

TISSNET 2014

December 22, 2013



TISS is one of the most prestigious institutes as far as the field of Human Resources Management is concerned. The selection procedure as well as the pedagogy is unique.

This year the entrance exam **TISSNET** was taken by around 12000 students. The exam was conducted in two modes, online and offline. The candidates had to choose one of the two, while filling the form. The paper comprised of 95 questions to be solved in 100 min. The time was sufficient to attempt 95 questions, as the questions were very easy.

This year the paper was common for all streams of TISS across all its colleges.

The questions on **General Awareness** changed their flavour this year. It gave a lot of importance to history questions based on Indian History, International History, Dates, Books, Awards, Laws and the like. Many questions were unexpected (as per last year's pattern) but then, the examiner reserves the right to ask anything! A score of 10 can be considered very good in this section. There were very little questions from the social awareness part!

The questions based on **Mathematical & Logical Reasoning** were very easy, and anybody who has prepared for CAT or any standard MBA entrance exam could have solved all the questions easily. The questions were based on pipe & cisterns, time speed and distance, work and time, HCF and LCM, averages, percentages, ratios, SI & CI, Geometry, permutation & combination etc. A score of 25 can be considered achievable, and good in this section.

The **English Proficiency** section had questions on analogies, antonyms; fill in the blanks and RCs. The analogies were slightly confusing with close options, the other questions were easy. A score of 18-20 can be considered achievable, and good in this section.

Bird's Eye View

Total Number of Questions – 95

Total Time – 100 min

The Marking Scheme: No negative marking

Number of Options – 4

Medium of marking for candidates taking offline– Pencil

Medium of marking for candidates taking online– Mouse

Sectional Break-up

Section	Topic	No. of Ques.	Difficulty Level
I	General Awareness	30	Tough
II	Mathematical & Logical Reasoning	35	Easy
III	English proficiency	30	Easy

– Expected Cut-Offs –

No sectional cut-offs

65 + marks.

Best wishes for the tests ahead !

LIST OF GK QUESTIONS

Q.1 What is the main feature of Dead sea?

- (1) It is a sea that was once a sea but now it's just a dried up sea bed.
- (2) It is the sea that has extremely high density of salt.
- (3) It is the sea that has the most acidic content & therefore can kill anyone who enters it.
- (4) It is the sea where dead sailors were given a burial at sea.

Answer : As everyone knows, the answer is (2). It is 9.6 times as salty as the ocean water!

Q.2 What is Archipelago?

- (1) Group of free floating islands.
- (2) Group of islands that are in close proximity to each other.
- (3) Group of islands with one island keeping the rest in place.
- (4) Very big island

Answer : The best answer is (2). The five main archipelagos are Indonesia, Japan, the Philippines, New Zealand, and the British Isles. The largest archipelagic state in the world, by area and population, is Indonesia. The archipelago with the most islands is the Archipelago Sea in Finland.

Q.3 Which among the following is India's first indigenously developed vaccine for Japanese Encephalitis?

- (1) JESVAC
- (2) JEPVAC
- (3) JECVAC
- (4) JENVAC

Answer. The best answer is (4). On Oct 04, 2013 the health ministry introduced Jenvac, the country's first indigenously developed vaccine for Japanese encephalitis, that will potentially reduce India's dependence on imports from China to immunize nearly 4 million children annually. The vaccine has been jointly developed by scientists at the Indian Council of Medical Research (ICMR), National Institute of Virology (NIV) and Bharat Biotech International Ltd.

Q.4 Theodolite is a precision instrument used for measuring which of the following?

- (1) Buoyancy
- (2) Surface tension
- (3) Angles
- (4) Frequency of light

Answer. The best answer is (3). A theodolite is a precision instrument for measuring angles in the horizontal and vertical planes.

Q.5 With which of the following Mr. Douglas Engelbart was associated?

- (1) Computer Mouse
- (2) Keyboard
- (3) Monitor
- (4) Floppy Disk

Answer. The best answer is (1). Douglas Carl Engelbart (January 30, 1925 – July 2, 2013) was an American engineer and inventor, and an early computer and Internet pioneer. He is best known for his work on the challenges of human-computer interaction, particularly while at his Augmentation Research Center Lab in SRI International, resulting in the invention of **the computer mouse**, and the development of hypertext, networked computers, and precursors to graphical user interfaces.

Q.6 Who was the first Sultan of Delhi?

