Arrange the word MAIURAD to form a city. What would be the starting character of the city?

In a kingdom far far away, the King decided that the time has come to find a husband for his

princess daughter. The King wanted to find a worthy lad for his princess, so he promised to give

his daughter away to the first young (or old) man who would solve the puzzle that has stumped the

best of his court mathematicians for years. The puzzle is very simple: in a palace, there are 25

rooms arranged in a square--5 rows of rooms with 5 rooms in each row. In every room there is a

light switch which not only switches on/off the light in that room, but also switches the lights in

the adjacent rooms--the room to the right, to the left, the room above and the room below.

Initially, all of the lights are turned off. The goal is to turn the lights on in every room of the

palace.

1) How many children did not try any of the rides. ?

A) 5 B) 10 C) 15 D) 20

Ans. 15.

20 kids * 3 rides = Rs. 60

(55-20=)35 kids * 2 rides = Rs. 70

60 + 70 = Rs. 130

So, Rs. (145 – 130 =) 15 are left for the other (85 – 55 =) 30 kids . so only 15 of them can take

a ride and rest 15 will be left out.

145 rides were taken. 20 of them took all three, i.e. Rs. 60 were spent, so 145-60= Rs. 85 are left

for the others. Total kids were 85, so rest were 65. out of these 65,

2) How many children took exactly one ride?

A) 5 B) 10 C) 15 D) 20

Ans. 15

3) Four cities are connected by a road network as shown in the figure. In how many ways can you

start from any city and come back to it without travelling on the same road more than once ?

A) 8

B) 12

C) 16

D) 20

Ans. 12.

Consider the top city, the following are the 3 routes possible, starting from the leftmost edge.

Since there are 3 edges emanating from each city and the figure is perfectly symmetrical, these 3

routes are possible from each edge, hence for any given city, the total number of routes = 4 * 3 =

12.

Directions for question nos 4-5:

A, B, and C are three numbers, Let

@(A, B)= Average of A and B

*(A, B)=Product of A and B

/(A, B)=A divided by B

4) If A=2 and B=4 the value of @(/ (*(A,B),B),A) would be

A) 2

B) 4

C) 6

D) 16

Ans. 2

5) Sum of A and B is given by

A) *(@(A, B), 2)

B) /(@(A,B),2)

C) @(*(A,B),2)

D) @(/(A,B),2

Ans. A.

6) Let x<0, 01 which of the following is false:

A) (x^2-z^2) has to be positive.

B) yz can be less than one.

C) xy can never be zero

D) (y^2-z^2) is always negative

Ans. A.

7) If A's income is 25% less than B's ,by what % is B's income greater than that of A ?

A) 35%

B) 25%

C) 30%

D) None of these

Ans. D.

Directions for question nos 8-12: A professor keeps data on students tabulated by the sex and the

performance of the student. Data is kept in a computer disk, but unfortunately some of it is lost

because of a virus. Only the following could be recovered:

Performance Total

Average Good Excellent

Male 10

Female 32

Total 30

Panic buttons were pressed but to no avail. An expert committee was formed,which decided that the

following facts were self evident:

a) Half the students were either good or excellent.

b) 40% of the students were female

c) One third of male students were average

8) How many students were both female and excellent?

A) 0

B) 8

C) 16

D) 32

Ans. A

Performance Total

Average Good Excellent

Male 10 48

Female 32

Total 30 80

Panic buttons were pressed but to no avail. An expert committee was formed,which decided that the

following facts were self evident:

d) Half the students were either good or excellent. (implies the total of good and excellent is 40,

i.e., hall of 80)

e) 40% of the students were female (this implies that 32 is 40% of the total students, hence total

students are 80, this implies that males are 48, calculate the rest yourself)

f) One third of male students were average

9) What proportion of good students are male?

A) 0

B) 0.73

C) 0.4

D) 1.0

Ans. B.

10) What proportion of female students are good?

A) 0

B) 0.25

C) 0.50

D) 1.0

Ans. B

11) How many students are both male and good?

A) 10

B) 16

C) 22

D) 48

Ans. C

12) Among average students, what is the ratio of male to female?

