12.08.10 **PDA-CS APTITUDE TEST – IV** Time:1 hr

Quantitative aps

1. Rajesh and Rocky are friends. Each has some money. If Rajesh Gives Rs.30 to Rocky, then Rocky will have twice the money left with Rajesh. But if Rocky gives Rs.10 to Rajesh, then Rajesh will have thrice as much as is left with Rocky. How much does Rajesh and Rocky have?
a) 10, 35 b) 40, 41 c) 62, 34 d) 34, 62

2. Find the largest number of four digits exactly divisible 12, 15, 18 and 27.
a) 9720 b) 9715 c) 9700 d) 7920

3. After paying all your bills you have Rs. 7.20 in your pocket. You have at least one of 50p and 20p coins, but no other nor any currency notes. What is the max number of coins do you have?
a) 30 b) 33 c) 36 d) 39

4. The cost of diamond varies directly as the square of its weight. It is broken into four pieces whose weights are in ratio 1:2:3:4.As a result, the merchant has a loss of 7,00,000. Find diamond's original cost.
a) 10, 00, 000 b) 12, 00, 000 c) 13, 00, 000 d) 7, 00, 000

5. Given that 10^(0.48)=x and 10^(0.70)=y and $x^z = y^2$. Then the value of z is close to
a) 1.45 b) 1.88 c) 2.9 d) 3.7

6. The present age of the father is 3 years more than three times the age of his son. Three years hence, father's age will be 10 years more than twice the age of his son. Find the present age of father.
a)45 b)60 c)33 d)30

7. A and B are two stations 390 km apart. Cheran express starts from A at 10 a.m. and travel towards B at 65 kmph. Intercity Express starts from B at 11 a.m. and travel toward B at 35 kmph. At what time the two trains meet
a) 2 p.m. b) 1.45 p.m. c) 2.30 p.m. d) 2.15 p.m.

8. Simplify $((2289 + 3166)^2 - (2289 - 3166)^2)/ (2289*3166)$
a) 4 b) 8 c) 12 d) 22

9. 50 is divided into 2 parts such that the sum of reciprocals is 1/12. Find the two parts.
a) 30, 20 b) 10, 40 c) 25, 25 d) 15, 35

10. Find the angle between the hour hand and minute hand of the clock when the time is 3.25?
a) 46° b) 47° c) 47 ½ ° d) 50°

11. A, B, C enters into partnership. A invest 3 times as much as B invests and B invests two-third of what C invests. At the end of the year profit earned is Rs.6600.what is the share of B?
a) 1800 b)1600 c)1200 d)1000

12. In a 100m race, Ajith runs at 8 kmph. If Ajith gives Vijay a start of 4m and still beat him by 15 sec. what is the speed of Vijay.
a) 5.72 kmph b) 5.76 kmph c) 5.9 kmph d) 6 kmph

13. A man sold two flats for Rs.6, 75, 958 each. On one he gains 16% while on other he loss 16%.How much does he gain or loss in the whole transaction.
a) 5 % gain b) 2% loss c) 7% gain d) 2.56% loss

14. The number of digits in (2pqr)^4 where it is a four digit number
a) 13 b) 14 c) 15 d) cant determined

15. Sourav and Sachin working separately can do a piece of work in 9 and 12 days respectively. If they work for a day alternatively, Sourav beginning, in how many days the work will be finished.
a) 10 b) 10 ½ c) 10 ¼ d) 11

Puzzles:

16. If you read this word forward it is very heavy. But if you read it backwards, it is not. What is the word?
17. At a fruit stall in Puzzle land, an Apple costs Rs.17, an Orange costs Rs.21, and a Pear costs Rs.14. What is the cost of a mango?
18. Can you find the next letter in the series? S , T , I , L , N , T , F , Y , ?
19. You are in a room in an ice-covered hill. Through the window, you see a bear near a tree. An apple falls down from the tree at 10 meter per second in 1 second. What is the color of the bear?
20. Sowmya bought a car with a peculiar 5 digit numbered license plate which on reversing could still be read. On reversing, its value increased by 78633. What's the original number if all digits are different?
21. $X^3+y^3=x^2+y^2$. How many sets(x,y)satisfy this condition?
Questions 22-25 are based on the following:

Eight varsity baseball players (G, H, J, K, L, M, N, and O) are to be honored at a special ceremony. Three of these players (H, M, and O) are also varsity football players While Two of them (K and N) are also basketball players on the varsity team. In arranging the seats it was decided that no athlete in two sports should be seated next to another two-sport athlete

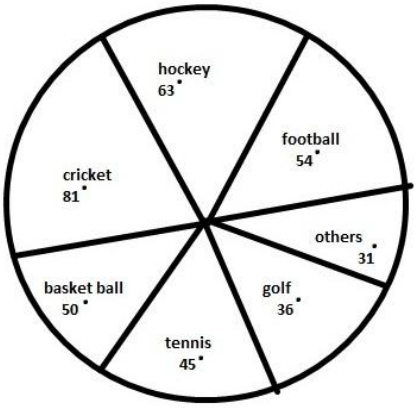
22. Which of the following combinations is likely in order to have the arrangement of seat assignments as planned?
a) H G K J b) H K J L c) J K M N d) J L H K

