

U-V

1. The shape of the Bezier curve is controlled by _____ .
(A) control points
(B) knots
(C) end points
(D) all the above
2. When a smooth curve is approximated through the data points, then the curve is known as
(A) interpolant curve
(B) Approximation curve
(C) pitch curve
(D) data curve
3. The slope of line segment is represented by
(A) dy/dx
(B) dx/dy
(C) x/y
(D) y/x
4. The B-spline curve has a
(A) first-order continuity
(B) second-order continuity
(C) zero-order continuity
(D) none of the above
5. In the Bezier curve, the curve is always _____ to first and last segments of the polygon.
(A) normal
(B) parallel
(C) tangent
(D) none of the above
6. _____ curves allow local control of the curve.
(A) Analytical

(B) Hermite cubic spline

(C) Beizer

(D) B-Spline

7. In Bezier Curve, the curve follows _____.

(A) the control points

(B) the shape of the defining polygon

(C) the defining points

(D) none of the these

8. In Bezier Curve, _____ of polygon actually lie on the curve.

(A) only the first control point

(B) only the last control point

(C) only the first and last control points

(D) all the control points

9. The number of control points can be added or subtracted in _____.

(A) Bezier curve

(B) B-spline curve

(C) Cubic spline curve

(D) all of the above

10. The basic parameter to curved attributes are

a) Type

b) Width

c) Color

d) All of the mentioned

11. The degree of the Bezier curve with n control points is:

a) $n + 1$

b) $n - 1$

c) n

d) $2n$

12. The degree of the B-spline with varying knot vectors:

a) **Increases with knot vectors**

b) Decreases with knot vectors

- c) Remains constant
- d) none of the mentioned

13. The hilbert curve is a _____ curve.

- A. Space Fit
- B. **Space Filling**
- C. Space
- D. None of these

14. Hilbert curve in image processing is used for _____

- A. **Image compression and dithering**
- B. Image processing technique
- C. Compression technique
- D. None of these

15. The Hilbert curve first approximation will divide square into ____ quadrant

- A. 2
- B. 3
- C. **4**
- D. 5

16. Which feature is correct in Hilbert curve

- A. Curve never cross it self
- B. Curve fill the square
- C. There is no limit of length
- D. **All of these**

17. The Koch curve can be drawn by dividing line in to ____ equal segments.

- A. 1
- B. 2
- C. 3
- D. **4**

18. The properties of Bezier curve is

- A. Basic function are real
- B. It follow shape of polygon
- C. **Both basic function and follow shape of polygon**
- D. None of these