

1. With the data in the given figure,  $\triangle OPR \cong \triangle QPR$  by which property?



- (i) ASA Congruency (ii) RHS Congruency (iii) SAS Congruency (iv) not congruent (v) SSS Congruency
- 2. With the data in the figure,  $\triangle CDF \cong \triangle DCE$  by which property?



(i) not congruent (ii) ASA Congruency (iii) SSS Congruency (iv) RHS Congruency (v) SAS Congruency

3. With the data in the given figure,  $\triangle GJH \cong \triangle GJI$  by which property?



(i) SAS Congruency (ii) RHS Congruency (iii) ASA Congruency (iv) not congruent (v) SSS Congruency

4. With the data in the figure,  $\triangle BDE \cong \triangle BDC$  by which property?



- (i) SSS Congruency (ii) not congruent (iii) ASA Congruency (iv) SAS Congruency (v) RHS Congruency
- 5. In the given figure,  $\triangle$ FGH  $\cong \triangle$ SRQ. Which of the following are true?



6. With the data in the figure,  $\triangle HJK \cong \triangle JHI$  by which property?



(i) SSS Congruency (ii) SAS Congruency (iii) ASA Congruency (iv) not congruent (v) RHS Congruency

7. With the data in the given figure,  $\triangle PGH \cong \triangle QHG$  by which property?



(i) SSS Congruency (ii) ASA Congruency (iii) SAS Congruency (iv) RHS Congruency (v) not congruent

8. With the data in the figure,  $\triangle AED \cong \triangle BEC$  by which property?



- (i) ASA Congruency (ii) SSS Congruency (iii) RHS Congruency (iv) SAS Congruency (v) not congruent
- 9. With the data in the figure,  $\triangle AOB \cong \triangle COD$  by which property? D C



- (i) ASA Congruency (ii) not congruent (iii) SSS Congruency (iv) RHS Congruency (v) SAS Congruency
- 10. With the data in the given figure,  $\triangle CDG \cong \triangle CEF$  by which property?



(i) SSS Congruency (ii) ASA Congruency (iii) not congruent (iv) RHS Congruency (v) SAS Congruency

11. With the data in the given figure,  $\triangle IKJ \cong \triangle JLI$  by which property?



(i) not congruent (ii) ASA Congruency (iii) SAS Congruency (iv) SSS Congruency (v) RHS Congruency

12. With the given data in the figure,  $\triangle VCD \cong \triangle UDC$  by which property?



(i) RHS Congruency (ii) SAS Congruency (iii) not congruent (iv) SSS Congruency (v) ASA Congruency

- 13. Which of the following are true?
  - a) Area of a convex polygonal region is equal to the sum of the areas of all triangles formed by joining the vertices of the polygon with an interior point.
  - b) A polygonal region can be divided into a finite number of triangles in a unique way.
  - c) Area of the union of two polygonal region is not equal to the sum of the individual area.
  - d) Area of the union of two polygonal region is the sum of the individual area.

(i) {b,d,a} (ii) {a,c} (iii) {b,a} (iv) {d,c} (v) {b,c,a}

14. With the data in the figure,  $\triangle LOM \cong \triangle NOM$  by which property?



(i) ASA Congruency (ii) SAS Congruency (iii) RHS Congruency (iv) SSS Congruency (v) not congruent

15. In the given figure, which pair of triangles are not congruent ?



16. With the data in the given figure,  $\triangle PQS \cong \triangle QPR$  by which property?



(i) SSS Congruency (ii) RHS Congruency (iii) not congruent (iv) ASA Congruency (v) SAS Congruency

17. With the data in the figure,  $\triangle OPS \cong \triangle OQT$  by which property?



(i) SSS Congruency (ii) ASA Congruency (iii) not congruent (iv) SAS Congruency (v) RHS Congruency

18. With the data in the given figure,  $\triangle OIH \cong \triangle OGF$  by which property?



(i) SAS Congruency (ii) ASA Congruency (iii) RHS Congruency (iv) SSS Congruency (v) not congruent

19. In the given figure, which of the following is true?



(i)  $\triangle KMN \cong \triangle MKL$  (ii)  $\triangle KNM \cong \triangle LMK$  (iii)  $\triangle KNM \cong \triangle KLM$  (iv)  $\triangle KMN \cong \triangle KML$  (v)  $\triangle KMN \cong \triangle KLM$ 

20. With the data in the figure,  $\triangle$ FIG  $\cong \triangle$ HIG by which property?



(i) SSS Congruency (ii) RHS Congruency (iii) ASA Congruency (iv) not congruent (v) SAS Congruency

21. In the given figure, which pair of triangles are not congruent ?



22. In the given figure,  $\triangle EFG \cong \triangle QRS$ . Which of the following are true?



23. With the data in the given figure,  $\triangle BCE \cong \triangle BDE$  by which property?



(i) SSS Congruency (ii) ASA Congruency (iii) not congruent (iv) RHS Congruency (v) SAS Congruency

24. With the data in the figure,  $\triangle GOH \cong \triangle IOJ$  by which property?



(i) RHS Congruency (ii) not congruent (iii) SAS Congruency (iv) SSS Congruency (v) ASA Congruency

25. In the given figure,  $\triangle ABC$  is an obtuse angled triangle.  $\triangle ABD \cong \triangle CBD$  by which property?



(i) not congruent (ii) ASA Congruency (iii) SAS Congruency (iv) SSS Congruency (v) RHS Congruency

Assignment Key					
1) (iv)	2) (i)	3) (v)	4) (ii)	5) (i)	6) (iv)
7) (iii)	8) (v)	9) (ii)	10) (iv)	11) (v)	12) (i)
13) (ii)	14) (v)	15) (iv)	16) (iii)	17) (iii)	18) (ii)
19) (i)	20) (iv)	21) (i)	22) (iv)	23) (iv)	24) (ii)
25) (iv)					

Copyright © Small Systems Computing Pvt. Ltd.