Answer. Qutb-ud-din Aibak, a former slave (Mamluk) of Muhammad Ghori, was the first sultan of Delhi and his dynasty managed to conquer large areas of northern India.

Q.7 Which of the following is not considered as the dynasty of Delhi Sultanate?
(1) Sayyid dynasty (2) Lodi dynasty (3) Mamluk dynasty (4) Mughal dynasty

Answer. Best answer is (4). Rest are all part of the Delhi sultanate.

Q.8 Which one of the following is the only woman ruler of Delhi sultanate?
(1) Dilras Banu (2) Jahanara (3) Razia Sultan (4) Mumtaz Mahal

Answer. Best answer is (3). The Delhi Sultanate is the only Indo-Islamic empire to have enthroned one of the few female rulers in India, Razia Sultana (1236–1240).

Q.9 Which one of the following British Governor Generals is nicknamed “The Mountain Rat”?
(1) Lord Dalhousie (2) Warren Hastings (3) Robert Clive (4) Lord Curzon

Answer. Sorry not sure of this answer.

Q.10 What is the code name of the military operation conducted to annex Hyderabad into the Indian Union?
(1) Operation Checkmate (2) Operation Polo (3) Operation Pawan (4) Operation Woodrose

Answer. Best answer is (2). Operation Polo, the code name of the Hyderabad Police Action was a military operation in September 1948 in which the Indian Armed Forces invaded the State of Hyderabad and overthrew its Nizam.

Q.11 Grand construction of Madurai is attributed to which Chola king?
(1) Elara Chola (2) Rajendra Chola (3) Karikala (4) Raja Raja

Answer. Best answer is (3).

Q.12 Meru which is to be considered to be the abode of Lord Vishnu is to be found today in which one of the following countries?
(1) China (2) Thailand (3) Indonesia (4) Cambodia

Answer. Best answer is (2). As per certain murals, it is in Thailand. The answer is doubtful.

Q.13 As per the American declaration of Independence the true meaning of freedom of speech is referred to
(1) citizen’s right to express their views.
(2) right of the government of United States of America to negotiate terms of trade with any other nation.
(3) permission given to people to hold public meetings.
(4) governments right to clearly state its goals to people.

Answer. Best answer is (1).

Q.14 Head of the Church of England or the Protestant church is
(1) Monarch of England (2) Archbishop of Canterbury
(3) The Pope (4) Cardinal of Westminster

Answer. Best answer is (2). The most senior bishop of the Church of England is the Archbishop of Canterbury, who is the metropolitan of the southern province of England, the Province of Canterbury. He has

the status of Primate of All England. He is the focus of unity for the worldwide Anglican Communion of independent national or regional churches.

Q.15 Glorious revolution occurred in Germany in which of the following year?
(1) 1789 (2) 1688 (3) 1715 (4) 1776

Answer. Best answer is (2). It actually started in England.

Q.16 Adolph Hitler's rule in Germany is referred to as
(1) Sittlichkeit (2) Deutsches Reich (3) Gesselschaft (4) Vost telling

Answer. Best answer is (2).

Q.17 Russian revolution of 1917 is called as
(1) Czarist revolution (2) Bolshevik revolution (3) Bolshoi revolution (4) Menshevik revolution

Answer. Best answer is (2). Under the revolutionary leadership of Vladimir Ilyich Ilyanov, the Bolsheviks overthrew the Czarist regime and everyone else, including the Mensheviks, and established the Soviet Union.

Q.18 The Supreme Court of India recently gave a verdict against one of the following companies on patent claims for cancer drugs?
(1) Glaxo (2) Ranbaxy (3) Novartis (4) None of these

Answer. Best answer is (3). In April 2013, India's Supreme Court rejected Novartis attempt to win patent protection for its blockbuster cancer drug Glivec.

Q.19 Dr. Baba Saheb Ambedkar converted to Buddhism in the year
(1) 1956 (2) 1957 (3) 1936 (4) 1959

Answer. Best answer is (1). For the next five years after 1951, Babasaheb carried on a relentless fight against social evils and superstitions. On October 14, 1956 at Nagpur he embraced Buddhism.

Q.20 has been on a fast for over a decade to protest against the armed forces special power act in Manipur.
(1) Vrinda kamat (2) Irom Sharmila (3) Arundhati Roy (4) Soni Sori

Answer. Best answer is (2). Irom Sharmila Chanu, also known as the "Iron Lady of Manipur" or "Mengoubi" is a civil rights activist, political activist, and poet from the Indian state of Manipur. On 2 November 2000, she began a hunger strike which is still ongoing.

