

Paper Code, ZMDev02



secal Instructions :

Total Time Duration: 90 Minutes (1.5 hours)

- This question paper has two sections with a total of 25 questions
- Section A is an aptitude test with 15 questions.
- Section B is a Programming test with 10 questions.
- E Ignore missing things like #include . (,) _ etc.
- Dlease do not write anything on the question paper
- It is advised to write the rough work on a separate piece of paper with a pen-

Section A: Aptitude

- I wo eyelists start together to travel to a certain destination, one at the rate of 4 kmph and the other at the rate of 5 kmph. Find the distance if the former arrives half an hour after the latter.
- 2) The seating arrangement for six persons is based on the following conditions. Who are the neighbours of Quentin?
 - a. Preston sits next to Shepherd and Torres.
 - b. Quentin sits diametrically opposite to Preston.
 - c. Shortest distance between Shepherd and Rachel equal to the shortest distance between Torres and Ursula.
- 3) A basket contains 5 red 4 blue 3 green toys. If three toys are picked up at random, what is the probathat at least one is blue?
- 4) There are seven pairs of blue shoes and five pairs of purple shoes. They are all put into a box and are drawn one at a time. To ensure that at least one pair of blue shoes are taken out, what is the num shoes required to be drawn out?
- 5) A third of Antony's marks in maths exceeds a half of his marks in English by 30. If he got 240, subjects together, how many marks did he get in English?
- 6) One evening before sunset, Ramon and Harrison were talking to each other face to face. If I shadow was exactly to the right of Harrison, which direction was Ramon facing?
- 7) The batting average of runs of a cricket player of 30 games was 96. How many runs must next games so as to increase his average of runs by 12?
- 8) 18 years ago, Jhonny was 3 times as old as his son David. Now Jhonny is only twice David. Then the sum of the present ages of Jhonny and David is?

meters, how long (in

2) Write the output of the below program:

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e ferry in still war !
```

```
#include<stdio.h>
void main() /
int p = 5, q = 8;
int x = (p++) + (++q) + (p-+) + (-q);
int y = (q-) + (-p) + (++q) + (p++);
printf("%d %d %d %d\n", x, p, y, q);
```

3) Write the output of the below program:

```
#include <stdio.h>
  int rec(int n) {
  if (n \le 1)
   return 1;
  return n * rec(n - 1);
int main() {
int num = 5;
int result = rec(num);
printif"Result "offer", result);
return 0;
```

4) What property of the input number does this function check?

```
public boolean x(in number)
return (number & 1) = 0,
```

5) If the result is 21, find z.

```
#include sadio.h>
int main() (
 IIII X - S
 inty = 3
 int ge 3
 z = x++ + (-y) + z;
printff Result: %d'n', zk:
```

(mi-0:1-11:41) printing of a metally. int majoro mant) = [30, 40, 50]; in size sizeoffart)/sizeoff*an); funtarr, size); printartar, size); return 0; What should be the if condition to print "jellyfish" Anclude Sidio ha in main of printro (1 else 1 printa "gos" "fish"); 8) Write the output of the below program: #include ~sidio.h. im mainO f int vart = 8; ini varz 9 (var2 = 1) == var1) printfuoide, varz); intervalor + var2);

- 9) In a college election between two constitues, one constitute per 25% of the total valid votes. 30% of the total valid votes and other establishes got total work invalid. If the total votes were 7600, what is the number of valid votes the other establishes got total.
- 10) 4 men and 6 women can complete a work in 8 days, while 3 men and 7 women can complete it in 10 days. In how many days will 10 women complete 0.2
- 14) A train is 360 meters long and is running at a speed of 45 km/hour. At what time will it pass a bridge that is 140 meters in length? (answer in seconds)
- 12) Find the odd one out: 835, 734, 642, 751, 853, 981, 532
- 13) Speed of Barry in still water is 5 km/hr and the river is running at 3km/hr. The total time taken to go to a place and come back is 10 hours. What is the distance travelled?
- 14) What will be the next number in the series 182, 181, 183, 179, 187, 171, ...?

15)

- I. Tom weight less than Jackson.
- H. Tom weighs more than Pierce
- III. Out of these three, Pierce weighs the least.

If the first two statements are true, is the third statement true or false?

Section B: Programming

1) Write the output of the below snippet: