

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, DESIGN AND
MANUFACTURING KANCHEEPURAM

QUESTION PAPER (LEVEL 1 OBJECTIVE TEST)

I<</CSE/
Design.

FOR THE POST OF

JUNIOR TECHNICIAN (PAY LEVEL-03)

Total Marks: 100

Duration: 02 Hrs

Note: Mark the correct answer in the OMR sheet. The correct answer will carry ONE mark each and any wrong answer will have negative mark of 0.25 each.

1.	Which of the following is a prime number?
a)	517
b)	559
c)	571
d)	533
2.	Find the sum of first 90 even natural numbers.
a)	8180
b)	8190
c)	8100
d)	8110
3.	Find the sum two numbers, whose product is 200 and difference is minimum.
a)	30
b)	27
c)	35
d)	33
4.	Find the ten's digit in the expression $65^2 - 55^2$?
a)	2
b)	6
c)	5
d)	0
5.	A number when divided by 91 leaves a remainder 65. If the same number is divided by 13, find the remainder.
a)	7
b)	0
c)	5
d)	12

6. B is twice as old as A. C is twice as old as B. If the difference between ages of A and C is 12 years, find the age of b.

- a) 8 years
- b) 7 years
- c) 6 years
- d) 5 years

7. Arun and Varun each has some money, If Arun gives Rs.10 to Varun, then Varun will have twice the money left with Arun. But, if Varun gives Rs.10 to Arun, then they both have equal amount of money. How much money does Arun have?

- a) Rs.50
- b) Rs.60
- c) Rs.70
- d) Rs.40

8. The cost of 7 pens and 5 pencils is Rs.95. One half of the cost of one pen is equal to the cost of one pencil. What is the total cost of one pen and one pencil?

- a) Rs.12
- b) Rs.15
- c) Rs.18
- d) Rs.16

9. 20% of a number is 12 find 35% of the same number.

- a) 21
- b) 18
- c) 19
- d) 17

10. What is the value of $451/10000$ in decimal fraction?

- a) 0.0451
- b) 0.451
- c) 0.0541
- d) 0.00451

11. 3 pipes A, B and C can fill a tank in 30 minutes, 40 minutes, and 120 minutes, respectively. If all the pipes are opened together, how much time is required to fill the tank?

- a) 12 minutes
- b) 15 minutes
- c) 18 minutes
- d) 20 minutes

12. 43 men can do a work in 89 days. Find the amount of work done by 90 men in 55 days.

- a) 129%
- b) 130%
- c) 131%
- d) 132%

13. A man travelled 30% of his journey at a speed of 85 kmph and the rest of his journey at a speed of 33 kmph. Find his average speed throughout the journey.

- a) 42.6 kmph
- b) 44.6 kmph
- c) 46.6 kmph
- d) 48.6 kmph

14. The ratio of speeds of $p : q : r$ is $5 : 4 : 3$. Find the ratio of time taken by p , q and r to cover j km.

- a) $5 : 4 : 3$
- b) $4 : 3 : 2$
- c) $12 : 15 : 20$
- d) $20 : 15 : 12$

15. A man invested x rupees for 5 years at a rate of 2.5% simple interest. If he received an interest of 125000 after 5 years, find the amount he invested.

- a) 10,00,000 rupees
- b) 12,25,000 rupees
- c) 50,00,000 rupees
- d) 1,00,00,000 rupees

16. In a group of 10 girls 5 have an average height of 5.2 feet. Rest of the 5 girls have an average height of 1.7 metres. Find the average height of the group in feet. (1 m = 3.281 feet).

- a) 5.1
- b) 5.2
- c) 5.3
- d) 5.4

17. A train with a speed of 120kmph passes a man in 15 seconds. Find the length of the train.

- a) 200m
- b) 300m
- c) 400m
- d) 500m

18. Find the profit percent earned after selling an article at a doubled rate for half quantity.

- a) 200%
- b) 300%

c) 400%
d) 450%

19. If $\sin x = 1/2$, then what will be the value of x in degree?

a) 30
b) 60
c) 45
d) 37

20. If triangle XYZ is right angled at Y, then the value of $\cos(X + Z)$ will be?

a) 0
b) 1/2
c) 1
d) 1/3

(Question No.21 to 25) Study the following table and answer the questions based on it.

