

ASANSOL ENGINEERING COLLEGE

Practical Examination 2020-2021

Sub Code: PCC 592

Sub Name: Operating System

Full Marks: 40 Time: 11:10 AM - 12:30 PM Date: 20-03-2021

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- 2) Write a shell script to send a number to a function and get back the factorial of a number from the function.

Code:

```
#!/bin/bash
function factorial()
{
    f=1
    n=$1
    for ((i=2; i<=n; i++));
    do
        f='expr $f 1* $i'
    done
    echo $f
}
echo -n "Enter a number: "
read n
fact="factorial $n"
echo "Factorial of " $n = $fact
```

Output:

```
n/Desktop/Code/OS-lab > ./factorial.sh
Enter a number: 5
factorial of 5 = 120
```