BRAINWARE UNIVERSITY

Course – MAMW

Advanced 3D Design and Sculpting - (MMW401A)

(Semester – 4)

Time allotted:3 Hours   **Full Marks : 70**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group –A

(Multiple Choice Type Questions)   10 x 1 = 10

1. *Choose the correct alternative from the followings*

(i)   What is shortcut for PAN in ZBRUSH software?

    a. hold CLT and right click drag   b. hold middle click and drag

    c. hold Alt and left click drag   d. none of these

(ii)   Which of the following is the file extension of a ZbrushTool file?

    a. .zbr   b. .ztm

    c. .ztl   d. None of the above

(iii) Which of the following button examines all materials used in the document?

    a. show used   b. show material

    c. reveal   d. none of these

(iv)   In which colour selector, hues are presented in the outside rim, and shadings and intensities are presented in the center?

    a. Gray   b. HSV

    c. Alternate   d. Gradient

(v)   Which of the following hotkey is used to switch between Zadd and Zsub?

    a. ALT   b. SHIFT

    c. CTRL   d. ALT+SHIFT

(vi)   Which of the following sets the thickness of the extracted mesh?

    a. thickness pointer   b. thickness extractor

    c. thickness Slider   d. none of The these

(vii)   Which button launches the retopology calculation for the visible portions of the selected SubTool?

    a. Keep Groups   b. Adaptive Size

    c. Freeze border   d. ZRemesher

(viii)   Which of the following is used to add a new sub tool to the list?

    a. append   b. insert

    c. both a & b   d. merge

(ix)   Which of the following determines how smooth the surface of the extracted mesh will be?

    a. S Smt slider   b. T Corner

    c. M smooth   d. S Smh slider

(x)   Which button enables blending between the Main and Secondary colors for certain operations?

    a. switch colour   b. alterNet

    c. gradient   d. none of the these

Group – B

(Short Answer Type Questions)   3 x 5 = 15

Answer any *three* from the followings

2. What is GOZ?   [5]

3. Discuss about the Use of Lightbox and Color Control.   [5]

4. What is the function of Draw Mode and see-through mode?   [5]

5. Discuss about the Dynamic Brush Size and Brush control.   [5]

6. Describe about Backward Compatibility of ZBrush Files.   [5]

Group – C

(Long Answer Type Questions)   3 x 15 = 45

Answer any *three* from the followings

7. (a) Describe Displacement maps   [8]

    (b) Discuss about Alpha in Zbrush.   [7]

8. (a) What is Zadd and Zsub ?   [8]

    (b) Define: Mrgb, RGB and M ?   [7]

9. (a) Describe Main Color and Secondary Color.   [8]

    (b) Describe Draw Size and Focal Shift.   [7]

10. (a) Describe about the Freeze border and Freeze Groups. [6]

    (b) What is Adaptive Size?   [5]

    (c) Illustrate Half, Same and Double buttons   [4]

11. (a) What is TCorner?   [2]

    (b) What is Del Other button?   [2]

    (c) Difference between Append and Insert Tool.   [6]

    (d) Explain Merge Down and Merge Visible?   [5]