Q.21 World consumer's right day is observed on

Answer. On 15 March 1962, President John F Kennedy gave an address to the US congress in which he formally addressed the issue of consumer rights. He was the first world leader to do so, and the consumer movement now marks 15 March every year as a means of raising global awareness about consumer rights.

Q.22 The Commonwealth Heads of government meeting was recently hosted by which of the country?
(1) Pakistan (2) India (3) Sri Lanka (4) None of these

Answer. Best answer is (3). Amidst all the war crimes controversy, Sri Lanka hosted it.

Q.23 Which of the following award is known as Asia's Nobel Prize?
(1) Gandhi Peace award (2) Ramon Magsaysay award
(3) Presidential award for Peace and Cooperation (4) None of these

Answer. Best answer is (2). The Ramon Magsaysay Award is often considered to be Asia's Nobel Prize. The prize was established in April 1957 by the trustees of the Rockefeller Brothers.

Q.24 16th Non-Alignment summit which was held in 2012 was held in which country?
(1) Iran (2) Pakistan (3) India (4) Nepal

Answer. Best answer is (1). The 16th Summit of the Non-Aligned Movement was held from 26 to 31 August 2012 in Tehran, Iran. The summit was attended by leaders of 120 countries.

Q.25 Which one of the following is the brand ambassador of National Tobacco Control Campaign?
(1) Mahendra Singh Dhoni (2) Sachin Tendulkar
(3) Rahul Dravid (4) Kapil Dev

Answer. Best answer is (3). In Sep, 2013, the Union Health Ministry announced former Indian cricket team captain Rahul Dravid as brand ambassador for its National Tobacco Control campaign.

Q.26 On 1st May based on the recommendations of the Parliamentary Standing Committee the Union Cabinet approved bill on street vendors. The bill is known as?

Answer. (Protection of Livelihood and Regulation of Street Vending) Bill, 2012

Q.27 Who is the author of the novel "Walden Two"?

Answer. Walden Two is a utopian novel written by behavioral psychologist B. F. Skinner, first published in 1948.

Q.28 Painting "Hamsa Damayanti" is the masterpiece of?

Answer. Hamsa Damayanti painting is one of the masterpieces by the Indian painter Raja Ravi Varma.

Q.29 "India wins Freedom" is an autobiography by

Answer. Abul Kalam Azad wrote it, as he spent the final years of his life focusing on writing it as an exhaustive account of India's freedom struggle and its leaders.

Q.30 Who is the author of book “Development as freedom”?

Answer. Development as Freedom is a book by economist Amartya Sen, published in 1999, which focuses on international development.

LIST OF QUANTS QUESTIONS

Q.31 Total of 60 students appeared for Mathematics and science talent search exam held on 2 consecutive days. If 20 students appeared for both Mathematics and Science talent exams, than how many seats were occupied by students on the two days put together?

Answer : 80

Q. 32 Among a group of 60 people who like Indian classical music, 38 like Hindustani music & 46 like Carnatic music. How many like both Hindustani & Carnatic music?

Answer : 24

Q.33 Out of 350 students staying at a university hostel, 100 students speak Hindi, 75 speak English & 25 speak both Hindi & English. How many students do not speak either Hindi or English?

Answer : 200

Q. 34 Total of 120 tickets were sold for the most popular play Agra Bazar on 2 consecutive days. If 30 people watched the play on both the days, than totally how many watched the play in 2 days?

Answer : 90 watched

Q. 35 Find the missing term

5, 6, 10, 19, 35, ...

(1) 65

(2) 36

(3) 60

(4) 47

Answer : 60 (Differences are squares of natural numbers)

Q.36 Find the missing term 3, 10, 29, 66, ...

(1) 133

(2) 127

(3) 148

(4) 99

Answer : 127 (Each term is cube of natural number plus 2)

Q.37 Find the odd one out 32, 49, 77, 92

(1) 32

(2) 49

(3) 77

(4) 92

Answer : 49 as it is a perfect square.

- Q.38 Find the missing term 2, 13, 22, 33, 42, ..., 62
(1) 43 (2) 53 (3) 52 (4) None of these

Answer : 53, as then we get the differences in the series of 11, 9, 11, 9, 11 ...