A) 1:2

B) 2:1

C) 3:2

D) 2:3

Ans. D

ANALYTICAL

13) Which of the following can act as a interpreter when Mr.Raju and Mr.Balu wish to confer?

A) Mr.Ram Only

B) Mr.Sham Only.

C) Either Mr.Ram or Mr.Sham

D) Any of the other three executives.

Ans. D

14) Besides Mr. Lalu, which of the following can converse with Mr.Balu without an Interpreter?

A) Mr.Ram Only

B) Mr.Sham only

C) Mr.Ram and Mr.Sham

D) Mr.Raju Only

Ans. C

15) Which of the following cannot converse without interpreter?

A) Mr. Sham and Mr.Lalu.

B) Mr. Ram and Mr. Sham

C) Mr. Ram and Mr. Raju

D) Mr. Sham and Mr. Balu

Ans. A

16) If a sixth executive is brought in, for him to be understood by the maximum number of original

five, he should be fluent in?

A) English and Telugu

B) Hindi and Tamil

C) Telugu and Hindi

D) Hindi and English

Ans. B

17) Of the languages spoken the most common languages are

A) English and Tamil

B) English and Hindi

C) English and Telugu

D) Hindi and Tamil

Ans. D

18) Milk is drunk by

A) Norwegian

B) Englishman

C) Italian

D) None of these

Ans. B

19) The Norwegian drinks

A) Milk

B) Cocoa

C) Tea

D) Fruit Juice

Ans. B

20) The color of Norwegian's house is

A) Yellow

B) White

C) Blue

D) Red

Ans. A

21) Which of the following is not true:

A) Milk is drunk in the red house

B) Italian lives in the blue house

C) The Spaniard lives in a corner house

D) The Italian lives next to Spaniard.

Ans. D

22) You are walking on a road and come to a fork. You ask the inhabitants Ram, Laxman, Lila,"Which

road will take me to the village?"

Ram says,"I never speak to strangers. I am new to this place"

Laxman says,"I am married to Lila. Take the left road".

Lila says,"I am married to ram. He is not new to this place"

Which of the following is true?

A) Left road takes you to the village

B) Right road takes you to the village

C) Lila is married to laxman

D) None of above

Ans. A.

23) You find that your boat is stolen.You question three inhabitants of the island and they reply

as follows:

John says,"I didn't do it. Mathew didn't do it"

Matthew says,"I didn't do it. Krishna didn't do it."

Krishna says,"I didn't do it .I don't know who did it."

Who stole your boat?

A) John

B) Matthew

C) Krishna

D) None of them.

Ans. B

24) Train E goes from………… to………… and vice-versa

A.Pune and Calcutta

B.Bombay to Goa

C.Bombay to Calcutta

D.Goa to Pune.

Ans. C

25) Which train runs between Calcutta and Pune?

A) A

B) B

C) C

D) D

Ans. D

COMPUTER AWARENESS

26) The device that can transform digital data into analog data is called a

a)transformer

b)network

c)carrier

d)modem

Ans. d

27) Following is true about the IP of a machine

a) It is 48-bit and will always be unique around the world.

b) It is 48-bit and is not necessarily be unique around the world.

c) It is 32-bit and will always be unique around the world.

d) It is 32-bit and is not necessarily be unique around the world.

Ans. c

28) A machine having 64MB memory runs a executable which is 300MB on disk. This is achieved by:

a) Use of FAR pointers

b) Page swapping.

c) Save some variables on another machine on network.

d.) Cannot be run on the machine.

Ans. b

29) Which of the following is true about thread and process startup speed:

a.) The startup of a thread is faster than a process.

b.) The process startup is faster as it is directly controlled by the OS.

c.) They will be equal.

d.) Depends on OS that is used. Faster on Windows98 slower on NT.

Ans. a

30) What causes "Thrashing" of a program :

a.) The constant swapping of program due to page faults.

b.) The inability of a program to get assess to a network resource.

c.) A near overflow / underflow of a variable.

d.) Assessing a memory area not allocated to the process.

Ans. a

31) Turbo-C is a / an

a.) IDE and C compiler/linker.

b) C-compiler/linker

c) C .

d) code generator.

