3D ANIMATION

Full Marks – 70

Time – Three hours

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

PART – A

1. (A) Multiple choice questions : 5×1=5

(i) Which one of the following is considered to be an animation principle ?

(a) Spacing (b) Overlapping

(c) Anticipation (d) All of the above

(ii) One of the following is a difference between a run cycle and a walk cycle :

(a) Run cycle has more dynamic pose.

(b) Feet in run cycle might lose the contact to the ground.

(c) Situation of the hands in run cycle are more bending.

(d) All of the above.

[Turn over

(iii) One of the following is not a curve tangent type:

(a) Incline tangent   (b) Flat tangent

(c) Linear tangent   (d) Spline tangent

(iv) We can adjust animation curves inside a window panel called :

(a) Track editor   (b) Key editor

(c) Graph editor   (d) Curve editor

(v) The first control we should move and position to get a proper pose is :

(a) The legs controls

(b) The pelvic controls

(c) The head controls

(d) None of the above.

(B) Fill in the blanks :   5×1=5

(i) A _____ is a series of sketches that can be used as a good guide for making an animation.

(ii) _____ is a 3D representation of a live performance.

(iii) Most object needs time to accelerate and slow down, this is the principle of _____.

(iv) A simple form of stop motion animation using pliable material to create movement is called _____.

(v) The Oscar nominated animated movie "Avatar" used the _____ animation technique.

2. Answer any *five* of the following questions :

$3 \times 5 = 15$

(a) What are key frames ?

(b) What do you mean by anticipation ?

(c) What is acting and action ?

(d) What is lip syncing ?

(e) What is kinesphere ?

(f) What do you mean by body language ?

PART – B

3. Answer any *three* of the following questions :

$3 \times 10 = 30$

(a) "Proper weight and balance are important to consider while animating a character." Justify the statement. 10

(b) "It is always a good idea to plan the action while animating a scene with a series of thumbnail sketches." Explain with a proper example. · 10

(c) Explain the Laban Movement Theory and its eight basic efforts. 2+8=10

(d) What are the key principles to consider while animating a character with lip sync scene ? Explain in brief with proper diagram. 10

4. Answer any *one* of the following questions :

(a) Explain in brief about the following body postures with appropriate diagram for each.

(i) Open body and closed body

(ii) Forward and backward

(iii) Responsive

(iv) Reflective

(v) Fugitive 5×3=15

(b) Draw and explain the key positions of a character lifting heavy weight with proper illustration. 8+7=15