- Q.39 Find the missing term 5, 7, 10, 14, 19, ...
(1) 25 (2) 23 (3) 20 (4) 24

Answer : 25, as then the differences come as 2, 3, 4, 5, 6, 7 ...

- Q.40 Using digits 5, 3, 2 with repetition, how many different 3 digit numbers can be made?

Answer : 27 numbers (3 x 3 x 3)

- Q.41 Using digits 6, 5, 4, 3, 2, 1 with repetition, how many different 3 digit numbers can be made?

Answer : 216 numbers (6 x 6 x 6)

- Q.42 Out of a group of 6 equally competent girls, three are selected to represent their school in a regional mathematics Olympiad exam. In how many ways can this be done?

Answer : 20 ways (6 C 3)

- Q.43 Using digits 5, 3, 2 without repetition, how many different 3 digit number can be made?

Answer : 6 numbers (3 x 2 x 1)

- Q.44 MA education students have to choose one pedagogy course from an option of three (mathematics, Science and language) and one thematic course from an option of two (leadership, social justice) along with compulsory courses. How many different combinations of optional courses are possible?

Answer : 6 combinations (3 C 1 x 2 C 1)

- Q.45 Using digits 5, 3, 2, 1 without repetition, how many odd numbers can be made?

Answer : 48 numbers (1 digit nos. = 3, 2 digit nos. = 3 x 3 = 9, 3 digit nos. = 2 x 3 x 3 = 18, 4 digit nos. = 1 x 2 x 3 x 3 = 18 => Total = their sum)

- Q.46 A and B working together can finish a work in 6 hours. A alone can finish it in 10 hours. How long will take B to finish the same work alone?

Answer : B in 15 hours. (A + B = 1/6, A = 1/10)

Q.47 A water tank has two inlets of different sizes through which water can be filled. It takes 2 hours for the larger inlet and 3 hours for the smaller inlet pipe to fill the tank if it is empty. On a certain day both were open for 1 hour after which the larger one was closed. How much longer will it take for smaller to fill the remaining part of the tank?

Answer : 30 minutes [$(1 \times \frac{1}{2} + \frac{1}{3}) + X \times \frac{1}{3} = 1$]

Q.48 If machine A needs 2 hour to finish a work, machine B 3 hours and machine C 6 hours. Together machine A, B and C take how much time to complete the work?

Answer : 1 hour ($A + B + C = \frac{1}{2} + \frac{1}{3} + \frac{1}{6} = 1$)

Q.49 It took Ramaya 15 minutes more than the usual time to travel the distance from her home to office today. If her speed was $\frac{2}{3}$ of her usual speed, what is the usual time it takes for her to travel the same distance?

Answer : $\frac{3}{2}$ Time = 1.5 time of usual time \Rightarrow 0.5 of usual time = 15 min \Rightarrow Usual time = 30 min

Q.50 A car starting from point A at a speed of 60 kmph is moving towards B. At the same time another car from B is moving towards A at an average speed of 72 kmph. How many kilometer away from A will the two car meet each other if the total distance between the A and B is 22 km?

**Answer : 10 km (Both moving in opposite directions. So speed gets added up. Time taken to cover the distance = $22 / (60 + 72) = \frac{1}{6}$ hr = 10 min
So, distance of point from A at which they meet = 10 km**

Q.51 A car takes twenty five minutes to travel from one point to another at an average speed of 40 kmph. What is the approximate distance between the two points?

Answer : 17 km approx (Distance = Speed x Time = $40 \times \frac{25}{60}$)

Q.52 A tank 10m long and 5m wide has water up to a depth of 3m. What is the total area of the wet surface?

Answer : 130 sq m (Total = $10 \times 5 + 5 \times 3 + 5 \times 3 + 10 \times 5$)

Q.53 In a larger circular pool of 20 feet diameter, two frogs start swimming from east and west ends of the pool (named A & C respectively) towards a worm on the northern edge of the pool at point B. What is the measure of the angle ABC?

Answer : 90 degrees (angle made in a semi circle is a right angle)

Q.54 A kite lands on the top of a 12 feet concrete wall. To retrieve the kite a ladder must be placed such that the foot of the ladder is 5 feet from the base of the wall. Which choice is the shortest length of the ladder that can be used?

Answer : 13 feet (the shortest length of the ladder is x. Apply Pythagoras theorem)

Q.55 What is the radius of the incircle of a triangle of side 5, 12 and 13cm?

