

## MAH MCA CET 2019 QUESTION PAPER

- Speed of boat is 600% of the speed of the stream. If he takes 4 hrs to cover 120 Km. than find the distance travelled by boat in 2 hr upstream.  
a. 45                      b. 50                      c.55                      d.65
- Ram spends 20 % of his monthly income on rent and he divides remaining income in 7:3:6 in mutual funds, expenses of grocery and savings respectively. Then what was the annual expenditure of groceries?  
a. 72000                      b. 76000                      c. 94000                      d.120000
- Ritu travel 10 Km by boat, 450 km by train, 300 km by car. It took 10 hr 20 min to cover the whole journey of 760 km. If the speed of train is 3 times to that boat and 1.5 times to car. Then find the speed of the car in Km/hr.  
a. 40                      b. 60                      c. 80                      d. 100
- The latus rectum of ellipse is  $\frac{2}{3}$  of its major axis. Then the eccentricity is  
a.  $\frac{1}{\sqrt{3}}$                       b.  $\frac{2}{\sqrt{3}}$                       c.  $\frac{1}{3}$                       d.  $\frac{2}{3}$
- The volume of cylinder is  $616 \text{ cm}^3$  and height is 4 cm. then finds its total surface area?  
a.  $484 \text{ cm}^2$                       b.  $562 \text{ cm}^2$                       c.  $462 \text{ cm}^2$                       d. none of these
- If y is function of x, then  $\frac{d}{dx}(x^4y)$  is equal to  
a.  $x^4+4x^3y$                       c.  $y+x^4 \frac{dy}{dx}$   
b.  $4x^3+4x^3 \frac{dy}{dx}$                       d. none
- If  $(x-1)$  is the factor of  $x^3-kx^2+11x-6=0$ . Then the value of k is  
a. 6                      b. 12                      c. -1                      d. 0
- Another name of base is  
a. Radix                      b. median                      c. root                      d. mean
- A man is known to speak the truth 4 out of 5 times. He threw a die and reports that it is a six. Find the probability that it is actually is six.  
a.  $\frac{4}{9}$                       b.  $\frac{2}{7}$                       c.  $\frac{5}{9}$                       d.  $\frac{2}{3}$
- Out of 400 eggs procured by Ram for selling on Monday. Some eggs remain unsold, on Tuesday he sold these unsold eggs in addition to all 440 eggs (procured on Tuesday). If number of eggs sold on Monday is 68% of that sold on Tuesday. then how many eggs remain unsold on Monday ?  
a. 50                      b. 60                      c. 70                      d. 80

Passage :

10 boxes are placed in a form of stack. A and B have only 4 boxes between them. B is placed below A. Three boxes between B and E. E and H contains exactly four boxes

between them. H is placed at a place above E. only one box between C and K . D placed immediately above G. one box placed between G and J. F is at the position above J. And these has as many boxes between H and B as H and C.

11. Who is immediate below C?
  - a. A
  - b. H
  - c. T
  - d. B
12. Who is at the bottom of the stack?
  - a. E
  - b. H
  - c. C
  - d. F
13. Number of boxes above F?
  - a. 4
  - b. 2
  - c. 3
  - d. 7
14. Which are odd in comparison to other?
  - a. H-I
  - b. G-K
  - c. C-K
  - d. none
15. What is Value of the NAND GATE? When A=1 and B=1
  - a. +1
  - b. +2
  - c. 0
  - d. -1
16. Which operating system has command line interface by default?
  - a. UNIX
  - b. ANDROID
  - c. WINDOWS
  - d. IOS
17. The LSB and MSB of 1234567 is respectively
  - a. 4, 1
  - b. 7, 1
  - c. 1, 7
  - d. 4, 7
18. Device designed to read information into a small plastic card.
  - a. Magnetic tape
  - b. Tape Card
  - c. badge Reader
  - d. None of these
19. 2's Component of 5.
  - a. 1010
  - b. 0101
  - c. 1011
  - d. 1100
20. Divide 101010 by 00110
  - a. 111
  - b. 101
  - c. 010
  - d. 100
21. Storage Class is the default storage class for in C language all local variable
  - a. INTERN
  - b. AUTO
  - c. REGISTER
  - d. STASTIC
22. In which OS, user cannot be directly interact with computer?
  - a. Distributed OS
  - b. Time sharing OS
  - c. Batch OS
  - d. none of these
23. Decide which process gets the processor when when and for how much time
  - a. I/O controller
  - b. job scheduler
  - c. process manager
  - d. memory manager
24. The task of temporary switching in and out of the main memory is
  - a. Fragmentation
  - b. Paging
  - c. Swapping
  - d. Deadlock
25. Scheduling is done
  - a. For increase turnaround time
  - b. For decrease turnaround time
  - c. no relation between scheduling and turn round time
  - d. None of these

26. ....stores a bit data using a pair of transistor and capacitor which constitute a..... memory cell  
 a. DRAM, SRAM    b. DRAM, DRAM    c. SRAM, DRAM    d. SRAM, SRAM
27. Codes consisting of light and dark marks which may be optically read is known as .....  
 a. Decoder    b. Barcode    c. Special code    d. Mnemonics
28. Types of storage for holding information when process is running  
 a. Primary memory    b. Intermediate memory    c. secondary memory    d. none
29. Removing the CPU from path and letting the peripheral device manage the memory bases directly would improve the speed of transfer, this technique is called  
 a. DNA    b. DMA    c. DPI    d. none of these
30. The output of program  

```
#include< stdio.h >
Main( )
{
  int i= 1;
  while (i++<=5)
  printf ("%d" i++);
}
```

 a. 2,4    b. 6    c. 4    d. 2, 6
31. The output of program  

```
#include< stdio.h >
Main( )
{
  Char*s = "Abc";
  while (*s)
  printf ("%c" *s++);
}
```

 a. Abc    b. compile time error    c. run time error    d. bc
32. Which of the following is not advantage of cache memory?  
 a. Has unlimited capacity    c. Consume less access time  
 b. Faster than main memory    d. none of these

**ANSWER KEY:**

<b>1.</b>	<b>b</b>	<b>9.</b>	<b>a</b>	<b>17.</b>	<b>b</b>	<b>25.</b>	<b>b</b>
<b>2.</b>	<b>a</b>	<b>10.</b>	<b>b</b>	<b>18.</b>	<b>c</b>	<b>26.</b>	<b>a</b>
<b>3.</b>	<b>b</b>	<b>11.</b>	<b>b</b>	<b>19.</b>	<b>c</b>	<b>27.</b>	<b>b</b>
<b>4.</b>	<b>a</b>	<b>12.</b>	<b>a</b>	<b>20.</b>	<b>a</b>	<b>28.</b>	<b>a</b>
<b>5.</b>	<b>a</b>	<b>13.</b>	<b>b</b>	<b>21.</b>	<b>b</b>	<b>29.</b>	<b>b</b>
<b>6.</b>	<b>b</b>	<b>14.</b>	<b>a</b>	<b>22.</b>	<b>c</b>	<b>30.</b>	<b>a</b>
<b>7.</b>	<b>a</b>	<b>15.</b>	<b>c</b>	<b>23.</b>	<b>c</b>	<b>31.</b>	<b>a</b>
<b>8.</b>	<b>a</b>	<b>16.</b>	<b>a</b>	<b>24.</b>	<b>c</b>	<b>32.</b>	<b>a</b>