brother Smrithi.

II. Prithvi is brother of Indrajith, who is husband of Poornima, who is mother of Ganga, who is sister of Pavan.

Ans (B)

25. What is Milan's rank in the class of 44 students?

I. Ramesh, whose rank is 17th in the class, is ahead of Shyam by 6 ranks, Shyam being 7 ranks ahead of Milan.

II. Suketu is 26 ranks ahead of Milan and Shyamala is 6 ranks behind Milan while Savita stands exactly in the middle of Shyamala and Suketu in ranks, her rank being 17.

Ans (c)

Directions 26-27: Each question consists of five statements followed by options consisting of three

statements put together in a specific order. Choose the option which indicates a valid argument, i.e. where the third statement is a conclusion drawn from the preceding two statements.

26. A. All software **companies** employ knowledge workers.
B. Tara Tech employs knowledge workers.
C. Tara Tech is a Software company.
D. Some software companies employ knowledge workers.
E. Tara Tech employs only knowledge workers.

A) ABC B) ACB C) CDB D) ACE

Ans: B

27. A. Traffic congestion increases carbon monoxide in the environment.
B. Increase in carbon monoxide is hazardous to health.
C. Traffic congestion is hazardous to health.
D. Some traffic congestion does not cause increased carbon monoxide.
E. Some traffic congestion is not hazardous to health.

A. CBA B. BDE C. CDE D. BAC

Ans: D

28. All scientists are fools. All fools are literates.

- A. All literates are scientists
B. All scientists are literates
C. No scientists are literates
D. Both (a) and (b) are correct

Ans. B

29. All shares are debentures. No debentures are deposits.

- A. All shares are deposits

- B. Some shares are deposits
- C. No shares are deposits
- D. None of the above

Ans. C

30. Some green are blue. No blue are white.

- A. No green are white
- B. Some green are white
- C. No green are white
- D. None of the above

Ans. B

3. English (30 quest)

Directions 1-5

To those who do listen, the desert speaks of things with an emphasis quite different from that of the shore, the mountain, the valley or the plains, whereas these invite action and suggest limitless opportunity and exhaust less resources, the implications and the mood of the desert are something different. For one thing, the desert is conservative not radical. It is more likely to provide awe than to invite conquest. The heroism which it encourages is the heroism of endurance, not that of conquest. It brings man up against this limitation, turns him upon himself and suggests values which more indulgent regions suppress. Sometimes it includes contemplation in men who have never contemplated before : And of all the answers to the question- what is a desert good for – 'contemplation' is perhaps the best.

1. In order to receive the desert's message, the beholder needs to be
- a) courageous in his reaction.
 - b) conservative in his responses.
 - c) A good listener.
 - d) Sensitive to nature.

Ans :D

2. The desert is unique among landscapes in that it encourages only
- a) contemplation
 - b) Indolence
 - c) Heroic Endeavor
 - d) Adventurous Spirit

Ans :A

3. If one responds with insight to the mood of the desert, it evokes
- a) An inclination for deep thought
 - b) The possibility of unending resources
 - c) The desire for Heroic conquest
 - d) A sense of intense revulsion

Ans :A

4. The writer calls the desert "conservative rather than radical" because it provides an environment that

- a) Inspires man to explore it
- b) Offers unlimited opportunity to conquer
- c) Tests ones Endurance
- d) makes one gloomy

Ans :C

5. What does the phrase "it brings man up against his limitations", mean?

- a) It makes man feel hopeless about his limitations
- b) It makes man aware of his limitations
- c) It compels man to fight against his limitations
- d) It persuades man to overcome his limitations

Ans :D

Directions 6-10: In each of the following questions, there is a certain relationship between two given words on one side of : : and one word is given on another side of : :while another word is to be found from the given alternatives, having the same relation with this word as the words of the given pair bear. Choose the correct alternative.

6. Errata : Books : : flaws:?

- (A) Manuscripts
- (B) Metals
- (C) Speech
- (D) Charter

Ans: (B)

7. Planet : Orbit : : Projectile : ?

- (A) Trajectory
- (B) Track
- (C) Milky way
- (D) Path

Ans: (A)

8. Appraiser : Building : : Critic : ?

- (A) Book
- (B) Masterpiece
- (C) Judge
- (D) Gold

Ans: (A)

9. King : Throne : : Rider : ?

- (A) Seat
- (B) Horse
- (C) Saddle
- (D) Chair

Ans: (C)

10. Reluctant : Keen : : Remarkable : ?

- (A) Usual
- (B) Restrained
- (C) Striking
- (D) Evolution

Ans: (A)

Directions 11-15: In each of the following questions, out of the given alternatives, choose the one which best expresses the meaning of the given word.

11. **BEMOAN**

- A. Lament B. Soothe C. Denounce D. Loathe

Ans: A

12. **ABRADE**

- A. Scold B. attach C. Wear off D. Twist

Ans: C

13. **DISTINGUISH**

- A. Darken B. Abolish C. Differentiate D. Confuse

Ans: A

14. **PORTRAY**

- A. Communicate B. Paint C. Express D. Draw

Ans: D

15. **INFINITE**

- A. Strange B. Endless C. Indefinite D. Vague

Ans: B

Directions 16-17: Read each sentence to find if there is any grammatical error in it. If there is any error, it will be only one part of the sentence. The number or alphabet of that part is your answer.

