# STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086 (For candidates admitted during the academic year 2008 – 09)

SUBJECT CODE: MT/PE/RP34

## M. Sc. DEGREE EXAMINATION, NOVEMBER 2009 BRANCH I - MATHEMATICS THIRD SEMESTER

**COURSE : ELECTIVE** 

PAPER : RESEARCH TECHNIQUES AND PROJECT MANAGEMENT TIME : 1 HOUR MAX. MARKS : 30

SECTION - A (2 X 8 = 16)

### ANSWER ANY TWO QUESTIONS

- 1. Write short notes on 'Motivation in research' and what are the types of research?
- 2. Explain about Good Research Design with one example.
- 3. Write brief notes on Secondary Data Collection and Data processing operations.
- 4. List the precautions in writing reports and what is meant by "Interpretation"?

#### SECTION - B (5 X 3 = 15)

#### **ANSWER ANY FIVE QUESTIONS**

- 5. Write HTML coding for listing your previous semester marks in a table.
- 6. Write VBscript coding for adding two numbers, receiving them as input from the user.
- 7. Name and explain about the types of Symbols in Flash.
- 8. Brief on basic action scripts in Flash.
- 9. What are the methods available to enhance the image using Photoshop?
- 10. Write short notes on tools available in Photoshop for image repairing.
- 11. What is the significance of form validations?
- 12. Differentiate between Static and Dynamic web pages.

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(PRACTICAL)

TIME : 80 minutes MAX. MARKS : 40

Design a two page web site for an Electronics Shop using frames and hyperlinks.
Upper frame in first web page must have the hyperlink for showing the second page.
Use images given to you.

- 2. Design a form for online purchase of the book 'Integral Calculus'. Validate the name field.
- 3. Design two scenes with the specification given.

Provide proper navigation between the scenes using buttons.

- Scene 1: Demo of text animation.
- Scene 2: Shape tween of a floral pattern.
- 4. Design a flash animation for moving and stopping a cycle along its hill path.
- 5. Design a brochure for the software training institute at Teynampet. Use filters while designing.
- 6. Create a 3D animation of a moving animal in a park.
- 7. Plot the surface and tangent at a point of

 $((b + a \cos u) \cos v, (b + a \cos u) \sin v, a \sin u), 0 \le u \le 2\pi, 0 \le v \le 2\pi.$ Also modify the view.

8. Trace the curve  $y^2(a + x) = x^2(3a - x)$  using MathCad.