Expenditures of a Company (in Lakh Rupees) per Annum Over the given Years.

Year	Item of Expenditure				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

21. What is the average amount of interest per year which the company had to pay during this period?

a) Rs.32.43 lakhs
b) Rs.33.72 lakhs
c) Rs.34.18 lakhs
d) Rs.36.66 lakhs

22. The total amount of bonus paid by the company during the given period is approximately what percent of the total amount of salary paid during this period?

a) 0.1%
b) 0.5%
c) 1%
d) 1.25%

23. Total expenditure on all these items in 1998 was approximately what percent of the total expenditure in 2002?

- a) 62%
- b) 66%
- c) 69%
- d) 71%

24. The total expenditure of the company over these items during the year 2000 is?

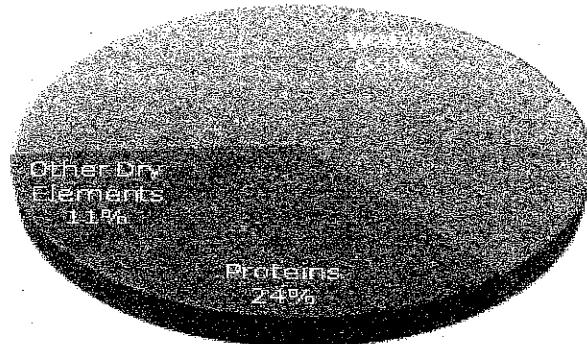
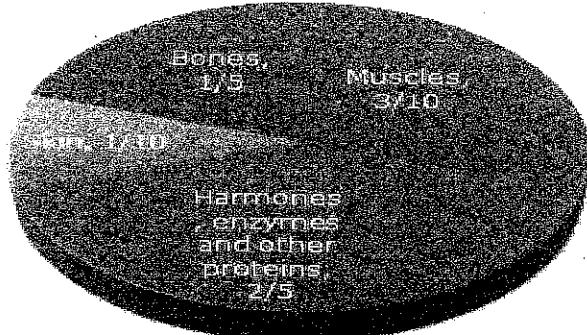
- a) Rs. 544.44 lakhs
- b) Rs. 501.11 lakhs
- c) Rs. 446.46 lakhs
- d) Rs. 478.87 lakhs

25. The ratio between the total expenditure on Taxes for all the years and the total expenditure on Fuel and Transport for all the years respectively is approximately?

- a) 4:7
- b) 10:13
- c) 15:18
- d) 5:8

(Question No.26 to 28) The following pie chart give the information about the distribution of weight in the human body according to different kinds of components. Study the pie charts and answer the question.

Distribution of Weight in Human Body



26. What percentage of proteins of the human body is equivalent to the weight of its skin ?

- a) 41.66 %
- b) 43.33 %
- c) 44.44 %
- d) Cannot be determined

27. How much of the human body is neither made of bones or skin ?

- a) 40%
- b) 50 %
- c) 60 %
- d) 70 %

28. What is the ratio of the distribution of proteins in the muscles to that of the distribution of proteins in the bones ?

- a) 2:1
- b) 2:3
- c) 3:2
- d) Cannot be determined

29. Find the odd man out.

3, 5, 11, 14, 17, 21

- a) 21
- b) 17
- c) 14
- d) 3

30. Find the odd man out.

8, 27, 64, 100, 125, 216, 343

- a) 27
- b) 100
- c) 125
- d) 343

31. Look at this series: 2, 1, $(1/2)$, $(1/4)$, ... What number should come next?

- a) $(1/3)$
- b) $(1/8)$
- c) $(2/8)$
- d) $(1/16)$

32. Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next?

