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Recruitment Processes Archives(Sample Papers)

TCS - Question paper - 02 Conducted On -- 2003

TCSMock test-2003

Quantitative Ability

1) Bhanu spends 30% of his income on petrol on scooter. $\frac{1}{4}$ of the remaining on house rent and the balance on food. If he spends Rs.300 on petrol then what is the expenditure on house rent?

- a) Rs.525
- b) Rs.1000
- c) Rs.675
- d) Rs.175

2) If the numerator of a fraction is increased by 25% and denominator decreased by 20%, the new value is $\frac{5}{4}$. What is the original value?

- a) $\frac{3}{5}$
- b) $\frac{4}{5}$
- c) $\frac{7}{8}$
- d) $\frac{3}{7}$

3) The length of a rectangle is increased by 60%. By what % would the width have to be decreased to maintain the same area?

- a) 30%
- b) 60%
- c) 75%
- d) 37.5%

4) The value of $\frac{3}{4} + \frac{5}{36} + \frac{7}{144} + \frac{17}{5184} + \frac{19}{8100}$ is

- a) 0.99
- b) 0.98
- c) 0.95
- d) None of these

5) A sporting goods store ordered an equal number of white and yellow balls. The tennis ball company delivered 45 extra white balls, making the ratio of white balls to yellow balls $\frac{1}{5} : \frac{1}{6}$. How many white tennis balls did the store originally order for?

- a) 450

- b) 270
- c) 225
- d) None of these

6) A student's grade in a course is determined by 6 quizzes and one examination. If the examination counts thrice as much as each of the quizzes, what fraction of final grade is determined by the examination?

- a) $\frac{1}{6}$
- b) $\frac{1}{5}$
- c) $\frac{1}{3}$
- d) $\frac{1}{4}$

7) A sum of money is divided among A, B and C such that for each rupee A gets, B gets 65paise and C gets 35paise. If C's share is Rs.560, the sum is ?

- a) 2400
- b) 2800
- c) 3200
- d) 3800

8) Joe's father will be twice his age 6 years from now. His mother was twice his age 2 years before. If Joe will be 24 two years from now, what is the difference between his father's and mother's age?

- a) 4
- b) 6
- c) 8
- d) 10

9) A traveler walks a certain distance. Had he gone half a kilometer an hour faster, he would have walked it in $\frac{4}{5}$ of the time, and had he gone half a kilometer an hour slower, he would have walked $2\frac{1}{2}$ hr longer. What is the distance?

- a) 10 Km
- b) 15 Km
- c) 20 Km
- d) Data Insufficient

10) Two oranges, 3 bananas and 4 apples cost Rs.15. 3 oranges, 2 bananas and 1 apple cost Rs.10. I bought 3 oranges, 3 bananas and 3 apples. How much did I pay?

- a) 10
- b) 8
- c) 15
- d) Cannot be determined

11) A report consists of 20 sheets each of 55 lines and each such line consists of 65 characters. This report is retyped into sheets each of 65 lines such that each line consists of 70 characters. The % reduction in the number of sheets is closest to

- a) 20
- b) 5
- c) 30
- d) 35

12) A ship leaves on a long voyage. When it is 18 miles from the shore, a seaplane, whose speed is 10 times that of the ship is sent to deliver mail. How far from the shore does the seaplane catch up with the ship?

- a) 24 miles
- b) 25 miles
- c) 22 miles
- d) 20 miles

13) Anand finishes a work in 7 days, Bittu finishes the same job in 8 days and Chandu in 6 days. They take turns to finish the work. Anand on the first day, Bittu on the second and Chandu on the third day and then Anand again and so on. On which day will the work get over?

- a) 3rd
- b) 6th
- c) 9th
- d) 7th

14) 3 men finish painting a wall in 8 days. Four boys do the same job in 7 days. In how many days will 2 men and 2 boys working together paint two such walls of the same size?

- a) $6\frac{6}{13}$ days
- b) $3\frac{3}{13}$ days
- c) $9\frac{2}{5}$ days

d) 12 12/13 days

15) There are 5 distinct pairs of white socks and 5 pairs of black socks in a cupboard. In the dark, how many socks do I have to pull out to ensure that I have at least 1 correct pair of white socks?

- a) 3
- b) 11
- c) 12
- d) 16

16) In a circular race track of length 100 m, three persons A, B and C start together. A and B start in the same direction at speeds of 10 m/s and 8 m/s respectively. While C runs in the opposite at 15 m/s. When will all the three meet for the first time on the after the start?

- a) After 4 s
- b) After 50 s
- c) After 100 s
- d) After 200 s

17) If the distance traveled (s) in time (t) by a particle is given by the formula $s = 1 + 2t + 3t^2 + 4t^3$, then what is the distance travelled in the 4th second of its motion?

- a) 141m
- b) 171m
- c) 243m
- d) 313m

18) There is a circular pizza with negligible thickness that is cut into 'x' pieces by 4 straight line cuts. What is the maximum and minimum value of 'x' respectively?

