BACHELOR OF ARTS IN 3D ANIMATION AND **VISUAL EFFECTS**

Term-End Theory Examination December, 2017

BNM-001: ANIMATION PRODUCTION

PIPELINE							
Time: 3 hours Maximum Marks: (Weightage 10							
Note	:	Attempt a	ll quest	ions.			
		e select rig		n has objectivers. Each			
1.	In 3I cons	ists of all	particl	le system	in Par ined i	ticle Flow n Particle	2
	(a)	Comman	ds				
	(b)	Tools					
	(c)	Flows					
2.	is ar gene	n existing erates spav	particl vn par	le from w ^l ticles.	hich tl	particle	2
	(a)	parent	(b)	master	(c)	child	
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3.	Op		s a			Birth Paint ference for	2	
	(a) Particle Paint helper(b) Paint helper							
	(c)	Particle	helper	•				
4.	In 3	DS Max Pa	ırticle	Flow, the f	irst eve	ent is called	2	
	(a)	Global	(b)	Local	(c)	Master		
5.	In 3	DS Max, th	ie part	icles first a _·	ppear a	at an object	2	
	(a)	Particle 9	Spawr	nner				
	(b)	Generato	r					
	(c)	Emitter						
6.	In 3 crea Syst	tion of pa	he rticles	within th	operate he Par	or enables ticle Flow	2	
	(a)	Birth	(b)	Script	(c)	Spawn		
7.		DS Max Pa ator to rer					2	
	(a)	Destroy	(b)	Remove	(c)	Delete		

8.	In 31	DS Particle	Flow	,	op	erator to	2		
	cont	rol the initia	al plac	cement of	particle	es on the			
	emit								
	(a)	Position Ic	on						
	(b)	Position							
	(c)	Icon							
9.		OS Max Part					2		
	Lets	you set ar	id ani	imate part	icle or	ientation			
	duri	ng an event							
	(a)	Rotate							
	(b)	Spin							
	(c)	Rotation							
10.	In 3	DS Max Par	ticle F	low, the		_ operator	2		
	lets	In 3DS Max Particle Flow, the operator 2 lets you set and animate particle size during an							
	eve	nt.							
	(a)	Size	(b)	Shape	(c)	Scale			
11.	In 3	DS Max, the	e	spac	e warp	simulates	2		
		effect of na							
	(a)	Uniform	(b)	Gravity	(c)	Earth			
12.	In 3	BDS Max, th	ie	sp	ace wa	rp applies	2		
	a force to particle systems, spining them through								
	a whirling vortex.								
	(a)	Rotate	(b)	Spin	(c)	Vortex			
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13.		BDS Max, tl lanar shield				arp acts as	2
	(a)			Collider		Repeller	
14.		Maya, Parti lots, streaks					2
	(a)	Objects					
	(b)	Points					
	(c)	Elements					
15.		Maya, you aining a sii			partic	le objects	2
	(a)	True	(b)	False			
16.		laya, a part			_		2
	(a)	Shape	(b)	Motion	(c)	Speed	
17.		Iaya, Point					2
.4	(a)	Particles				Curves	
18.		aya,om, evenly					2
	(a)	Curve	(b)	Path	(c)	Line	
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19.	In M	laya, a		_ is an o	bject tha	t particles	2		
	follows or move towards.								
	(a) Target geometry(b) Target Mesh								
	(c)	Goal							
20.		Maya, you			•	•	2		
	surfa	aces.							
	(a)	React	(b)	Hit	(c)	Collide			
21.	In M	laya, Hard	ware	rendered	l particl	es have a	2		
	rend	er type of	-	•					
	(a)	Points	(b)	Cloud	(c)	Tube			
22.	In M	laya, you ca	n add	and set _		attributes	2		
	for the three RGB components of the color.								
	(a)	Shading g	group						
	(b)	Per partic	le						
	(c)	Per object	,						
23.	In M	laya, you c	an giv	ve particle	es a	to	. 2		
	make them disappear from the scene.								
		Lifespan			(c)	Life			
24.	In M	laya, you c	an sin	nulate the	motion	of natural	2		
	forces with dynamic								
		Motion				Goals			
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(a)	Flexible (b) Spring (c) Rigid						
	Maya, Fluid Effects also includes an for creating realistic open water.						
(a)	Liquid Shader						
(b)	Ocean Shader						
(c)	Water Shader						
	Maya, ncloth is generated from						
pol	ygon meshes.						
(a)	Random						
(b)	Modeled						
(c)	Sequential						
	Realflow, "" is Realflow's standard						
settings and provides parameters for all watery							
	nigh-viscous substances.						
(a)	Gas (b) Liquid (c) Dumb						
	Realflow, "" is defined as mass per						
volume unit and is expressed in Kilograms per							
	vic metre (Kg/m³).						
(a)	Density						
(b)	Resolution						
(0)	Thickness						

25. In Maya, you can recreate a geometric object as a 2

In Realflow _____ tries to limit a fluid's 30. 2 expansion tendency. Int Pressure (a) (b) Ext Pressure Surface Tension (c) Answer the below questions with a detailed diagram / flow chart. Each question carries 10 marks: 10 Explain the production process involved in 1. creating a "Raindrops Simulation" in 3DS Max with particle system. Describe the production process and integration 2. 10 between Maya / Max and Realflow for the below examples. Filling a wine glass with wine (CG wine (a) using Realflow). Filling a 3D bowl with liquid chocolate (b) (CG chocolate using Realflow). Explain the step wise process involved to create a 3. 10 realistic simulation of a Building Collapse using Maya Rigid Body dynamics. Define Gravity field and Turbulance field in Maya 4. 10

and explain their usage in brief.