- a) 7
- b) 10

- c) 12
- d) 13

33. Which word does NOT belong with the others?

- a) parsley
- b) basil
- c) dill
- d) mayonnaise

34. Which word does NOT belong with the others?

- a) inch
- b) ounce
- c) centimeter
- d) yard

35. Which word does NOT belong with the others?

- a) wing
- b) fin
- c) beak
- d) rudder

36. Which word does NOT belong with the others?

- a) core
- b) seeds
- c) pulp
- d) slice

37. Which word does NOT belong with the others?

- a) peninsula
- b) island
- c) bay
- d) cape

38. Which word does NOT belong with the others?

- a) fair
- b) just
- c) equitable
- d) favorable

39. Odometer is to mileage as compass is to

- a) speed
- b) hiking
- c) needle

d) direction

40. Marathon is to race as hibernation is to

- a) winter
- b) bear
- c) dream
- d) sleep

41. Here are some words translated from an artificial language.

gorblflur means fan belt

pixngorbl means ceiling fan

arthtusl means tile roof

Which word could mean "ceiling tile"?

- a) gorbltusl
- b) flurgorbl
- c) arthflur
- d) pixnarth

42. In a certain code "SAND" is written as "UCPF". How is "STONE" is written in that code?

- a) SRLFE
- b) UNSOP
- c) UVQPG
- d) UDLPQ

43. In a certain code "LION" is written as "MNHK". How is "MONKEY" is written in that code?

- a) BWKXSU
- b) XDJMNL
- c) FSHXIL
- d) GQWPJS

44. In a certain code "CLOUD" is written as "ZILRA". How "MEMORY" is written in that code?

- a) JBJLOV
- b) SPURGV
- c) NJVGAR
- d) EOQGAV

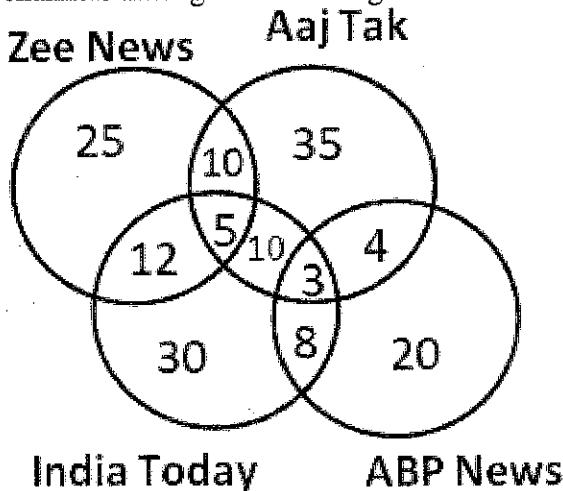
45. DEFG : NOPQ :: KLMN : ?

- a) ABCD
- b) UVWX
- c) WXYZ
- d) GHJK

46. K is the son of A's mother's sister. Q is daughter of D, who is the father of G and grandfather of A. P is the daughter of H who is grandmother of K. D is husband of H and G is husband of L. How is P related to G?

- a) Mother
- b) Sister
- c) Daughter
- d) Cousin

47. The following diagram shows the number of people watching news channels Aaj Tak, Zee News, ABP News and India Today. If the total number of people is 400, then what is the percentage of people watching only two of the channels among the following?



- a) 8
- b) 11
- c) 9.25
- d) 13

48. Which of the following diagram correctly represents the relationship among Teacher, Men and Author?

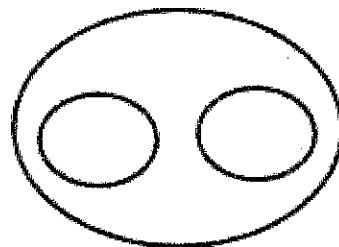
- a)

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graph TD; T1((Teacher)) --- T2((Men)); T1 --- T3((Author)); T2 --- T3
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- b)

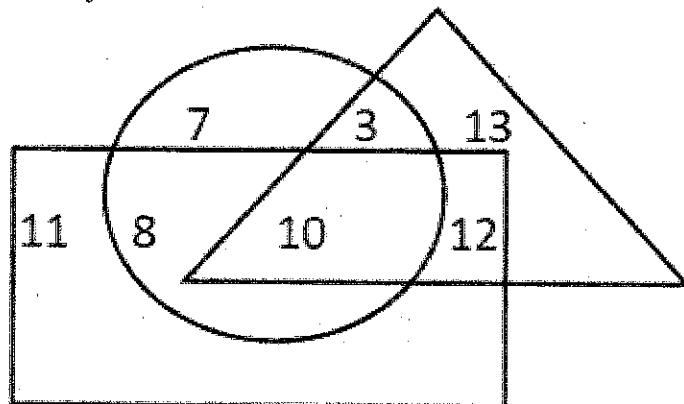
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graph TD; T1((Teacher)) --- T2((Men)); T1 --- T3((Author)); T2 --- T3
```
- c)