23. Which of the following cannot sit next to M?
a) G b) J c) G and J d) K

24. Before all athletes are seated there are two vacant seats on either side of N. Which two athletes may occupy these seats?
a) G and K b) G and L c) J and H d) L and O

25. To have the proper seating arrangement, K should sit between
a) G and H b) J and M c) L and N d) J and L

Data interpretation: Questions 26-30 are based on the following:



26. What percent of total spending is spent on tennis?
a) 12 ½ % b) 22 ½% c)25% d)45%

27. How much percent more is spent on hockey than that of golf?
a) 27% b) 35% c) 37.5% d) 75%

28. How much percent less is spent on football than that of cricket?
a) 22 2/9 % b) 27% c) 33 1/3 % d) 37 ½ %

29. If the total amount spent on sports during the year was 2 CRORES, the amount spent on cricket and hockey was
a) Rs.8, 00, 000 b) Rs. 80, 00, 000 c) Rs.1, 20, 00, 000 d) Rs. 1, 60, 00, 000

30. If the total amount spent on sports during the year be Rs. 1, 80, 00, 000, the amount spent on basketball exceeds that on tennis by:
a) Rs. 2, 50, 000 b) Rs. 3, 60, 000 c) Rs. 3, 75, 000 d) Rs. 4, 10, 000

VERBAL:

31. Scribble: write:: stammer:	a) walk	b) dance	c) play	d) speak
32. Venerate: work ship:: extol:	a) homage	b) glorify	c) recommend	d) compliment
33. Genuine: Authentic:: mirage	a) image	b) Transpiration	c) illusion	d) reflection
34. Poodle: dog:: moose:	a) deer	b) duck	c) fowl	d) donkey
35. Matricide: mother::homicide:	a) father	b) children	c) human	d) apes

SYNONYMS:

36. Unguent -	a) ointment	b) unison	c) curb	d) uncanny
37. Tirade -	a) advice	b) independent	c)scolding	d) spent
38. Spate -	a) flood	b) overcoat	c) wipe	d) smirk

ANTONYMS:

39. AFFABLE -	a) antics	b) zeal	c) banged	d) rude
40. IRKSOME -	a) interesting	b) irrelevant	c) observation	d) killed off

CS-APS:

1. What is the output of the following program?

```
#include<stdio.h>
#include<ctype.h>
main()
{
 char a[]={"Hello World"};
  int i,p=0,g=0;
  for(i=0;a[i]!='\0';i++)
 {        if(isprint(a[i]))
          p++;
          if(isgraph(a[i]))
          g++;
  }
  printf("%d %d\n",p,g);
}
```

A. 10 10 B. 10 11
C. 11 11 D. 11 10

2. What would be the following program do?

```
main()
{
unsigned int num;
int i;
scanf("%u",&num);
for(i=0;i<16;i++)
printf("%d",(num<<i&1<<15)?1:0);
}
```

A. It prints all even bits from *num*
B. It prints all odd bits from *num*.
C. It prints binary equivalent of *num*.
D. None of the above.

3. What does the following function do?
ldexp(x,n)

A. xn B. x*10n
C. nx D. x*2n

4. In the following code:

```
#include<stdio.h>
main()
{        FILE *fp;
         fp=fopen("trial","r");
 }
```

fp points to
A. The first character in the file.
B. A structure which contains a char pointer which points to the first character in the file.
C. The name of the file.
D. None of the above.

5. What would be the output of the following program?

```
main()
{
 printf(5+"Fascimile");
 }
```

A. Error B.Fascimile
C. mile D .None of the above

6. What error would the following function give on compilation?

```
f(int a,int b)
{
int a;
 a=20;
 return a;
}
```

A. Missing parentheses in *return* statement.
B. The function should be declared as *int f (int a, int b)*.
C. Redeclaration of a.
D. None of the above.

7. What does the following function do?
sscanf(a,"%s",b);
where *a* and *b* are *strings*.

A. gets input for string 'a' and copies it to string 'b'.
B. reads content from string 'a' and copies the content to string 'b'
C. gets input for both strings 'a' and 'b'.
D. reads input from string 'b' and copies the content to string 'a'.

8. What is the following program doing?

```
{  unsigned int num;
   int c=0;
   scanf("%u",&num);
   for(;num;num>>=1)
   {   if(num&1)
            c++;   }
   printf("%d",c);
}
```

A. It counts the number of bits which are one in the number *num*
B. It sets all bits in the number *num* to 1
C. It sets all bits in the number *num* to 0
D. None of the above

9. What would be the output of the following program?

```
#define SQR(x) (x*x)
main()
{
int a,b=3;
a=SQR(b+2);
printf("\n%d",a);
}
```

A. 25
B. 11
C. Error
D. Garbage value

10. Which of the following is true about *argv*?

A. It is a pointer to an array of character pointers
B. It is an array of strings
C. It is an array of character pointers
D. None of the above