

# HALF YEARLY EXAMINATION, 2017-18

## COMPUTER SCIENCE AND GENERAL STUDIES

Time - 3 hrs.

Class – XI (D, F, H)

M.M. – 100

Name of the student \_\_\_\_\_ Section \_\_\_\_\_ Date-04.09.2017 (Monday)

### COMPUTER SCIENCE (50 marks)

**Q.1 Answer the following:**

- a) Rewrite the following code using IF statement without effecting the output of the code: (2)

```
int a=1;
switch case (a)
{
case 1:
    System. out.print (“Sunday”);
    break;
case 2 to 6:
    System. out.print(“WeekDay”);
    break;
case 7:
    System.out.print(“Nearing Weekend”);
    break;
default : System.out.print(“Wrong Number”);
}
```

- b) Change the following code using For loop without effecting the out put: (2)

```
int j=1,s=0;
while ( j < 10 ) {
    System. out.print(j);
    s = s + j;
    j +=3;
}
```

- c) Find the output of the following code: (2)

```
double Number = 7583241;
int Firsr = 0, Second = 0, R;
while (Number > 0)
{
    R = Number % 10;
    if ( R % 2 == 0 )
```

```

First += R;
else
Second += R;
Number = Number / 10;
}
System.out.println(First – Second );

```

d) Give java code to accept value in inches and convert inches to equivalent feet and inches. (2)

Ex: 27 inches to be displayed as 2 feet 3 inches

e) To convert days into equivalent years, months and days. (2)

Ex: if user enters 400 then it should display : 1 year(s) 1 month(s) 5 day(s) approx.

f) Give java code to calculate bill based on calls made by the user. Number of calls being entered by the user. (2)

Number of Calls	Rate
1 – 100	Rs. 500/- rental charge only
101 – 200	Re. 1.00 per call + rental charge
201 – 300	Re. 1.20 per call + rental charge
Above 300	Re. 1.50 per call + rental charge

g) Give java code to accept any string and display in the following format. (2)

Ex: Input – OPJS

Output –

O

OP

OPJ

OPJS

h) Give java code to display the following pattern. (2)

```

0
10
210
3210

```

i) Explain difference between print and println methods. (2)

j) Give java code to check if the given number is perfect number. (2)

Ex: 6 is the perfect number because the sum of its factors (excluding the number itself) is 6.

**Q.2 Answer the following:**

a) Develop an application to prepare students grade on the basis of marks obtained in five subjects. The criteria have been given below for grade evaluation. Design the frame also. (5)

## Criteria

Per	Grade
>=90	A
>=75 and <90	B
>=60 and <75	C
>=45 and <60	D
<45	E

- b) WAP in Java to print the following series. Design the frame also. (5)  
0, 1, 1, 2, 3, 5, 8, 13, 21... Up to n

## PRACTICAL EXAMINATION

(20)

### GENERAL STUDIES (50 marks)

#### Instructions :

- Attempt all the questions.
- Each question carries 5 marks.
- Word limit 150 words each question.

- Q.1** Find mean, median and mode of the following frequency :  
2, 4, 6, 3, 2, 1, 4, 3, 2, 2, 4, 6, 3, 2, 1, 4, 3, 2, 1, 1, 1, 9, 7, 6, 3, 2, 2, 4, 9, 7
- Q.2** Write short note on Indo-USA relation.
- Q.3** What is the effect of internet games on students?
- Q.4** What is RERA? Discuss.
- Q.5** Frequent visit of Prime Minister to different countries has brought growth to our country. Discuss.
- Q.6** What is the contribution of women in Indian sports? Explain with examples.
- Q.7** Describe the importance of balance diet in our health.
- Q.8** Discuss how can you can reach your goals and targets.
- Q.9** Knowledge of English language is a plus factor in one's life. Discuss.
- Q.10** Festivals reflect our culture and brings closer. Discuss.

