- 01. If the forbearing of a line AB is 35° and that of line BC 15° then the included angle between the lines is
- a. 20º
- b. 50°
- c. 160°
- d. 230°
- 02. In the quadrantal bearing system, a whole circle bearing of 290° 30′ can be expressed as
- a. W 23<sub>0</sub> 30' N
- b. N 66° 30' W
- c. S 1130 30' N
- d. N 23° 30'W
- 03. The prismatic compass and surveyor's compass
- a. Give whole circle bearing (WCB) of a line and quadrantal bearing (QB) of a line respectively
- b. Both give QB of a line and WCB of a line
- c. Both give QB of a line
- d. Both give WCB of a line
- 04. The horizontal angle between the true meridian and magnetic meridian at a place is called
- a. Azimuth
- b. Declination
- c. Local attraction
- d. Magnetic bearing
- 05. A negative declination shows that the magnetic meridian is to the
- a. Eastern side of the true meridian
- b. Western side of the true meridian
- c. Southern side of the true meridian
- d. None of the above
- 06. If the magnetic bearing of the sun at a place at noon in southern hemisphere is 167°, the magnetic declination at that place is
- a. 77<sup>0</sup> N
- b. 23° S
- c. 13º E
- d. 130 W

- 07. The graduations in prismatic compass
  - i) are inverted
  - ii) are upright
- iii) run clockwise having 0 at south
- iv) run clockwise having 0 at north the correct answer is
- a. (i) and (iii)
- b. (i) and (iv)
- c. (ii) and (iii)
- d. (ii) and (iv)
- 08. A gate cap is fitted with a
  - a. Cross staff
  - b. Level
  - c. Chain
  - d. Prismatic compass
- 09. The following bearing were observed while traversing with a compass:

Line	F.B	B.B
AB	104° 30'	284° 30'
ВС	48° 15'	226° 0'
CD /	290° 30'	115° 15'
DA	180° 15'	357º 15'

Which stations were affected by local attraction?

- a. A and B
- b. B and C
- c. C and D
- d. A and D
- 10. The temporary adjustment of a prismatic compass are
  - i) Centering
  - ii) Leveling
  - iii) Focusing the prism the correct order is
- a. (i), (iii), (ii)
- b. (i), (ii), (iii)
- c. (ii), (iii), (i)
- d. (iii), (i), (ii)
- 54. Which of the figures shown in fig.2.3 represents the correct graduation in a surveyor's compass?



- 12. Theodolite is an instrument used for
- Tightening the capstan-headed nuts of level tube
- b. Measurement of horizontal angles only
- c. Measurement of vertical angle only
- d. Measurement of both horizontal and vertical angles
- 13. The process of turning the telescope about the vertical axis in horizontal plane is knows as
- a. Transiting
- b. Reversing
- c. Plunging
- d. swinging
- 14. Size of a theodolite is specified by
- a. The length of telescope
- b. The diameter of vertical circle
- c. The diameter of lower plate
- d. The diameter of upper plate
- 15. Which of the following is not the function of leveling head
- a. To support the main part of the instruments
- b. To attach the theodolite to the tripod
- c. To provide a means for leveling the theodolite
- d. None of the above
- 16. If the lower clamp screw is tightened and and upper clamp screw is loosened, the theodolite may be rotated
- a. On its outer spindle with a relative motion between the venire
- and graduated scale of lower plate b. On its outer spindle without a relative
- b. On its outer spindle without a relative motion between the
  - vernire and graduated scale of lower plate
- c. On its inner spindle with a relative motion between the venire
- And the graduated scale of lower plate
- d. On its inner spindle without a relative motion between the vernier and the graduated scale of lower plate

## 17. A telescope is said to be inverted if its.

- a. Vertical circle is to its right and the bubble of the telescope is
- b. Vertical circle is to its right and the bubble of the telescope is up
- Vertical circle is to its left and the bubble of the telescope is down
- d. Vertical circle is to its left and the bubble of the telescope is up

## 18. The cross hairs in the surveying telescope are placed

- a. Midway between eye piece and objective lens
- b. Much closer to the eyepiece than to the objective lens
- Much closer to the objective lens than to the eye piece
- d. Anywhere between eyepiece and objective lens
- 19. For which of the following permanent adjustments of theodolite, the spire test is used
- a. Adjustment of plate levels
- b. Adjustment of line of sight
- c. Adjustment of horizontal axis
- d. Adjustment of altitude bubble and vertical index frame
- 20. The adjustment of horizontal cross hair is required particularly when the instrument is used for
- a. Leveling
- b. Prolonging a straight line
- c. Measurement of horizontal angles
- d. All of the above

