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BACHELOR OF ARTS IN 3D ANIMATION AND VISUAL EFFECTS Term-End Theory Examination December, 2017 BNMI-011 : CHARACTER ANIMATION Time : 1½ hours Maximum Marks : 30 Note : Attempt all questions.

The following section has objective type questions. Choose the right answer. Each question carries 1 mark.

- Reflection is divided into three types : diffuse, 1
 _____ and glossy.
 - (a) shiney
 - (b) highlight
 - (c) specular
- 2. Diffuse refraction scatters light in single angle. 1
 - (a) True
 - (b) False
- 3. If you render a scene without a light, Maya creates 1 ______ light during render.
 - (a) point
 - (b) spot
 - (c) directional

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- You can _____ lights with surfaces so that 1 only a specific light illuminates a specific surface.
 - (a) link
 - (b) attach
 - (c) group
- 5. Shadows help to define the _____ of an 1 object.
 - (a) shape
 - (b) world position
 - (c) location
- A depth map represents the ______ from a 1 specific light to the surfaces the light illuminates.
 - (a) distance
 - (b) angle
 - (c) length
- 7. ______ is a type of shadow rendering where 1 the path of individual light rays are calculated.
 - (a) Path tracing
 - (b) Ray tracing
 - (c) Light tracing
- if necessary, is used to distinguish 1 the character, objects from the background.
 - (a) Backlight
 - (b) Background light
 - (c) Fill light

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Hard light produces ______ shadow lines.

1

1

1

- (a) Diffuse
- (b) Soft

9.

(c) Sharp

10. Mental ray can render with _____, the light 1 effects that caused by specular reflected or refracted light.

- Final Gather (a)
- (b) Caustics
- (c) Global Illumination
- 11. Which light does not have a decay rate ?
 - (a) Spot light
 - (b) Point light
 - Directional light (c)
- A directional light uses parallel rays of light. 12.
 - (a) True
 - (b) False
- Area lights are _____ based and there is no 13. 1 need for a decay option.
 - (a) real time
 - (b) calculation
 - (c) physically

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P.T.O.

- 14. A spot light shines a beam of light evenly within 1 a narrow range of directions that are defined by
 - a _____.
 - (a) triangle
 - (b) cone
 - (c) cube
- No mask or _____ channel is produced for 1 the specular pass.
 - (a) Alpha
 - (b) RGB
 - (c) Color

Answer the following questions in brief. Each question carries 5 marks.

- What is the difference between Depth Map and 5 Raytraced shadow ? Explain with proper examples.
- Explain the concept of Final Gather. How does it 5 work in Maya ?
- Define any two of the following lights with one 5 example of each in the real world :
 - (a) Directional Light
 - (b) Area Light
 - (c) Spot Light

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