```
graph TD; T1((Teacher)) --- T2((Men)); T1 --- T3((Author)); T2 --- T3
```

d)



49. If triangle represents poor people, rectangle represents educated people and circle represent jobs. Then which number represents uneducated poor people who are in jobs?



- a) 10
- b) 12
- c) 8
- d) 3

50. Choose the figure which is different from the rest?



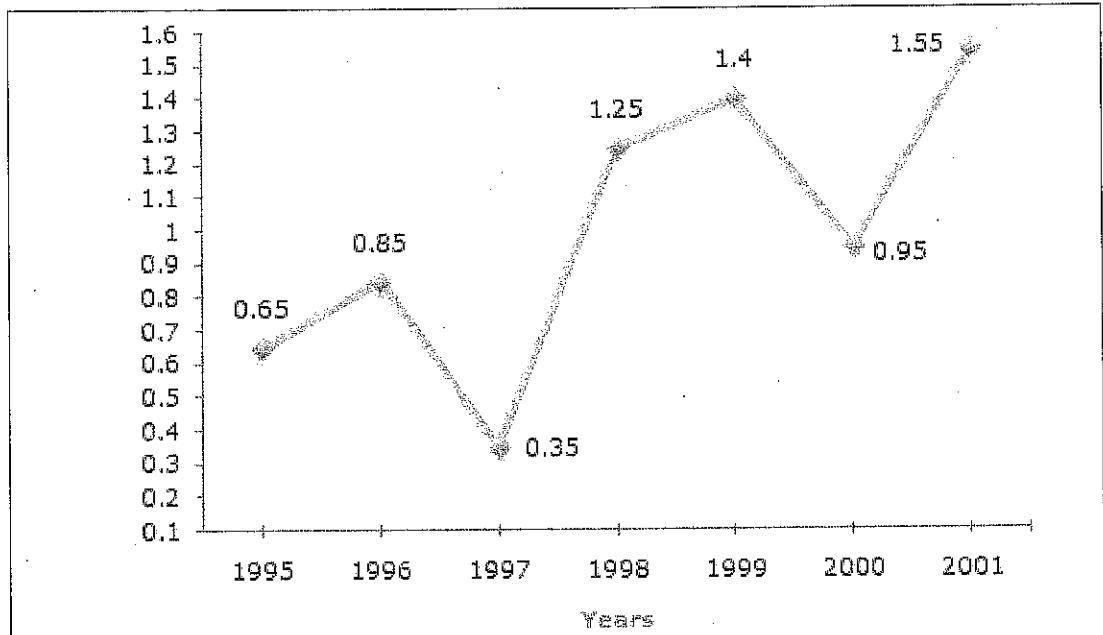
- (A)
- (B)
- (C)
- (D)

- a) Figure A
- b) Figure B
- c) Figure C
- d) Figure D

(Question No.51 to 55)

The following line graph gives the ratio of the amounts of imports by a company to the amount of exports from that company over the period from 1995 to 2001.

Ratio of Value of Imports to Exports by a Company Over the Years.



51. If the imports in 1998 was Rs. 250 crores and the total exports in the years 1998 and 1999 together was Rs. 500 crores, then the imports in 1999 was ?

- a) Rs. 250 crores
- b) Rs. 300 crores
- c) Rs. 357 crores
- d) Rs. 420 crores

52. The imports were minimum proportionate to the exports of the company in the year ?

- a) 1995
- b) 1996
- c) 1997
- d) 2000

53. What was the percentage increase in imports from 1997 to 1998 ?

- a) 72
- b) 56
- c) 28
- d) Data inadequate

54. If the imports of the company in 1996 was Rs. 272 crores, the exports from the company in 1996 was ?

- a) Rs. 370 crores
- b) Rs. 320 crores
- c) Rs. 280 crores
- d) Rs. 275 crores
- e)

55. In how many of the given years were the exports more than the imports ?

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

56. A train always has

- a) Rails
- b) Driver
- c) Guard
- d) Engine

57. Which one of the following is always found in 'Bravery'?

- a) Experience
- b) Power
- c) Courage
- d) Knowledge

58. A song always has

- a) Word
- b) Chorus
- c) Musician
- d) Tymbal

59. Yesterday I saw an ice cube which had already melted due to heat of a nearby furnace.

- a) Always
- b) Never
- c) Often
- d) Sometimes

60. What is found necessarily in milk?

- a) Cream
- b) Curd
- c) Water
- d) Whiteness

61. If a situation is 'a storm in a teacup', it refers to:

- a) A severe weather event.
- b) A big fuss over a trivial matter.
- c) A quiet, peaceful moment.
- d) A delicious drink.

62. A person who believes in and practices the doctrine of human sacrifice for the sake of religion.

- a) Anarchist
- b) Fanatic
- c) Zealot
- d) Thug

63. The scientific study of ancient cultures through the examination of their material remains.

- a) Anthropology
- b) Paleontology
- c) Archaeology
- d) Geology

64. A remedy for all diseases.

- a) Antidote
- b) Panacea
- c) Elixir
- d) Cure-all

65. Convert the following into Indirect Speech: She said, "I am going to the library now."

- a) She said that she was going to the library then.
- b) She said that she is going to the library now.
- c) She said that I am going to the library then.
- d) She says that she was going to the library then.

66. Convert the following into Indirect Speech: He asked, "Did you finish your homework?"

- a) He asked if I finished my homework.
- b) He asked if I had finished my homework.
- c) He asked if you had finished your homework.
- d) He asked if I have finished my homework.

67. Choose the word most similar in meaning to: 'OSTENTATIOUS'

- a) Modest
- b) Showy
- c) Humble
- d) Understated

