

15-09-2011 PDA-CS APTITUDE TEST 5 Dur : 45mins

1. A takes twice as much time as B or thrice as much time to finish a piece of work. Working together, they can finish the work in 2 days. B can do the piece of work alone in:
a. 4 days b. 6 days c. 8 days d. 10 days
2. The ratio of $4^{3.5} : 2^5$ is same as :
a. 2:1 b. 4:1 c. 7:5 d. 7:10
3. Four years ago, the father's age was three times the age of his son. The total of the ages of the father and son after four years, will be 64 years. What is the father's age at present?
a. 32 yrs b. 36 yrs c. 44 yrs d. None of these
4. The difference between a positive proper fraction and its reciprocal is $\frac{9}{20}$. The fraction is:
a. $\frac{3}{5}$ b. $\frac{3}{10}$ c. $\frac{4}{5}$ d. $\frac{5}{4}$
5. If the cost price of 12 pens is equal to the selling price of 8 pens, the gain percent is :
a. 25% b. $33\frac{1}{3}\%$ c. 50% d. $66\frac{2}{3}\%$
6. X & Y can do a piece of work in 20 days and 12 days respectively. X started the work alone and then after 4 days Y joined him to till the completion of the work. How long did the work last?
a. 6 days b. 10 days c. 15 days d. 20 days
7. How many kg of pure salt must be added to 30kg of 2% solution of salt and water to increase it to a 10% solution?
a. $2\frac{2}{3}$ b. $1\frac{2}{3}$ c. $\frac{3}{2}$ d. can't be increased
8. Q is as much younger than R as he is older than T. If the sum of the ages of R and T is 50 years, what is definitely the difference between R and Q's age?
a. 1 yr b. 2 yrs c. 25 yrs d. data inadequate
9. How many three digit nos. are divisible by 6?
a. 149 b. 150 c. 151 d. 166
10. Sourav calculates his profit on selling price and finds it to be 20%. What is the actual profit percentage?
a. 25% b. 29% c. 30% d. 31%
11. Rs.1210 were divided among A, B and C in such a manner that A:B= 5:4 and B:C= 9:10. Then C gets (in Rs.)
a. 340 b. 400 c. 450 d. 475
12. The ratio of the ages of a man and his wife is 4:3. After 4 yrs, this ratio will be 9:7. If at the time of marriage, the ratio was 5:3, then how many yrs ago were they married?
a. 8 yrs b. 10 yrs c. 12 yrs d. 15 yrs
13. A sum of money is sufficient to pay A's wages for 21 days and B's wages for 28 days. The same money is sufficient to pay the wages of both for:
a. 12 days b. $12\frac{1}{4}$ days c. 14 days d. $24\frac{1}{2}$ days
14. What is the unit digit in $\{(6374)^{1793} \times (625)^{317} \times (341)^{491}\}$?
a. 0 b. 2 c. 3 d. 5
15. When a producer allows 36% commission on the retail price of his product, he earns a profit of 8.8%. What would be the profit % if the commission is reduced to 24%?
a. 49.6% b. 50% c. 46.9% d. 54.3%
16. A is 50% as efficient as B. C does half of the work done by A & B together. If C alone does the work in 40 days, then A, B and C together can do the work in :
a. $13\frac{1}{3}$ days b. 15 days c. 20 days d. 30 days
17. The sum of the ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?
a. 4 yrs b. 8 yrs c. 10 yrs d. None of these

18. 85 kg of a mixture contains milk and water in the ratio of 27:7. How much more water is to be added to get a new mixture containing milk and water in the ratio 3:1?
- a. 5 kg b. 6.5 kg c. 7.25 kg d. 8 kg
19. Find the no. of zeros at the end of $175!$
- a. 41 b. 43 c. 42 d. 44
20. In expressing a length 81.472 km as nearly as possible with 3 significant digits, find the % error.
- a. 0.032% b. 0.033% c. 0.034% d. 0.035%
21. One man, 3 women and 4 boys can do a piece of work in 96 hours, 2 men and 8 boys can do it in 80 hours, 2 men and 3 women can do it in 120 hours. 5 men and 12 boys can do it in:
- a. $39\frac{1}{11}$ hours b. $42\frac{7}{11}$ hours c. $43\frac{7}{11}$ hours d. 44 hours
22. A, B and C can complete a work separately in 24, 36 and 48 days respectively. They started together, but C left after 4 days of start and A left 3 days before the completion of work. In how many days will the work be completed?
- a. 15 b. 22 c. 25 d. 35
23. A person was asked to state his age in years. His reply was "take my age 3 yrs hence, multiply it by 3 and then subtract 3 times my age 3 yrs ago and you will know how old I am". What is his present age?
- a. 18 b. 20 c. 24 d. 30
24. 1 year ago the ratio of Sourav & Sachin's age was 6:7 respectively. 4 years hence, this ratio would become 7:8. How old is Sachin?
- a. 38 b. 36 c. 40 d. 50
25. Find the remainder when 18^{18} is divided by 19.
- a. 1 b. 18 c. 11 d. 4
26. Which one of the following cannot be the square of a natural number?
- a. 30976 b. 75625 c. 28561 d. 143642
27. The total monthly sales of two companies A and B are in the ratio 2:3 and their total monthly expenditures are in the ratio 3:4. Find the ratio of the profits of the two companies given that company A's profit is equal to $\frac{1}{5}$ of its sales.
- a. 6:13 b. 5:12 c. 1:2 d. 4:13
28. Two numbers are in the ratio of 4:5, if 7 is added to each, the ratio between the numbers becomes 5:6. Find the numbers?
- a. 28:35 b. 35:28 c. 35:42 d. 42:35
29. Which of the following is a better investment: 6% stock at 125 or 5% stock at 114?
- a. 6% better b. 5% better c. both are same d. none
30. If Ajay sells an item at $\frac{3}{4}$ of its selling price he incurs a loss of 4%. What will be the profit or loss % if he sells it at the actual selling price?
- a. 127 b. 128 c. 129 d. 130
31. A train 270 metres long moves at a speed of 25 kmph. It will cross a man coming from the opposite direction at a speed of 2 km per hour in?
- (a) 36 sec (b) 28 sec (c) 30 sec (d) 25 sec
32. The difference between the times taken by two buses to travel a distance of 350 km is 2 hours 20 mins. If the difference between their speeds is 5 kmph, find the slower speed.
- (a) 35 kmph. (b) 30 kmph. (c) 25 kmph. (d) 20 kmph
33. A 300 metre long train crosses a platform in 39 sec while it crosses a signal pole in 18 sec. What is the length of the platform?
- (a) 320m (b) 350 m (c) 650m (d) data inadequate

