

Total No. of printed pages = 5

**AMT-403/3DM/4th Sem/2015/M**

### **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.

1. A. Choose the correct option :  $1 \times 5 = 5$

(a) A MAYA file saves as a ——— file.

(i) MAX

(ii) ASCII

(iii) STUDIO

(iv) MDS

[Turn over

(b) MAYA was initially developed by a company called \_\_\_\_.

- (i) Discreet
- (ii) Kinetic
- (iii) Auto desk
- (iv) 3Ds MAX

(c) MAYA is used by \_\_\_\_.

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

(d) What is the shortcut key for Movetools in MAYA ?

- (i) Alt
- (ii) W
- (iii) S
- (iv) E



(e) What is the shortcut key for duplicate in MAYA ?

(i) Ctrl + D

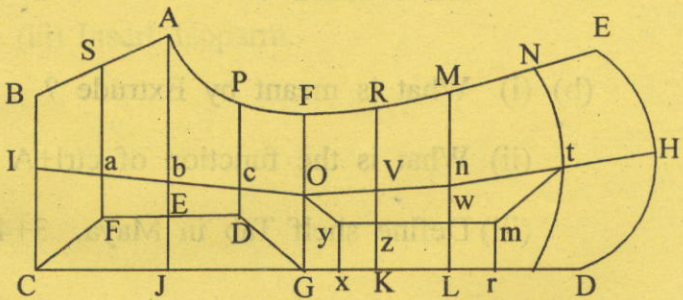
(ii) Alt + D

(iii) W + D

(iv) F + D

B. (a) What do you mean by 3D Modeling ?

(b)



Observe the diagram and indicate how many faces, vertex and edges are there in the diagram.  $2+3=5$

(c) (i) What is main menu bar in Maya ?

(ii) How would you save your work in Maya ?

(iii) What is Maya workspace ?

5+2+3=10

2. Answer any *five* questions :

(a) (i) What is the full form of NURBS ?

(ii) How to convert NURBS model to polygon model ?

(iii) What is the difference between polygon and NURBS ?

2+4+4=10

(b) (i) What is meant by Extrude ?

(ii) What is the function of ctrl+A ?

(iii) Define shelf Tab in Maya. 3+4+3=10

(c) (i) How the objects are duplicated ?

(ii) What is the role of import option in Maya ?

(iii) What do you mean by polygon ?

3+4+3=10



- (d) (i) What do you mean by Boolean ?
- (ii) How many types of Boolean are there ?  
Name them. Describe any two types of Boolean with figure.  $3+7=10$
- (e) Explain about split polygon tool and insert loop tools with diagram.  $5+5=10$
- (f) Write short notes on the following panels.  
(any *two*) :  $5+5=10$
- (i) Bevel
- (ii) Cut face tools
- (iii) Insert Isoparm.