- a) 12,6
- b) 11,6
- c) 12,5
- d) 11,5

19) When $\frac{3}{4}$ of a unit's digit is added to the ten's digit of a two number, the sum of the digits becomes 10. If $\frac{1}{4}$ of the ten's digit added to the unit's digit, then the sum of the digits is 1 less than the previous. Find the number.

- a) 94
- b) 84
- c) 48
- d) 88

20) LCM of x and y is 36 and HCF of x and y is 4. If $x = 4$ then which of the following is definitely not true?

- a) Y is divisible by 3
- b) Y is divisible by 6
- c) Y is divisible by 9
- d) $X+Y$ is divisible by

21) Amal bought 5 pens, 7 pencils and 4 erasers. Rajan bought 6 pens, 8 erasers and 14 pencils for an amount which was half more than what Amal had paid. What % of the total amount paid by Amal was paid for pens?

- a) 37.5%
- b) 62.5%
- c) 50%
- d) None of these

22) A non stop bus to Amritsar overtakes an auto also moving towards Amritsar at 10 am. The bus reaches Amritsar at 12.30 pm and starts on the return journey after 1 hr. On the way back it meets the auto at 2 pm. At what time the auto will reach Amritsar?

- a) 2.30pm
- b) 3.00pm
- c) 3.15pm
- d) 3.30pm

23) The total expense of a boarding house are partly fixed and partly variable with the number of boarders. The charge is Rs.70 per head when there are 25 boarders and Rs.60 when there are 50 boarders. Find the charge per head when there are 100 boarders.

- a) 65
- b) 55
- c) 50
- d) 45

24) How many positive integer solutions does the equation $2x+3y = 100$ have?

- a) 50
- b) 33
- c) 16
- d) 35

25) A person had to multiply two numbers. Instead of multiplying by 35, he multiplied by 53 and the product went up by 540. What was the raised product?

- a) 780
- b) 1040
- c) 1590
- d) 1720

VERBAL ABILITY

Directions (26-35): Choose the lettered word or phrase that is most nearly opposite in meaning to the word in capital letters

26) IMPROMPTU

- a) Carefully rehearsed
- b) Widely recognized
- c) Narrowly focussed
- d) Purposefully vague

27) BALLOON

- a) Regain completely
- b) Decrease slowly
- c) Respond rapidly
- d) Request humbly

28) AVID

- a) Independent
- b) Inquisitive
- c) Swift
- d) Indifferent

29)MOROSE

- a) Fast talking
- b) Quick witted
- c)Lighthearted
- d) Casual

30)ANOMALY

- a)Predicted occurrence
- b)Temporary solution
- c) Easy problem
- d)Continuous process

31)NEOLOGISM

- a)Syllogism
- b)Idealism
- c)archaism
- d)ostracism

32)RAREFY

- a)Condense
- b)Conceive
- c)Consign
- d)Conduct

33)CAUSTIC

- a)Nonflammable
- b)Anesthetic
- c)Antiseptic
- d)Innocuous

34)SOLVENT

- a)Catalyst
- b)Detergent
- c)Reactant
- d)Precipitant

35)ESTIMABLE

- a)Recalcitrant
- b)Mendacious
- c)Infamous
- d)Obstinate

Directions (36-45): Each question has four items. Select the item that does not belong to this group

36.

- (a)Spiritual
- (b)Devout
- (c)Pious
- (d)Atheist

37.

- (a)Prohibit
- (b)Warrant
- (c)Permit
- (d)Allow

38.

- (a)Extrovert
- (b)Reticent
- (c)Amiable
- (d)Gregarious

39.

- (a)Repose
- (b)Doze
- (c)Slumber
- (d)Agitation

40.

- (a)Jeer
- (b)Scoff
- (c)Sweep
- (d)Deride

41.

- (a)Steadfast
- (b)Staunch
- (c)Unswerving
- (d)Treacherous

42.

- (a) Moan
- (b) Beat
- (c) Tremble
- (d) Cry

43.

- (a) Astronaut
- (b) Galaxy
- (c) Comet
- (d) Argot

44.

- (a) Collage
- (b) Pieces
- (c) Art form
- (d) Presentation

45.

- (a) Pride
- (b) Cub
- (c) Roar
- (d) Whine

Directions (46-55): Choose the lettered word or phrase that is most nearly similar in meaning to the word in capital letters.

46. DISCRETION

- a. prudence
- b. consistency
- c. precipice
- d. disturbance

47. ORDAIN

- a. arrange
- b. command
- c. contribute
- d. establish

48. PENITENCE

- a. liking

- b. insightful
- c. compunction
- d. penetrable

49. INCENTIVE

- a. reflex
- b. amplitude
- c. inflection
- d. provocation

50.OVULATE

- a. penury
- b. immunize
- c. fertilize
- d. reproduce

51.CAJOLE

- a. coax
- b. motivate
- c. profound
- d. mollify

52. TO HEAP

- a. to pile
- b. to forbid
- c. to proceed
- d. to share

53.RAPT

- a. lively
- b. concealed
- c. engrossed
- d. prototype

54. TO MERIT

- a. to embrace

- b. to devote
- c. to deserve
- d. to combine

55. ERRATIC

- a. unromantic
- b. free
- c. unknown
- d. steady

CRITICAL REASONING

Directions (56-84): In the following set of paragraphs, each of the questions following the paragraph has the same answer choice i.e.