68. Which of the following words means 'excessive pride or self-confidence'?

- a) Humility
- b) Modesty
- c) Hubris

d) Diffidence

69. She is highly skilled _____ playing the piano.

- a) at
- b) in
- c) on
- d) for

70. I prefer coffee _____ tea.

- a) than
- b) over
- c) to
- d) against

(Questions 71 to 75) Read the following passage carefully and answer the questions that follow:

Climate change is no longer a distant threat; it is a present reality shaping our world. Rising global temperatures are leading to unprecedented extreme weather events, from devastating floods to prolonged droughts and intense heatwaves. These phenomena not only disrupt ecosystems but also pose significant threats to human societies, impacting agriculture, water resources, and public health. The melting of glaciers and ice caps contributes to sea-level rise, endangering coastal communities and low-lying island nations. Addressing climate change requires a global, concerted effort involving emission reductions, investment in renewable energy, and adaptation strategies. While international agreements like the Paris Accord aim to mitigate these effects, their success hinges on the commitment and actions of individual nations and, indeed, every individual. The transition to a sustainable future demands innovation, political will, and a fundamental shift in our relationship with the environment.

71. What is the primary focus of the passage?

- a) The history of climate change policies.
- b) The effects and necessary actions regarding climate change.
- c) The economic impact of renewable energy.
- d) The geographical distribution of extreme weather events.

72. According to the passage, which of the following is NOT a consequence of rising global temperatures?

- a) Devastating floods.
- b) Improved agricultural yields.
- c) Melting glaciers.
- d) Intense heatwaves.

73. What contributes to sea-level rise according to the passage?

- a) Increased rainfall.
- b) Expansion of ocean water.
- c) Melting of glaciers and ice caps.
- d) Volcanic activity.

74. What does the passage suggest about the success of international agreements like the Paris Accord?

- a) They are guaranteed to succeed regardless of individual actions.
- b) Their success depends solely on technological advancements.
- c) Their success relies on the commitment and actions of nations and individuals.
- d) They are ineffective in addressing climate change.

75. The word 'mitigate' in the passage is closest in meaning to:

- a) Exacerbate
- b) Worsen
- c) Alleviate
- d) Create

(Questions 76 to 80) Read the following passage and choose the most appropriate word for each blank from the given options.

Technology has profoundly (76) _____ society, revolutionizing the way we live, work, and interact. From the invention of the wheel to the digital age, each technological leap has brought (77) _____ significant changes. The internet, in particular, has (78) _____ communication barriers, making the world a truly global village. However, this rapid advancement also (79) _____ new challenges, such as concerns over privacy and the spread of misinformation. It is crucial, therefore, to embrace technology (80) _____ and ethically, ensuring its benefits are shared by all.

76. The most appropriate word is-

- a) affected
- b) effected
- c) influenced
- d) impacted

