01. Refraction correction

- a. Completely eliminates curvature correction
- b. Partially eliminates curvature correction
- c. Adds to the curvature correction
- d. Has no effect on curvature correction
- 02. The R.L of the point A which is one the floor is 100 m and backsight reading on A is 2.455 m. if the foresight reading on the point B which is on the ceiling is 2.745 m the R.L of point B will be
- a. 94.80 m
- b. 99.71 m
- c. 100.29 m
- d. 105.20 m
- 03. As applied to staff reading, the corrections for curvature the refection are respectively
- a. + and -
- b. and +
- c. + and +
- d. and -
- 04. Which of the following arithmetic checks can be applied in rise and fall method?
- a. $\Sigma B.S. \Sigma F.S. = \Sigma Rise \Sigma Fall only$
- b. Σ B.S. Σ F.S. = last R.L. -First R.L. only
- Σ Rise Σ Fall =Last R.L. First R.L only
- d. Σ B.S Σ F.S. = Σ Rise Σ Fall =Last R.L - First R.L
- 05. What is the arithmetic error in the following table? H.I R.L Remarks 102.00 101.00 B.M I.S F.S H.I .S. 2.00 1.00 0.50 102.50
 - a. The R.L of B.M should be 100.00.
 b. The height of instrument (H.I) should be 103.00.
 c. The backsight should be 1.00.
 d. There is no error in the table.
- 06. The following consecutive reading were taken with a damply level : 0.695. 1.525, 2.395, 0.635, 0.605, 0.805, 0.125 the instrument was shifted after the third and fifth reading the reading 2.395 and 0.635 respectively represent
- a. F.S and B.S
- b. F.S and I.S
- c. B.S and F.S
- d. I.S and B.S

- 07. In question no. 89, the number of station is
- a. 2
- b. 5
- c. 6
- d. 7
- 08. In question no. 89, the R.L of last point
- a. Is greater than R.L of first point (G)
- b. Is same as R.L of first point
- c. Is smaller than R.L of first point
- d. Cannot be determined from the given data
- Remarks 2.30 100.00 .M. 1.30 The above table show a part of a level field book. The value of X should be
- The correction for refraction as applied to staff reading is
- 11. The following consecutive reading were taken with a dumpy level and a 3 m staff on a continuously sloping ground. 0.425, 1.035, 1.950, 3.360, 2.950, 0.750, 1.565, 2.450, 0.320, 1.025, 2.165, 2.955 which of the following readings are backsights
- a. 0.425, 2.950, 0.750, 0.320
- b. 0.425, 0.750, 0.320, 2.955
- c. 0.425, 0.750, 0.320
- d. 0.425, 2.360, 0.750, 0.320
- 12. A level was set up at a point A and distance to the staff station B was 100 m. the net combined correction due to curvature and refraction as applied to the staff reading is
- a. 0.00673 m
- b. 0.000673 m
- c. 0.000673 m
- d. 0.00673 m

13. In leveling between two points A and B on opposite banks of a river, the following readings were taken

Level	Staff readings	
position	A	В
A	1.500	1.000
В	1.350	0.850

If R.L of A is 100.00 m, the R.L of B

- a. Is less than 100.00 m
- b. Is more than 100.00 m
- c. Is 100.00 m
- d. Cannot be determined from given data
- 14. While doing leveling in undulating terrain, it is preferable to set the level on
- a. The top of summit
- b. The bottom of a valley
- c. One side of the slope
- d. anywhere
- If the horizontal distance between the staff point and the point of observation is d, then the error due to curvature of earth is proportional to
- b. 1/d
- c. d²
- d. 1\d2
- 16. Sensitiveness of a level tube is designated by
- a. Radius of level tube
- b. Length of level tube
- c. Length of bubble of level tube
- d. None of the above
- 17. Select the correct statements:
- a. Error due to refraction may not be completely eliminated by reciprocal leveling.
- b. Tilting levels are commonly used for precision work.
- c. The last reading of leveling is always a foresight.
- d. All of the above statements are incorrect.

18. Select the correct statements.

- a. In leveling a station is the point where the leveling staff is held and not where level is set up.
- b. The inner surface of a bubble tube is an are of a circle.
- Sensitiveness of a level tube can be increased by the increase in length of bubble.
- d. All of the above statements are correct.

19. The distance to the visible horizon from a height of 36 m above mean sea level is given by

a.
$$\sqrt{\frac{36}{0.6735}} km$$

b.
$$36\sqrt{\frac{1}{0.06735}}km$$

c.
$$\sqrt{\frac{36}{0.06735}} km$$

d. $36\sqrt{0.06735} \ km$

20. Dumpy level is most suitable when

- a. The instrument is to be shifted frequently
- b. Fly leveling is begin done over long distance
- Many readings are to be taken from a single setting of the instrument
- d. All of the above



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