

Total No. of printed pages = 4

AMT-403/3DM&T/4th Sem/2017/M

3D MODELING AND TEXTURING

Full Marks – 70

Pass Marks – 28

Time – Three hours

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

Illustrate your answer with suitable sketches and examples wherever necessary.

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

(a) A maya file saves as a file.

(i) Max

(ii) ASCII

(iii) Studio

(iv) ADS

(b) Which one polygon is primitive ?

(i) Square

(ii) Pyramid

(iii) Light

(iv) Camera

[Turn over

(c) Image made up of thousands of pixels and called

- (i) Bitmap (ii) Vector
(iii) Color (iv) Graphics

(d) Automatic mapping is a

- (i) Projection (ii) Project
(iii) Image (iv) File

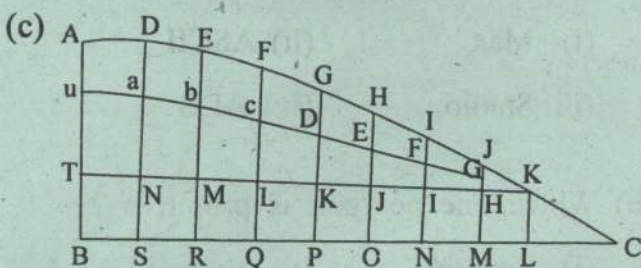
(e) Which menu we will get Bevel option in MAYA ?

- (i) Mesh (ii) Edit mesh
(iii) Selet (iv) None of the above

2. Answer the following questions : 2+2+1=5

(a) What do you mean by texturing ?

(b) Write a note on Bitmap.



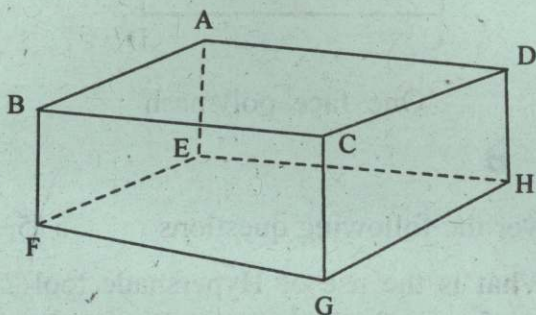
Observe the diagram and indicate how many faces, vertex and edges are there in the diagram.

3. Answer the following questions : $3+5+12=20$

(a) What do you mean by Boolean ?

(b) How many types of Boolean are there ?
Name them. Describe any two types of Boolean with figure.

(c)



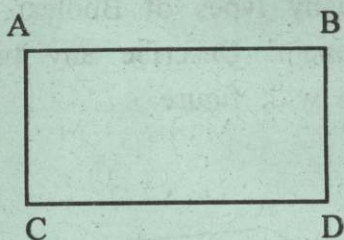
The diagram of CUBE based on 12 edges.
How and which option is applicable on this cube to create 48 edges and faces 26.
Describe step by step in your words.

4. Answer the following questions : $2+6+12=20$

(a) What is the full form of NURBS ?

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

- (c) The one face polymesh is given below. How and which option is applicable on this polymesh to create 7 polygon mesh?



One face polymesh

5. Answer the following questions : $5+5+10=20$

- (a) What is the use of Hypershade tool? Name a few of the materials found in the hypershade under Maya.
- (b) What do you mean by UV mapping? How many types of mapping are there? Name them.
- (c) According to you, triangle mesh / four sides mesh, which will be suitable to create a character model is the Production House? Give reasons for your answer.