Sample Delphi TVS Reasoning Questions

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 <u>opposite</u> 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

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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

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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 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..inviolate
    d) descriptive..seperate

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.

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,

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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 s simultaneously;

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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 future 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

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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

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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

Q31. The formula h= $16t^2$ represents the distance h; in feet, that an object falls from rest after 1 seconds. In how many seconds will an object fall 400 ft?

a) 2

b) 3

c) 4

d) 5

Q32. A truck can hold 3 cubic yards of sand. If a cubic foot of a sand weighs 80 pounds, the weight of the truck load of sand in pounds is

a) 240

b) 270

c) 2160

d) 6480

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Q33. A gallon of oil is poured to a cubical container 7 inches on an edge. About how high in inches does the oil rise in the container? (I gallon = 231 cubic inches)

    a) 3.8
    b) 4.2
    c) 4.7
    d) 5.2

Q34. A cube has an edge of 4, if the cube is split into cubes with edges of 2, what is the total surface area of the smaller cubes ?

    a) 32
    b) 64
    c) 96
    d) 192

Q35. If both filling and emptying pipes of a pool are open, the pool fills in 10 hours. If just the filling pipes are open, the pool fills in 4 hours. How many hours does it take to empty the pool if just the emptying pipes are open

    a) more than 5 but less than 6
    b) exactly 5
    c) more than 6
    d) exactly 6

Q36. A ship sails 60 miles south, 90 miles east and 60 miles south again. How many miles is it from its starting point?

    a) 120
    b) 135
    c) 150
    d) 160

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Q37. The time allowed for completing a certain piece of work is 40 days. By extending the time by 10 days we find that 25 fewer man will be needed. How many men are required to finish the work in 40 days?

    a) 115
    b) 125
    c) 135
    d) 145

Q38. A man traveled along a straight road from a town P to town Q at a uniform rate of 30 miles/hour, he then returned at a uniform rate of 60 miles/hour. What was his average rate for the round trip in miles/hour?

    a) 35
    b) 38
    c) 40
    d) 45

Q39. A man walked diagonally across a square plot. What was the percent saved by not walking along the edges?

    a) 20
    b) 22
    c) 24
    d) 30

Q40. A whistle blows every 14 minutes and a bell rings every 12 minutes. If the whistle and bell both sound together at 12:00 noon, at what time, afternoon, will they first sound together again?

    a) 2:48
    b) 2:24
    c) 1:54
    d) 1:24

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Q41. Exactly how many degrees are there between the hands of a clock at 3:40 pm?

    a) 110
    b) 120
    c) 130
    d) 140