Total No. of printed pages = 3		YAMY Y	S ANHUNG	
BMD 171503			SAMMAN CATALOGUE	
Roll No. of	candidate			
2019				
B.Des. 5th Semester End-Term Examination				
Multimedia Communication and Design				
COMPUTER GENERATED LIGHTING AND RENDERING				
Full Marks – 70		Time-T	Time – Three hours	
The figures in the margin indicate full marks for the questions. Answer Question No. 1 and any four from the rest.				
		$10 \times 1 = 10$		
(i)	is the observer experiences	shadow region	where an	
(ii)	Colour wheel is base model.			
(iii)	White, black and colours.	grey are consid	lered to be	
(iv)	Black colour radiate	s lig	ht.	
(v)	In 3-point light distinguishes the ob-	nting ject from the ba	light ckground.	
(vi)	The default render Settings is the	erable camera camera.	in Render	
			[Turn over	

- (vii) The attribute which determines how much light is emitted from the light source is called
- (viii) Shadows light does not have Depth Map
- (ix) Hypershade is located under Window> Editors.
- X The key combinations to create shortcuts of tools on shelves is
- 2 (a) What are the natural sources of light? 8
- 3 them briefly. What are the types of colour theory? Describe (1+6=7)
- ω (a) How can you differentiate between natural
- 3 Describe Ambient Light and Area Light with examples.
- 0 examples.

 What is Negative Intensity and why is it used (5)
- 4 (a) Describe any 5 attributes of a spot light. (10)
- 3 What are the different types of Light-linking? Describe them briefly.
- 5 (a) Why are lighting? rendering passes important in 5
- **a** Describe the following render passes: $(2 \times 5 = 10)$
- Ξ **Shadow Pass**
- Ξ Z-Depth Pass.

- 6. (a) What are the steps to enable Mental Ray plugin
- (3) in Maya? What are the key inputs for lighting a 3D scene for production?
- -7 Write short notes on the following:
- $(5 \times 3 = 15)$
- (a)
- Hypershade
- **6** Artifacts

(C)

Penumbra Angle

- (a) Photons.
- (e) Colour Bleeding.

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