- 01. Which of the following errors is not eliminated by the method of repetition horizontal angle measurement
- a. Error due to eccentricity of verifiers
- b. Error due to displacement of station signals
- c. Error due to wrong adjustment of line of collimation and trunion axis
- d. Error due to inaccurate graduation
- 02. The error due to eccentricity of inner and outer axes can be eliminated by
- a. Reading both venires and taking the mean of the two
- b. Taking both face observations and taking the mean of the two
- c. Double sighting
- d. Taking mean of several readings distributed over different portions of the graduated circle
- 03. In the double application of principle of reversion, the apparent error is
- a. Equal to true error
- b. Half the true error
- c. Two times the true error
- d. Four times the true error
- 04. Which of the following errors can be eliminated by taking mean of both face observations?
- a. Error due to imperfect graduations
- b. Error due to eccentricity of venires
- c. Error due to imperfect adjustment of plate levels
- d. Error due to line of collimation not being perpendicular to horizontal axis
- 05. Which of the following errors cannot be eliminated by taking both face observations?
- a. Error due to horizontal axis not being perpendicular to the vertical axis
- b. Index error i.e error due to imperfect adjustment of the vertical circle vernier
- c. Error due to non-parallelism of the axis of telescope level and and line of collimation
- d. None of the above

- 06. If a tripod settles in the interval that elapses between taking a back sight reading and the following foresight reading, then the elevation of turning point will
- a. Increase
- b. Decrease
- c. Not change
- d. Either 'a' or 'b'

07. If altitude bubble is provided both on index frame as well as on telescope of a theodolite, then the instrument Is leveled with reference to i) altitude bubble on index frame ii) altitude bubble on index frame if it is to be used as a level

iii) altitude bubble on telescope iv) altitude bubble on telescope if it is to be used as a level the correct answer as

- a. Only (i) b. Both (i) and (iv)
- c. Only (iii) d. Both (ii) and (iii)
- 08. A 'level line' is a
- a. Horizontal line
- b. Line parallel to the mean spheriodal surface of earth
- c. Line passing through the centre of cross hairs and the centre of eye piece
- d. Line passing through the objective lens and the eyepiece of a dumpy or tilting level
- 09. The following sights are taken on a "turning point"
- a. Foresight only
- b. Backsight only
- c. Foresight and backsight
- d. Foresight and intermediate sight
- 10. The rise and fall method of leveling provides complete check on
- a. Backisight
- b. Intermediate sight
- c. Foresight
- d. All of the above

- 11. If the R.L of a B.M is 100.00 m, the back- sight is 1.215 m and the foresight is 1.870 m, the R.L of the forward station is
- a. 99.345 m
- b. 200.345 m
- c. 100.655 m
- d. 101.870 m
- 12. In an internal focusing type of telescope, the lens provide
- a. Concave
- b. Convex
- c. Plano-convex
- d. Plano-concave
- 13. Which of the following errors can be neutralised by setting the level midway between the two stations?
- a. Error due to curvature only
- b. Error due to refraction only
- c. Error due to both curvature and refraction
- d. None of the above
- 14. Heigh of instrument method of leveling is
- a. More accurate than rise and fall method
- b. Less accurate than rise and fall method
- c. Quicker and less tedious for large number of intermediate sights
- d. None of the above
- 15. The rise and fall method
- a. Is less accurate than height of instrument method
- b. Is not suitable for leveling with tilting levels
- c. Provides a cheak on the reduction of intermediate point levels
- d. Quicker and less tedious for large number of intermediate sights

- 16. If the staff is not held vertical at a leveling station, the reduced level calculated from the observation would be
- a. True R.L
- b. More than true R.L
- c. Less than true R.L
- d. None of the above

17. Station	B.S	I.S	F.S	Rise	Fall	R.L	Remarks
Α	2.1		2.3		1.5	100.00	C.P
В		1.0		х		101.10	
С			1.3		0.3	100.80	
value o a. 0.5 b. 1.0		show	s a pa	ert of a	level	field boo	k. What is
c. 1.1 d. 2.1							

18. The difference between a level line and a horizontal line is that

- a. Level line is a curved line while horizontal line is a straight line
- Level line is normal to plumb line while horizontal line may not normal to plump line at the tangent point to level line
- Horizontal line is normal to plumb line while level line may not be normal to the plumb line
- d. Both are same

19. The sensitivity of a bubble tube can be increased by

- a. increasing the diameter of the tube
- b. Decreasing the length of bubble
- c. Increasing the viscosity of liquid
- d. Decreasing the radius of curvature of tube
- 20. With the rise of temperature, the sensitivity of a bubble tube
- a. Decreases
- b. Increases
- c. Remains unaffected
- d. None of the above



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