# BACHELOR OF ARTS IN 3D ANIMATION AND <br> <br> VISUAL EFFECTS 

 <br> <br> VISUAL EFFECTS}

## Term-End Theory Examination <br> December, 2017

## BNMI-011 : CHARACTER ANIMATION

Time : $\mathbf{1}^{1 / 2}$ hours
Maximum Marks : 30
Note: Attempt all questions.

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

1. Reflection is divided into three types: diffuse,
$\qquad$ and glossy.
(a) shiney
(b) highlight
(c) specular
2. Diffuse refraction scatters light in single angle.
(a) True
(b) False
3. If you render a scene without a light, Maya creates 1 $\ldots$ light during render.
(a) point
(b) spot
(c) directional
4. You can $\qquad$ lights with surfaces so that only a specific light illuminates a specific surface.
(a) link
(b) attach
(c) group
5. Shadows help to define the $\qquad$ of an 1 object.
(a) shape
(b) world position
(c) location
6. A depth map represents the $\qquad$ from a 1 specific light to the surfaces the light illuminates.
(a) distance
(b) angle
(c) length
7. $\qquad$ 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
8. _, if necessary, is used to distinguish 1 the character, objects from the background.
(a) Backlight
(b) Background light
(c) Fill light
9. Hard light produces $\qquad$ shadow lines.
(a) Diffuse
(b) Soft
(c) Sharp
10. Mental ray can render with $\qquad$ the light 1 effects that caused by specular reflected or refracted light.
(a) Final Gather
(b) Caustics
(c) Global Illumination
11. Which light does not have a decay rate?
(a) Spot light
(b) Point light
(c) Directional light
12. A directional light uses parallel rays of light.
(a) True
(b) False
13. Area lights are $\qquad$ based and there is no 1 need for a decay option.
(a) real time
(b) calculation
(c) physically
14. A spot light shines a beam of light evenly within a narrow range of directions that are defined by a $\qquad$ .
(a) triangle
(b) cone
(c) cube
15. No mask or $\qquad$ 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.

1. What is the difference between Depth Map and 5 Raytraced shadow ? Explain with proper examples.
2. Explain the concept of Final Gather. How does it 5 work in Maya?
3. 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