34. A train 110m long passes a man, running at 6 kmph in the direction opposite to that of the train, in 6 sec. The speed of the train?

(a) 54 kmph (b) 60 kmph (c) 66 kmph (d) 72 kmph

35. A train X starts from Trichi at 4 p.m. and reaches Erode at 5 p.m. while another train Y starts from Erode at 4 p.m. and reaches Trichi at 5.30 p.m. The two trains will cross each other at:

(a) 4.36 pm (b) 4.42 pm (c) 4.48 pm (d) 4.50 pm

C QUESTIONS : FIND THE O/P OF THE PROGRAMS

```
36. void main()
{
static buffer[10];
int i;
clrscr();
for(i=0;i<2;i++)
printf("%s",buffer[i]);
getch( );
}
```

(a). (null)(null) (b). garbage value (c). error (d) 0 0

```
38.doit(int *x,int *y)
```

```
{
    *x = *x**y;
    *y = *y**y;
}
```

```
void main()
{
int x=10,y=2;
clrscr();
doit(&x,&y);
printf("%d,%d",x,y);
}
```

(a) 10 2 (b) 10 4 (c) 20 2 (d) 20 4

```
40.void main()
```

```
{
char *axe[] = {"1", "2", "3"};
int result;
clrscr();
result =
sizeof(axe)/sizeof(char*);
printf("%d",result);
}
```

(a). 3 (b). 6
(c). 2 (d). error

```
42.void main()
```

```
{
const int k=5;
int num[20]={1,2,3,4,5};
for(k=0;k<5;k++)
    printf("%d",num[k]);
}
```

(a).1 2 3 4 5 (b).error
(c).5 (d).none

```
37. void main()
```

```
{
char *buffer;
buffer = "done-boss";
clrscr();
//printf("%c",buffer);
//printf("%s",buffer);
printf("%s",*(buffer+3));
getch();
}
```

(a). program will not compile (b). abnormal program termination (c). e-boss (d). ne-boss

```
39.void main()
```

```
{
unsigned char s;
unsigned c=0;
for(s=0;c!=120;c+ +100)
printf("%d,",c);
}
```

(a). 0,100, (b). error
(c). 0,0,0,0, (d). 0,100,200,300,...

```
41.void main()
```

```
{
int buffer[] = {0,0x9,8,7};
int ptr = 1;
clrscr();
printf("%d,",buffer[ptr]);
printf("%d,",ptr[buffer]);
printf("%d",buffer[ptr++]);
getch();
}
```

(a). 9,9,9 (b). 9,junk,9
(c). 0x9 junk 9 (d) 9 junk 8

```
43 #include <stdio.h>
```

```
void main()
{
char *s="hai";
clrscr();
printf("%.*,%s",s,s);
getch();
}
```

(a). %.*,hai (b). %.*,%s
(c). .*,hai (d). error

```
44.main()
{
int x,y,z;
clrscr();
scanf("%d%d",x,y);
z=x+y;
printf("%d",z);
return 0;
}
```

Give input values: x=2,y=3

- (a). 5 (b). will not compile
(c). empty screen (d). garbage value

```
45.void main()
{
int x=20,y=30;
clrscr();
if(x=6)y=7;
else y=3;
printf("%d",y);
}
```

- (a). 7
(b). 3
(c). error

Note:

☺ Solutions are available in PDA library and also in PDA website.

Website: pda@mitindia.edu

☺ Saturday session going to take place on 17th September.

Events are

Group discussion

Snap discussion and many more...

Please do attend and make use of it....