

Total No. of printed pages = 4

AMT-403/3DM/4th Sem/2014/N

3D MODELING

Full Marks – 70

Pass Marks – 28

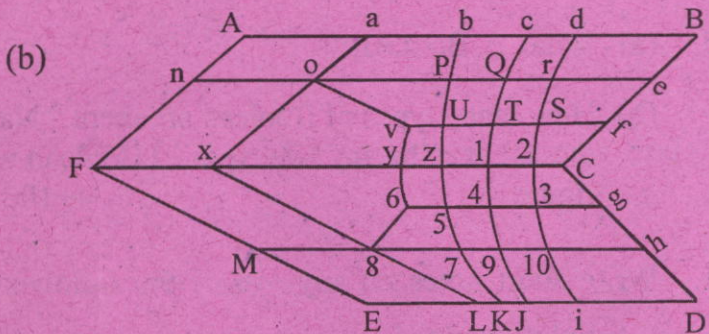
Time – Three hours

The figures in the margin indicate full marks for the questions.

Illustrate your answers with suitable sketches and examples wherever necessary.

A. Answer any *four* questions.

1. (a) What do you mean by NURBS ?



How many faces, vertex and edges are there and indicate it. $2+8=10$

(c) What do you mean by polygon model ? 4

[Turn over

2. (a) What is deformation ?
(b) When is lattice deformation used in modeling ?
(c) What do you mean by 3D modeling ?
 $4+6+4=14$
3. (a) What do you mean by Move tool, Rotate tool, Scale tool in Maya ?
(b) Briefly explain the different types of Move tool with diagram.
(c) Write a short note on Tool menu in Maya.
 $6+4+4=14$
4. (a) What is meant by Extrude ?
(b) What is the function of the Clt+A ?
(c) Define shelf tab in Maya. $5+4+5=14$
5. (a) What is Boolean ?
(b) How many types of Boolean are there ? Name them. Describe any two types of Boolean with figure. $4+10=14$
6. Write short notes on any *two* of the following :
(a) Subdivision
(b) Edit curves
(c) Split polygon tool. $7+7=14$

B. Answer any *one* question.

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- (i) How to convert NURBS model to polygon model ?
- (ii) What is the difference between polygon and NURBS ?

C. Multiple choice questions : $1 \times 5 = 5$

(a) What is the option in 3D that regenerate your final image or animation ?

- (i) Playing
- (ii) Save
- (iii) Generation
- (iv) Rendering.

(b) is the option to create a circle.

- (i) Shape
- (ii) Geometry
- (iii) Sphere
- (iv) Modify panel.

(c) MAYA is uses by

- (i) Casual game
- (ii) Video game developer
- (iii) Game programmer
- (iv) Game programming.

(d) Move tool, Rotate tool and Scale tool shortcut key.

- (i) A, B, F
- (ii) W, E, R
- (iii) G, H, J
- (iv) None of the above.

(e) Open Attribute Editor

- (i) Shift+6
- (ii) Alt+R
- (iii) Ctrl+A
- (iv) None of the above.