Answer : 2 cms (the given 5, 12, 13 dimensions indicate that the triangle is a right triangle. So apply radius of incircle formula and get the answer).

Q.56 Ratio of men to women at a party was 6: 7. If there were 28 women, than calculate the total number of people at the party?

Answer : 52 (Total number of people = $28/7 \times 13$ ($13 = 6 + 7$))

Q.57 A metal made of Copper, Zinc and Lead which were in the ratio of 13: 6: 1, mass of Zinc is 90 kg. What is the mass of copper?

Answer : 195 kg (Mass of zinc = $6x = 90$, So $x = 15$; Mass of copper = $13 \times 15 = 195$)

Q.58 Present age of Sameer and Anand are in the ratio of 5: 4. Three year hence, ratio became 11: 9. What is Anand's present age?

Answer : 24 years ($S / A = 5 / 4$, After 3 years, $S / A = (5x + 3)/(4x + 3) = 11/9 \Rightarrow x = 6 \Rightarrow 4x = 24$)

Q.59 A sum amount to Rs.1352 in two years at 4% per annum compound interest. Calculate the sum?

Answer : Rs 1250

Q.60 Another question on ratio and proportion

Q.61 Another question on Simple Interest and Compound Interest

Q.62 Another question on Simple Interest

Q.63 Another question on Syllogisms

Q.64 Another question on HCF and LCM

Q.65 Another question on Missing term series (alphabetical).

LIST OF LANGUAGE QUESTIONS

1. AFTER : BEFORE

- (1) Present : Past
- (2) Successor : Predecessor
- (3) 1st : 2nd
- (4) Contemporary : History

Answer : Best answers is (2). Clear relationship of time-position.

2. ASHEN : COLOR
(1) Pallid : Complexion
(2) Insipid : Flavor
(3) Enigmatic : Puzzle
(4) Corpulent : Weight

Answer : Best answer is (1). Direct connection.

3. MIRROR : REFLECTION
(1) Water : Refraction
(2) Picture : Representation
(3) Chaos : Confusion
(4) Sound : Dispersion

Answer : Best answer is (1). Object/Material and action relationship.

4. DISTANCE : MILE
(1) Bushel : Corn
(2) Liquid : Litre
(3) Fame : T.V.
(4) Weight : Scale

Answer : Best answers (2). Unit of measurement relationship.

5. DESTITUTE : WEALTHY
(1) Scholarly : Erudite
(2) Angry : Rich
(3) Tacky : Graceful
(4) Native : Affluent

Answer : Best answer is (3). Antonymous relationship.

6. The invention of nuclear & space weapons has made war unacceptable as an _____ for achieving political ends.
(1) Design (2) Proposal (3) Instrument (4) Road

Answer : (3)

7. It is obvious that not only humans, but many different species of animals can experience pain. However, it seems highly _____ that all of these organisms experience pain the same way.
(1) Drastic (2) Possible (3) Unlikely (4) Superfluous

Answer : (3)

8. I was certain she had visited this place because it was _____ with her smells.
(1) Satiated (2) Fragrant (3) Redundant (4) Redolent

Answer : (2) or (4), most likely (4).

9. The book is highly recommended but with a _____
(1) Catalogue (2) Caveat (3) Cavort (4) Caption

Answer : (2) (it means 'caution')

- 10 - 15. Passage (Social Psychology) 500 Words – 5 Questions - moderately tough passage

Pick the word from the alternatives given that is most inappropriate in given context:

16. Deficient: - He was not hired for the job since he was found to be deficient in his understanding of the business.
(1) Lacking (2) Authentic (3) Complete (4) Adequate

Answer : (4) Remember : "most inappropriate word is asked"

17. Innocuous :- Offensive material may get through & some perfectly innocuous sites may be blocked

Options missing.

18. OBSEQUIIOUS :- His obsequious attitude was found to be offensive in a situation where the free thought & debate were encouraged
(1) Reasoned (2) Retrograde (3) Rebellious (4) Rational

Answer : (3) Because Rebellious is antonymous to Servile (Obsequious)

19. Paucity: - Given the apparent paucity of surviving live & broadcast material by the band there may not be much more to come.

Options missing.

20. Specious: - His arguments & specious comparisons are bogus & not worth seriously entertaining in my humble opinion.

Options missing.

- 21 to 25. Jumbled paragraphs : 5 Questions.

- 26 to 30. Fill in the blanks of 2 options each.

THAT'S IT!