Ans. a

32) The path of creation of an executable is :

a.) coding, linking, compiling, parsing.

b.) coding, parsing, compiling, linking.

c.) coding, compiling, parsing, linking.

d.) coding, compiling, linking, parsing.

Ans. b

33) Memory leak in software is due to

a.) Heavy recursion used in logic.

b.) Using structures of large size

c.) Improper use of the CPU registers.

d.) Improper release of allocated memory .

Ans. d

34) A "stable sort" is different from "sort" in the following way

a) Stable sort handles multiple thread access.

b.) Stable sort maintains the order of equal entities as it was in original sequence.

c.) Stable sort will always sort using the fastest scheme available in the library.

d.) Stable sort can handle exceptional conditions like interrupts in software.

Ans. b

35) The classic way of checking whether a mathematical expression has matched paranthesis will

employ the following data structure :

a.) List.

b.) Directed Graph

c.) Threaded Binary tree.

d.) Stack.

Ans. d

36) The fastest sorting algorithm for a Random set of numbers is:

a.) Quick sort

b.) Shell sort

c.) Bubble sort

d.) Double Bubble sort.

Ans. a or b, I don't know

37) Which of these items is not a form of IPC:

a.) Shared Memory

b.) Pipes.

c.) Message queues.

d.) Semaphores

Ans. b

38) The term "socket" in software refers to:

a.) The software primitive which allows access to the hardware attached to the computer.

b.) The API exposed by drivers to assess a hardware.

c.) End point of connection used to transfer data programmatically.

d.) Th primitive used by OS to get assess to the CPU for process scheduling.

Ans. c

39) Which of these statements is True:

a.) XML is a sub-set of HTML.

b.) XML is a less generic markup language standard derived from SGML.

c.) XML is HTML for Xtended Interfaces like mobile-phones.

d.) XML is a Xtension of HTML which defines new tags.

Ans. d

40) DCOM and CORBA are:

a.) Specifications which enable faster downloads on the net.

b.) Specifications that allow objects to be accessed in a location independent manner.

c.) Parallel implementations of XML by Microsoft and Sun respectively..

d.) Specifications to store objects on disk, for later retrieval.

Ans. b

41) The Process that involves monitoring and improving the software product development is:

(a) Quality Assurance

(b) Quality Control

© Quality Improvement

(d) None of the above

Ans.

42) An executable test that verifies a functionality of the software unit with given input and

expected output is called:

(a) Test Script

(b) Test Plan

© Test Case

(d) All of the above

Ans. maybe c

43) A Bug in the software is, when there is

(a) Application Crash

(b) Feature Failure

© Loss of Data

(d) All of the above

Ans. maybe a, or probably d

44) Testing based on External Specifications without knowledge of how the system is constructed:

(a) Black Box Testing

(b) White Box Testing

© Stress Testing

(d) Performance Testing

(e) None of the above

Ans. a

45) Which of the following is false

(a) QA is a process defined to attain Quality Standards

(b) QC is testing of the product during its production workflow

© A Test case could contain many Test Plans.

(d) A Test Plan could contain many Test Script & Test Cases

Ans. c

46) A Printing Machine that transfers impressions from Flat Plate to Rubber Cylinder, thence to

paper is called

(a) Laser Printer

(b) Press, Offset

© Digital Printer

(d) All of the above

Ans. maybe Offset

47) Printing process in which ink is applied to paper or board from raised portions of printing

plates or type is called:

(a) Printing, Letterpress

(b) Printing, Flexographic

© Printing, Silk screen

(d) None of the above

Ans. maybe letterpress

48) Yellow (lemon), Magenta (cold red), Cyan (blue-green) are the three

(a) Process Colors

(b) Monitor Colors

© Special Colors

(d) Spot Colors

Ans.

49) Leading specifies:

(a) The space between the lines in a paragraph.

(b) The space between the base of a line to the base of the following line in a paragraph.

© The space between the top of the X height and the bottom of the X height of the following line in

a paragraph

(d) The space between the beard of the top line and the beard of the bottom-line.

Ans.

50) Which is a typical page layout program out of the following software products:

(a) Adobe Photoshop

(b) Adobe PageMaker

© Macromedia FreeHand

(d) Macromedia Director

Ans. B