Unisys Model Paper Questions

Q1. The ratio of the number of white balls in a bag to that of black balls is 1:2. If 9 grey balls are added the ratio of number of white, black and grey become 2:4:3. How many black balls were in the bag?

   a) 6
   b) 9
   c) 12
   d) 8

Q2. How many numbers are there between 100 and 200 both inclusive and divisible by 2 or 3?

   a) 67
   b) 68
   c) 84
   d) 100

Q3. What is the value of the following series 1/7 + 2/72 + 1/73 +2/74 + 1/75

Q4. In a right angled triangle, the square of the hypotenuse is twice the product of the other two sides. Then one of the acute angles of the triangle is:

   a) 450
   b) 300
   c) 600
   d) 150

Q5. If all the picture cards are removed from a pack of cards, the sum of the values of the remaining is

   a) 55
   b) 220
   c) 54

d) 216

Q6. Two trains are traveling in 60 kmph on same trace, towards each other. When the distance between them is 18 km, a fly is going to start, flying between them in 80 kmph speed. Find the traveling path distance of the fly up to when it is going to crush by the 2 trains?

ANS: 12 km

Directions for Q7, Q8:
There are four teams A, B, C, D playing game. If any one team loses, it will pay twice the money to all other teams. They play 3 games. B, C, D loses one game each in the order. Finally A & B has Rs. 40 each & C has Rs. 80 & D has Rs. 16.

Q7. Which team has started with maximum money?

i) A
ii) B
iii) C
iv) D

ANS: ii) B (93)

Q8. Which team has started with minimum money?

i) A
ii) B
iii) C
iv) D

ANS: i) A (5)

Q9. There are 4 numbers as 5,8,2,1 Form 4, four digit numbers as A, B and find the sum?

Q10. What should be the value of a, in the polynomials x2 - 11x + a and x2 - 14x + 2a, so that these two polynomials have common factors?

    a) 24
    b) 1
    c) -1
    d) 1/2

Q11. There are 2 toy cars facing each other at a distance of 500 cm from each other. Each car moves forward by 100 cm at a speed of 50 cm/s and then moves backward by 50 cm at a speed of 25 cm/s. How long will it take for the cars to collide?

    a) 12 s
    b) 14 s
    c) 16 s
    d) 13 s

Q12. Rita puts 9 pairs of black socks and 8 pairs of white socks in a drawer. She takes 3 socks. What is the probability that we get a pair of black socks?

Q13. What is the sum of all the four digit numbers formed using the digits 0, 1, 2 and 3? None of the two digits should be repeated.

Q14. There are two square rooms. Both are of same height. The second room is 5 m longer than the first room. The rate for papering the walls is 10 paisa per square meter. The total cost for papering the rooms is Rs 60 and Rs 80. What is the height of the rooms?

Q15. If all 6s get inverted and become 9s, by how much will the sum of all numbers between 1 and 100 both inclusive change?

    a) 300
    b) 330
    c) 333
    d) none of these

Q16. What is the minimum number of weighing operations required to measure 31 kg of rice if only one stone of 1 kg is available?

    a) 31
    b) 6
    c) 5
    d) 16

Q17. Find the greatest number that will divide 964, 1238 and 1400 leaving remainder of 41, 31 and 51 respectively.

    a) 58
    b) 64
    c) 69
    d) 71

Technical:

Q18. What is the output of the program, if integer occupies 2 bytes memory?

```
union
{
int a;
char b;
char c[10];
}u1;
void main()
{
```

int l=sizeof(u1);
printf(%d,l);
getch();
}

a) 13
b) 10
c) 16
d) None of the above

ANS: b) 10

Q19. What is the output of the program?

void main()
{
int i,j,k,n=5;
clrscr();
for(i=5;i>0;i--)
{
j=1
k=n&j;
k==0?printf(0):printf(1);
}
getch();
}

a) 00011
b) 11110
c) 11001
d) 11100

ANS: b) 11110