

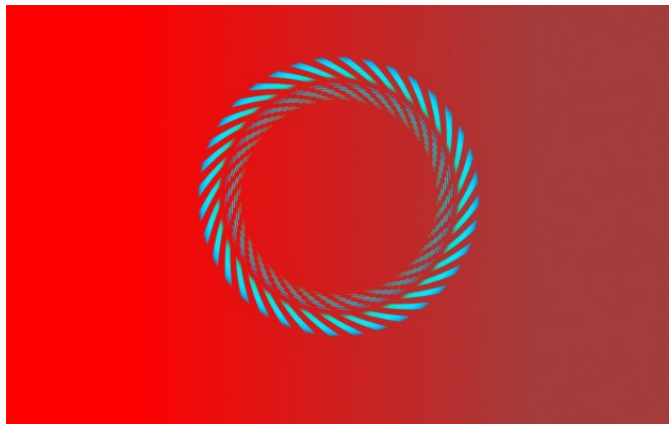
# Information Technology

## Sample Questions - Practical

Std 9 : English Medium

1. Prepare the given picture in GIMP.

- Prepare a Canvas in GIMP with 800x600 pixel size. Set the background with red and brown colours as in the given picture.
- Open the picture **trippy\_circle.jpg** from the folder **Images9** in Home through GIMP.
- Copy the blue coloured part in the picture using **Select by Colour Tool** and include it in the canvas where the two background colours meet as shown in the given picture.
- Export the picture into **png** format and save it in the folder Exam9 in Home with your Register Number\_Question Number as file name.



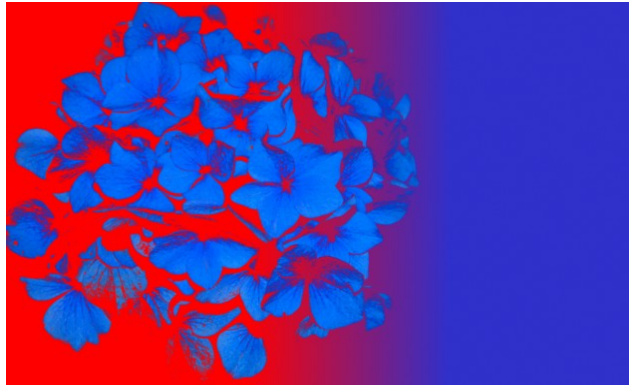
2. Prepare the given picture in GIMP using the following hints.

- Prepare a Canvas in GIMP with 800x600 pixel size.
- Insert the picture **new\_zealand.jpg** from the folder **Images9** in Home. Scale it into 800x600 pixel size. Set it as the background.
- **Open** the picture **storks.jpg** from the folder **Images9** in Home through GIMP.
- Copy the bird in the picture, include it in the canvas and **blur** it (Blur type- Motion Blur) as shown in the given picture .
- Export the picture into **png** format and save it in the folder Exam9 in Home with your Register Number\_Question Number as file name.



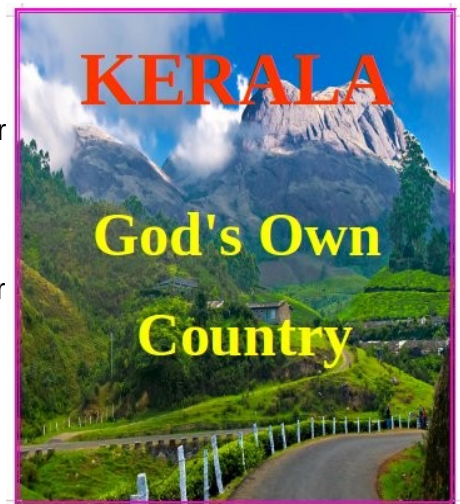
3. Prepare the given picture in GIMP.

- Prepare a Canvas in GIMP with 800x600 pixel size. Set the background with blue and red colours as in the given picture.
- **Open** the picture **hydrangea.jpg** from the folder **Images9** in Home through GIMP.
- Copy the blue coloured part in the picture using **Select by Colour Tool** and include it in the red coloured part of the canvas as shown in the given picture.
- Export the picture into **png** format and save it in the folder Exam9 in Home with your Register Number\_ Question Number as file name.



4. Prepare the given poster in Word Processor.

- Type the words and set them as in the example.
- Insert the picture **kerala.jpg** from the folder Images9 in Home.
- Set paragraph border and colour it.
- Save the file in the folder Exam9 in Home with your Register Number\_ Question Number as file name.



5. Prepare the given certificate in Word Processor.



- Type the words and set them as in the example.
- Insert the picture **mohiniyattam.jpg** from the folder Images9 in Home.
- Set page border and colour it.
- Save the file in the folder Exam9 in Home with your Register Number\_Question Number as file name.

6. Open the file **mahaswethadevi.odt** from the folder Exam\_documents in Home and do the following.
- Increase the font size of the Heading , colour the letters and Set it at the centre.
  - Make the picture large and set it below the heading.
  - Increase the font size of content and give suitable font colour.
  - Set **background colour** and **border** to the page.
  - Export the file in **PDF format** and save in the folder Exam9 in Home with your Register Number\_Question Number as file name. ( There is no need to save the file in odt format)

7. Some statements to prepare a Python program to check whether the score is eligible for A+ grade when you input the score is given. ( Hint: Score more than or equal to 90 is A+ )

- Put the given below statements in suitable places to complete the program.

```
print("You are qualified for Grade A+")  
print("You are not qualified for Grade A+")
```

- Type this program and save it in the folder Exam9 in Home with your Register Number\_ Question Number as file name.
- Run the program.

```
m=eval(input("Enter your Score:"))  
if(m>=90):  
else:
```

8. The given Python programs are to display the odd number from 101 to 199. The first program is created using **for loop** and the second one with **while loop**.