77. The most appropriate word is-

- a) with
- b) about
- c) forth
- d) in

78. The most appropriate word is-

- a) erected
- b) collapsed
- c) broken
- d) dismantled

79. The most appropriate word is-

- a) creates
- b) poses
- c) generates
- d) produces

80. The most appropriate word is-

- a) judiciously
- b) recklessly
- c) casually
- d) haphazardly

81. Brass gets discoloured in air because of the presence of which of the following gases in air?

- a) Oxygen
- b) Hydrogen sulphide
- c) Carbon dioxide
- d) Nitrogen

82. Reading of a barometer going down is an indication of

- a) snow
- b) storm
- c) intense heat
- d) rainfall

83. Fathom is the unit of

- a) sound
- b) depth
- c) frequency
- d) distance

84. Which of the following is a non metal that remains liquid at room temperature?

- a) Phosphorous
- b) Bromine
- c) Chlorine
- d) Helium

85. In vulcanisation, natural rubber is heated with

- a) Carbon
- b) Silicon
- c) Sulphur
- d) Phosphorous

86. What is part of a database that holds only one type of information?

- a) Report
- b) Field
- c) Record
- d) File

87. 'OS' computer abbreviation usually means ?

- a) Order of Significance
- b) Open Software
- c) Operating System
- d) Optical Sensor

88. What's a web browser?

- a) A kind of spider
- b) A computer that stores WWW files
- c) A person who likes to look at websites
- d) A software program that allows you to access sites on the World Wide Web

89. How many bits is a byte?

- a) 4
- b) 8
- c) 16
- d) 32

90. Which device can be used to store charge?

- a) Transistor
- b) Diode
- c) Capacitor
- d) Resistor

91. Which country appointed "Diella," the world's first AI cabinet minister?

- a) Greece
- b) Italy
- c) France
- d) Albania

92. Which organization received the SSLV production technology from ISRO under its 100th technology transfer agreement?

- a) HAL
- b) NSIL
- c) IN-SPACE
- d) DRDO

93. Which institution is pioneering AI tools for Indian languages and cultural heritage under the Bhashini project?

- a) IIT Kanpur
- b) IIT Madras
- c) IIT Bombay
- d) IIT Jodhpur

94. What is the name of India's first fully indigenous 32-bit microprocessor developed for space missions?

- a) Vikram-3201
- b) Shakti-2100
- c) Bharat-Chip X
- d) Aryabhata-2001

95. What is the name of India's first AI-powered tribal language translator launched by the Ministry of Tribal Affairs?

- a) Bhasha Setu
- b) Vaani Shakti
- c) Adi Vaani
- d) Janjatiya Bhasha Mitra

96. Which project was jointly inaugurated by PM Narendra Modi and Singapore PM Lawrence Wong on September 4, 2025?

- a) Jawaharlal Nehru Port Trust Expansion
- b) PSA Mumbai Terminal Phase-II
- c) Chennai Port Modernization Project
- d) Mundra Port Expansion Project

97. Which state will host the Filmfare Awards 2025 for the second consecutive year?

- a) Maharashtra
- b) Rajasthan
- c) Uttar Pradesh
- d) Gujarat

98. How long has the Election Commission pledged to take to resolve the issue of duplicate voter ID numbers?

- a) 1 month
- b) 6 months
- c) 1 year

d) 3 months

99. Which country conferred the 'Order of the Druk Gyalpo' award to Indian Prime Minister Narendra Modi?

- a) Bhutan
- b) Nepal
- c) Maldives
- d) Sri Lanka

100. Which automaker retained its position as the world's top-selling automaker in 2023?

- a) Toyota
- b) Honda
- c) Ford
- d) Volkswagen