16. I shall / ring him / tomorrow / in the afternoon.

- A B C D

Ans: B

17. I enjoyed / during my / stay in / England.

- A B C D

Ans: A

18. I believe / that respect / is more preferable than / money.

- A B C D

Ans: C

19. I never have / visited / or intend to visit / foreign countries /

- A B C D

Ans: C

20. In this way nuclear fission / or the splitting / of the atom / have been achieved /

1) What is a smith chart used for

2) How is impedance matching done and why do we need it (basically can talk about ideal power supply needing a low internal resistance and high load to function properly. so one stage of transistor amplifier has to have low o/p resistance and high i/p resistance for next stage- do look up all basic electronics) (also about sinking high currents without damage)

3) Name all flipflops u know and working esp. master slave.

4) C programming - program to find how many 1's are present in an integer variable using bitwise operators. something about dynamic allocation, static functions, macros

5) c++ virtual functions

6) what types of control r there

7) QPSK

8) Though i did mention that i was most comfortable with digital systems, microprocessors, i was asked only one or 2 questions on this topic like what is program counter, stack operation, etc.

9) A lot about final year project.

10) All electives, and subjects mentioned in CV.

11) CV as in most companies, is inspected very carefully during interview. so be careful what u put there lest they ask u something u are not prepared for.

i am sorry i cant remember any other questions but i hope this gives u atleast a rough idea about what subjects to cover.

also ur written test marks are very important. the order in which they call the people also indicates where u stand so try and

compensate by doing well in interview if ur name is towards the end of the list. u would improve ur chances i believe.

hr interview was only for around 10 minutes, they call if u have cleared tech interview. they asked about what i had been doing for the past 6 months, my plans, how L&T would help me. why L&T etc. the procedure in mumbai however was totally different I think. they had GD, and HR interview i hear was gruelling. ur GK(number of states in our country, number of lady CMs in India,etc.)

is tested thoroughly. The form that u are given to fill before the interview, is required to be filled in your neatest handwriting I really think this is imp.) and do take a lot of trouble to write things that would put u in good light. lots of luck to all u chennai people trying for L&T Infotech. Though they have a 2 year bond, this company is really worth going for. Do hope this information helps you a bit.

THE PAPER IS IN TWO PARTS IN THE FIRST ONE THERE ARE 40 QUESTIONS OF VISUAL REASONING AND IN SECOND THERE ARE 50 QUESTIONS FROM MISCELLANEOUS 30,40 TOPICS Question paper is here:

Part 1:-> Psychometric test.

Easiest thing in the world. Eight figures with you having to predict the ninth. Just use some common sense and u r thru this test. A WORD OF CAUTION tho; plz. do not waste time on a question if u r not sure ,just come back later n then do it. (36questions- 40minutes.)

Part 2:-> Engineering syllabus based Technical Test

Some of the questions r a s follows:-

a) What is reverse engineering.

- b) Octal of some binary number(comes to 165 in decimal after conversion).
- c) A cobol prog with an integer array(I guess coz i did not have Cobol in my syllabus).
- d) A problem on Depth first search(very simple).
- e) Question on Grammar's frm Theory of computer science.
- f) Something like Select the correct option when A Subset of(B Subset of(A Intersection B).if B is completely contained by A.
- g) A question on memory(quite simple).
- h) A couyple of questions on C(one on pointers).

We were given the topic "Do u think women make better managers?"A debatable topic , but we merely agreed with each other and no big problem with it.

Papers -2

1.APM-arithmetic progression matrices 36 questions -40 minutes

2.computer basis -like OP,UNIX,cobol,....(only basic questions)-40 questions -30 minutes.,for all branches the pattern is samefor APM they gave a booklet author-j.v.raven(not sure)very easy even though those who didn't receive call letter after applying don't worry it will end in a walkin. computer questions ex:why goto statement must be avoided,function of engineering reversal, specification&design are related by (followed by venn diagram),some questions in pascal...two c program using while and for staements,

The first part is entirely from this particular book. Look for it at the second hand book sellers.

They give you 40 mins for 36 questions."Advanced Progressive Matrices - JC Raven"

<http://www.jcravenltd.com/productrpm.htm> is the website about this book.

The second part is of 30 minutes and covers various (IMHO irrelevant) topics. Some more questions.

Remember all are multiple choice questions with either 4 or 5 options so you have at least a 20-25% chance of being right even if you are clueless. No negative marking.

1. what is an inode in unix?
2. small program in pascal to add a node to a linked list. (You have totell what the program does)
3. C strcmp program (You have to tell what the program does)
4. set of dos commands testing basic familiarity with dir, ren *.t?t, cd etc.
5. what is the order of binary search?
6. what is the order of strassens matrix multiplication?
7. you have to maintain the sorted order of integers and insert integers . which data structure would you use? (tree, list, queue, array?)
8. There are two lists of integers to be merged. Which method would you not use?

9. In an online database system when is data written to disk? (on pressing enter, when commit or update is encountered, at end of data, all of the above) (was clueless!)
10. Small prolog function which prints 2345true. You need to tell output.
11. Convert this binary into octal. 010 100 101
12. Lisp program given. what does it do? (GCD, LCM, Multiplies mxn?)
13. What is paging?
14. what is segmentation?
15. 2/3 questions on equivalence class, associative and commutative properties.
16. question on poset.
17. one figure given, give regular expression for it (very basic)

Sample Paper 2

1. $a([B ([A^ C])]$

where '(' and '^' are symbols related to SET and '^' is not exact symbol , it is curved not conical(due to limitation of key board), represents "union"

a. has no sense

b. It is associative as well as commutative

2. 2's complement of given Binary number

3. Octal Equivalent of a Binary number

4. Given --

$$A^c + AB + BC =$$

a. AC

--

b. BC+AC