- Type the second program (Program 2) and save it in the folder Exam9 in Home with your Register Number\_ Question Number as file name. Run the program.
- Check whether the out put is correct or not.
- If not, correct the errors, save the program and run.

Program 1	Program 2
<pre>for n in range(101,200,2):     print(n)</pre>	<pre>n=101 while(n&lt;200):     print(n)     n=n+1</pre>

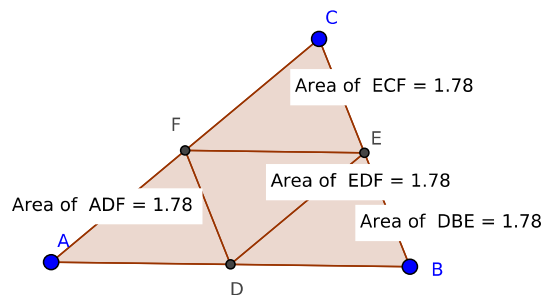
9. The given Python program is to display the multiples of 8 below 100. But there are some errors in it.

- Type the correct program and save it in the folder Exam9 in Home with your Register Number\_ Question Number as file name.
- Run the program.

```
for a in range(100,8)
    print(a)
```

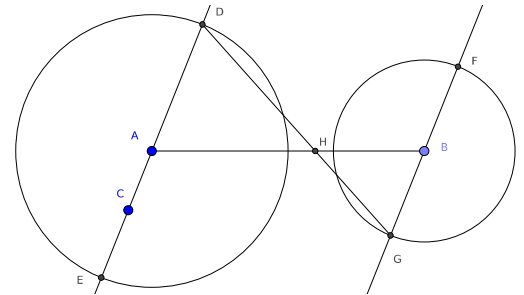
10. The given construction in the software GeoGebra shows how to divide a triangle into four equal parts. Draw it using the hints given.

- Draw the triangle ABC.
- Mark the midpoints of the sides AB, BC, CA and label them as D, E and F.
- Using the tool **Polygon** join the midpoints to create the triangles ADF, DBE, EDF and ECF.
- Mark the area of all the four triangles.
- Save the file in the folder Exam9 in Home with your Register Number\_ Question Number as file name.

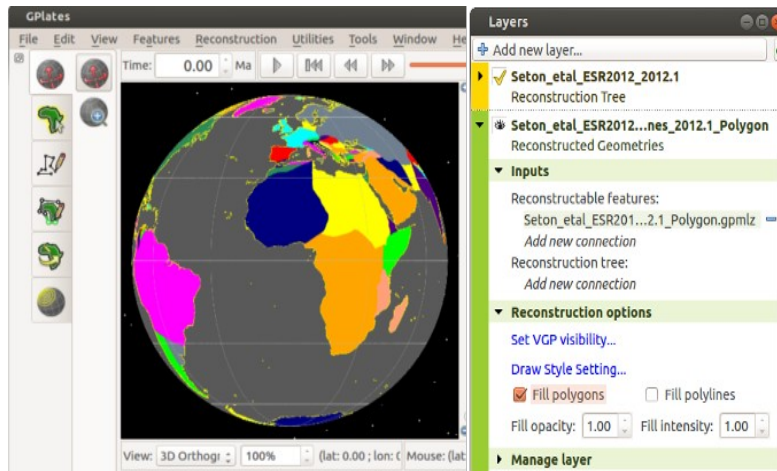


11. The given construction in the software GeoGebra shows how to divide a line in 3:2 ratio. Draw it using the hints given.

- Draw the line segment AB with 8 unit length.
- Draw the line AC and its parallel line through B.
- Draw a circle with A as center and 3 unit radius and another circle with B as center and 2 unit radius.
- Mark the intersecting points of each circle and the line passing through it and show their labels as D, E, F and G as in the given picture.
- Join one of the intersecting points of both the circles which lie opposite directions as in the given picture.
- Mark the intersecting point of this line and AB. Show its label as H.
- Save the file in the folder Exam9 in Home with your Register Number\_Question Number as file name.



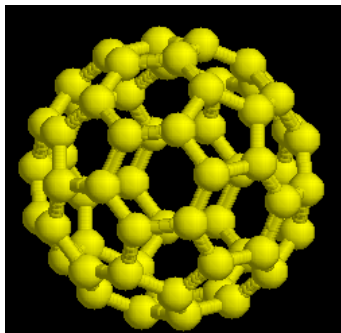
12.



Open the software Gplates. Using the following hints, play the animation of Continental Drift.

- Open the software Gplates.
- Include all the files in the folder **Shapefile** in Exam\_documents in Home through the option **Open Feature Collection**.
- Colour the continents.
- Play the animation of Continental Drift .
- Save it as a project file in the folder Exam9 in Home with your Register Number\_Question Number as file name.

13.



Display the molecular structure of Fullerene through the software RasMol and find out the number of carbon atoms in it.

Hints:

- Open the software RasMol (GTK version).
- Include the file **fullerene.pdb** from the folder pdb in Exam\_documents in Home.
- Display the molecular structure in **Ball & stick model**.
- find out the number of carbon atoms in Fullerene molecule.
- Change the colour of carbon atoms to **yellow**.
- Take the Screenshot of the window and save it in the folder Exam9 in Home with your Register Number\_Question Number as file name