- a) Yes
- b) No
- c) Cannot Say

Mark the appropriate choice for each of the questions.

Passage A: My father has no brothers. He has three sisters who has two children each.

- 56. My grandfather has two sons.
- 57. Three of my aunts have two sons
- 58. My father is only child to his father
- 59. I have six cousins from my mother side
- 60. I have one uncle

Passage B: Ether injected into gallbladder to dissolve cholesterol based gallstones. This type one-day treatment is enough for gallstones not for calcium stones. This method is alternative to surgery for millions of people who are suffering from this disease.

- 61. Calcium stones can be cured in one day
- 62. Hundreds of people contains calcium stones
- 63. Surgery is the only treatment to calcium stones
- 64. Ether will be injected into the gallbladder to cure the cholesterol-based gallstones

PASSAGE C: Hacking is illegal entry into another computer. This happens mostly because of lack of knowledge of computer networking. With network one machine can access to another machine. Hacking go about without knowing that each network is accredited to use network facility.

- 65. Hackers never break the code of the company that they work for
- 66. Hacking is the only vulnerability of the computers for the usage of the data

67. Hacking is done mostly due to the lack of computer knowledge

PASSAGE D: Alpine tunnels are closed tunnels. In the past 30 yrs not even a single accident has been recorded for there is one accident in the rail road system. Even in case of a fire accident it is possible to shift the passengers into adjacent wagons and even the live fire can be detected and extinguished within the duration of 30 min.

68. No accident can occur in the closed tunnels

69. Fire is allowed to live for 30 min

70. All the care that travel in the tunnels will be carried by rail shutters.

PASSAGE E: In the past helicopters were forced to ground or crash because of the formation of the ice on the rotors and engines. A new electronic device has been developed which can detect the water content in the atmosphere and warns the pilot if the temperature is below freezing temperature about the formation of the ice on the rotors and wings.

71. The electronic device can avoid formation of the ice on the wings

72. There will be the malfunction of rotor & engine because of formation of ice

73. The helicopters were to be crashed or grounded

74. There is only one device that warn about the formation of ice

PASSAGE F: In the survey conducted in Mumbai out of 63 newly married housewives not a single housewife felt that the husbands should take equal part in the household work as they felt they lose their power over their husbands. In spite of their careers they opt to do the kitchen work themselves after coming back to home. The wives get half as much leisure time as the husbands get at the weekends.

75. Housewives want the husbands to take part equally in the household

76. Wives have half as much leisure time as the husbands have

77. 39% of the men will work equally in the house in cleaning and washing

PASSAGE G: Copernicus is the intelligent. In the days of Copernicus the transport and technology development was less & it took place weeks to communicate a message at that time, wherein we can send it through satellite within no time. Even with this fast developments it has become difficult to understand each other.

78. People were not intelligent during Copernicus days

79. Transport facilities are very much improved in now a days

80. Even with the fast developments of the technology we can't live happily.

81. We can understand the people very much with the development of communication

PASSAGE H: Senior managers warned the workers that because of the introduction

on of Japanese industry in the car market there is the threat to the workers . They also said that there would be the reduction in the purchase of the sales of car in public. The interest rates of the car will be increased with the loss in demand.

82. Japanese workers are taking over the jobs of Indian industry.

83. Managers said car interests would go down after seeing the raise in interest rates.

84. Japanese investments are ceasing to end in the car industry.

85. People are very interested to buy the cars.

Key to Mock Test 2

1. d
2. b
3. d
4. a
5. c
6. c
7. c
8. c
9. b
10. c
11. a
12. d
13. d
14. d
15. c
16. c
17. b
18. d
19. c
20. d
21. b
22. b
23. b
24. c
25. c
26. a
27. b
28. d
29. c

- 30. a
- 31. c
- 32. a
- 33. d
- 34. d
- 35. c
- 36. d
- 37. b
- 38. b
- 39. d
- 40. c
- 41. d
- 42. b
- 43. d
- 44. b
- 45. d
- 46. a
- 47. b
- 48. c
- 49. d
- 50. c
- 51. a
- 52. a
- 53. c
- 54. c
- 55. c
- 56. c
- 57. c
- 58. b
- 59. c
- 60. c
- 61. b
- 62. c
- 63. a
- 64. a
- 65. c
- 66. b
- 67. b
- 68. a
- 69. b
- 70. c
- 71. b

- 72. a
- 73. a
- 74. a
- 75. b
- 76. b
- 77. b
- 78. b
- 79. c
- 80. c
- 81. b
- 82. b
- 83. a
- 84. b
- 85. b