##

Model answers for paper-based exam and marks distribution

##

Q.1)

```
scores = [[], [], [], [], []]
ninety_percents = [{}, {}, {}, {}, {}]

for record in open('/tmp/sslc1.txt'):
    record = record.strip()
    fields = record.split(';') # (1 mark)

    region_code = fields[0].strip()

    for i, field in enumerate(fields[3:8]): # (1 mark)
        score_str = field.strip()
        score = 0 if score_str == 'AA' else int(score_str) # (1 mark)
        scores[i].append(score)
        if score > 90:
            if region_code not in ninety_percents[i]:
                ninety_percents[i][region_code] = 1 # (0.5 mark)
            else:
                ninety_percents[i][region_code] += 1 # (0.5 mark)

print(ninety_percents)
```

##

Q-2)

```
#!/bin/bash

## (1 mark)
value1=$( lsb_release -d | grep -ic "Ubuntu" - )
value2=$( lsb_release -d | grep -ic "Red Hat" - )

## (1 mark)
if [ $value1 -eq 1 ]
then
  echo "Distribution:  Ubuntu"
  apt-get install $1
elif [ $value2 -eq 1 ]
then
  echo "Distribution:  Red Hat"
  yum install $1
else
  echo "Unknown distribution"
fi
```

##
Q-3)
./a.out 1> output.txt 2> error.txt #(1 mark)

##

Q-4)

$\int_{\sqrt[4]{\pi^2 56}}^{\alpha}f(x)dx = \frac{x_5}{y}$ #(1 mark)

##

Q-5)

(1 mark)

```
# (1 mark)
\documentclass{beamer}
\usetheme{Madrid}
\usepackage{graphicx}
\title[\LaTeX]{}
\author{FOSSEE}
\institute{IIT Bombay}
\date{10th Sept 2016}

\begin{document}

% (1 mark)
\begin{frame}
{Beamer image inclusion}
Only one slide in the presentation.
\includegraphics{Time_table_final.jpg}
\end{frame}

\end{document}
```