

## TCS NQT Reasoning Problems With Solutions

### Directions for questions from 1 to 5:

Each question below consists of a word printed in capital letters, followed by four lettered words or phrases. Choose the lettered word or phrase that is most nearly opposite in meaning to the word in the capital letters.

#### Q1. PROLOGUE

- a) soliloquy
- b) trilogy
- c) analogue
- d) epilogue

#### Q2. INFLATE

- a) converge
- b) inhibit
- c) audit
- d) minimize

#### Q3. VAGUE

- a) expressive
- b) Felicitous
- c) well-defined

d) nearly perfect

#### **Q4. DISARM**

- a) hold close
- b) put on guard

- c) challenge
- d) entertain

**Q5. FOCUS**

- a) disappear
- b) disperse
- c) link
- d) activate

**Directions for questions 6 to 10:**

In each of the following question, a related pair of words or phrases is followed by four lettered pairs of words or phrases. Select the lettered pair that best expresses the relationship similar to that expressed in the original pair.

**Q6. VOTING : ROLL CALL**

- a) termination : cloture
- b) amendment : constitution
- c) majority : concession
- d) quorum : filibuster

**Q7. INSULIN : PANCREAS**

- a) bile : liver
- b) menthol : eucalyptus
- c) oxygen : heart
- d) honey : bee

**Q8. MISER : THRIFT**

- a) performer : artistry
- b) chauvinist : patriotism

- c) mimic : ridicule
- d) politician : compromise

**Q9. TALON : EAGLE**

- a) fang : snake
- b) hoof : horse
- c) claw : panther
- d) quill : porcupine

**Q10. ARTICULATE : CLEARLY**

- a) orate : strongly
- b) shout : loudly
- c) lecture : willfully
- d) malign : incoherently

**Directions for questions 11 to 15:**

Each sentence below has one or two blanks, each blank indicating that something has been omitted. Beneath the sentence are four lettered words or sets of words. Choose the word or set of words for each blank that best fits the meaning of the sentence as a whole.

**Q11. A leading chemist believes that many scientists have difficulty with stereochemistry because much of the relevant nomenclature is \_\_\_\_\_ in that it combines concepts that should be kept \_\_\_\_\_.**

- a) obscure..interrelated
- b) impressive..discrete
- c) subtle..inviolable
- d) descriptive..separate

**Q12. Many of the earliest colonial houses that are still standing have been so modified and enlarged that the \_\_\_\_\_ design is no longer \_\_\_\_\_.**

- a) pertinent..relevant
- b) initial..discriminable
- c) embellished..attractive
- d) appropriate..applicable

**Q13. Though science is often imagined as a \_\_\_\_\_ exploration of external reality, scientists are no different from anyone else: they are \_\_\_\_\_ human beings enmeshed in a web of personal and social circumstances.**  
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- a) fervent..vulnerable
- b) neutral..rational
- c) painstaking..careless
- d) disinterested..passionate

**Q14. The old man could not have been accused of \_\_\_\_\_ his affection; his conduct towards the child betrayed his \_\_\_\_\_ her.**

- a) lavishing..fondness for
- b) sparing..tolerance of
- c) rationing..antipathy for
- d) stinting..adoration of

**Q15. Among the many \_\_\_\_\_ of the project, expense cannot be numbered; the goals of the project promoters can be achieved with impressive \_\_\_\_\_.**

- a) highlights..efficiency
- b) features..savings
- c) disadvantages..innovation
- d) defects..economy

**Directions for Questions 16 to 21:**

In a telecommunication - cable assembly plant, cables are assembled by twisting plastic - coated wires together. There are wires of exactly six different solid colours - red, yellow, violet, green, white and black. Wires must be assembled into single cable according the following rules.

Each cable must contain at least three wires and wires of atleast three different colours.

At most two wires in a single cable can be black.

At most two wires in a single cable can be white.

There can be at most one wire of each of the other colours in a single cable.

If one wire is red, then one wire must be yellow.

If one wire is violet, then no wire can be green.

**Q16. If an assembled cable consists of five wires, each a different colour, it could be true that a colour not used is**

- a) Black
- b) White
- c) Green
- d) Red

**Q17. Which of the following could be the complete set of wires in an acceptable cable?**

- a) A green wire, a white wire and a violet wire
- b) A violet wire, a black wire and white wires
- c) A red wire, a black wire and a green wire
- d) A yellow wire and exactly two black wires

**Q18. The maximum number of wires that can be used in an acceptable is**

- a) 8
- b) 7
- c) 6
- d) 4

**Q19. If there is an additional requirement that violet wire must be used, if yellow is used, which of the following must be true?**

- a) No cable contains fewer than six wires
- b) No cable contains more than five wires
- c) Green is never used if red is used
- d) Red is always used if violet is used

**Q20. If exactly one black wire and exactly one white wire are used in an assembled cable, which of the following must be true?**

- a) the cable contains no more than five wires
- b) the cable contains exactly six wires
- c) the cable contains a yellow wire
- d) the cable does not contain a red wire

**Q21. If a white wire and a violet wire must be among the wires choose for a particular cable, any of the following pairs of wires could complete the cable except a ---?**

- a) black wire and a second white wire
- b) yellow wire and second white wire
- c) yellow wire and a black wire
- d) red wire and a black wire

**Directions for Question 22 to 24:**

Each Question or group of questions is based on a passage or set of conditions. In answering some of the questions, it may be useful to draw a rough diagram. For each question, select the best answer choice given.

An instrument has exactly six keys, each sounding a different note. The notes are K, L, M, N, O and P. Playing this instrument involves playing

successive chords; each consisting of three of the notes produced simultaneously;

Notes K and N can only be produced simultaneously. Notes L cannot be produced simultaneously with note O. a chord can neither be the same as the one immediately is nor be the same as the one immediately after it.

**Q22. Chord LMP could be immediately followed by each of the following chords EXCEPT**

- a) KLN
- b) KMN
- c) KNP
- d) LMP
- e) MOP

**Q23. Each of the following is an acceptable chord EXCEPT**

- a) KLP
- b) KMN
- c) KNP
- d) LMP
- e) MOP

**Q24. Which of the following pairs of notes can be played simultaneously with K to produce an acceptable chord?**

- a) LM
- b) LO
- c) LP
- d) MN
- e) OP

**Directions for questions 25 to 30:**



The manager of a radio program is going to feature six Vocalists - M, N, P, Q, R and S - on an half-an-hour radio show during the course of one week. She will feature one vocalist on the show each day from Monday through Saturday. The manager must schedule the vocalists for the show according to the following conditions.

M must be featured earlier in the week than R

P must be featured on Tuesday

Q must be featured on the day immediately before or immediately after the day on which N is featured.

**Q25. If Q is to be featured on Thursday, the latest day on which M can be featured is**

- a) Monday
- b) Tuesday
- c) Wednesday
- d) Friday

**Q26. If S is to be featured on Friday, what is the total number of acceptable schedules available to the manager?**

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

**Q27. If N is to be featured on Thursday, the earliest day on which R can be featured is**

- a) Monday
- b) Tuesday
- c) Wednesday
- d) Friday

**Q28. If S is to be featured on Thursday, which of the following is true?**

- a) M must be featured on Wednesday
- b) N must be featured on Saturday
- c) Q must be featured exactly two days after R is featured
- d) R must be featured on Wednesday

**Q29. Which of the following vocalist can be featured on Monday?**

- a) N
- b) P
- c) Q
- d) S

**Q30. If S is to be featured on Friday, M must be featured on**

- a) Monday
- b) Tuesday
- c) Wednesday
- d) Thursday