

Agnihotri Engineering & GATE Classes

Scripting success stories

PLAIN SCALE

Stage (I)

- Q.1) Construct a plain scale for a R.F of 1:4 to show centimeters & decimeters & long enough to measure up to 5 decimeters. Also show the distance of 3.7decimeter on this scale?
- Q.2)Construct a plain scale for a R.F of 1:40,to show meters & decimeters & long enough to measure up to 6 meters & mark 4.8 meters on this scale ?
- Q.3) Construct a plain scale for a R.F of 1:60, to show meters & decimeters & long enough to measure up to 6 meters & mark 4.2 meters on this scale?
- Q.4) Construct a plain scale in which 0.5 meter of distance is represented by 1cm & to measure distance up to 6 meters. Also show the distance of 4.6m & 5.2m?
- Q.5) Construct a plain scale, to show meters & decimeters where 1 m is represented by 2.5 cm & long enough to measure up to 6 meters & mark 4.5 meters on this scale ?Also find R.F of scale?
- Q.6) Construct a plain scale to show kilometers & hectometers when 1km is represented by 2.5 cm, & long enough to measure up to 7km & mark 5.4 km on this scale ?What is R.F of the scale?
- Q.7) Construct a scale for which a 4cm long line represent the length 1.5m & long enough to measure up to 6m. Determine the R.F & also show the distance of 4.6m on this scale?

Stage (II)

- Q.8) Construct a plain scale for which a line 1cm long represent a length of 4decimeter.Draw a plain scale & mark the distance of 6.7 meters on it?
- Q9) Construct a scale for which 1.5 inches is equal to 1 foot & to show feet & inches & long enough to measure up to 4 feet. Show the distance of 2 feet and 10 inches in this scale?
- Q.10) Construct a scale of R.F 1:14 to read feet & inches & long enough to measure up to 7 feet. Also show the distance of 5 feet & 10 inches on this scale?
- Q.11) Construct a scale of R.F 1:60 to read Yard & feet, and long enough to measure up to 5 yards. Show the distance of 3 yards & 1 foot on this scale?
- Q.12) Construct a scale of R.F 1/84480 to show miles & furlong & long enough to measure up to 6 miles. Show the distance of 4 miles & 3 furlongs on this scale?
- Q.13) A rectangular plot of land area 16km^2 is represented by an area of 1cm^2 on a map.Draw a plain scale to show units of km & tens of km & long enough to measure up to 60 km & mark 47 km on this scale?
- Q.14) A rectangular plot of land area 25km^2 is represented on a map by an area of 1cm^2 .Draw a plain scale which can read up to single km & long enough to measure up to 80 km & mark 64 km on this scale?

- Q.15)** An area of 4cm^2 on a map represent the actual area of 100km^2 of the field. Draw a plain scale to show single km and long enough to measure up to 50km. Also mark the distance of 35km on this scale?
- Q.16)** A 3.2cm long line represent a length of 4m. Extend this line to measure length up to 25m & show the unit of meter & 5 meters on this scale? Also show the distance of 17 meters on this scale?
- Q.17)** A container of 1000m^3 volume is represented by a block of 125cm^3 volume. Find the R.F & construct a scale to measure up to 30m. Also show the distance of 19m on the scale?
- Q.18)** A room of 1728m^3 volume is shown by a cube of 216cm^3 volume. Draw a plain scale to show meters and long enough to measure up to 42 m & mark 23 meters on this scale ?
- Q.19)** A car is running at speed of 60km/hr & on a scale 1cm represent $1/3^{\text{rd}}$ of km. Show the distance traveled by car in 3 minute & 30 seconds & also determine R.F of the scale?
- Q.20)** A car is running at the constant speed of 80km/hr . Construct a plain scale which is long enough to measure up to 70 km. Choose a suitable R.F which limit the length of scale between 17cm to 19cm. Also measure the distance travel by car in 9minutes and 45seconds ?

Stage (III) Questions on comparative scale asked as plain scale

- Q.21)** The distance between Mumbai & pune is 180 km & it is covered by a passenger train in 6 hours. Draw a plain scale to measure time up to single minute. The R.F of scale is $1:200000$. Find the distance covered by train in 36 minutes & show minutes & kilometers on the scale?
- Q.22)** The distance between 2 station is 144km & it is covered by a passenger train in 4 hours .Draw a plain scale to measure time up to single minute. The R.F of scale is $1:240000$. Find the distance covered by train in 45 minutes & show minute & kilometers on the scale?
- Q.23)** The distance between Badodra & Surat is 130 km & it is covered by a passenger train in 2.5 hours. Draw a plain scale to measure time up to single minute. The R.F of scale is $1/260000$. Find the distance covered by train in 45 minutes & show minutes & kilometer on the scale ?
- Q.24)** The distance between Ludhiyana & Ambala cant Railway station is 120 km. A train covers this distance in 4 hours. Construct a scale to measure time up to a single minute. R.F of the scale is $1/200000$, indicate the distance covered by train in 38 minutes?
- Q.25)** The distance between Delhi & saharanpur is 180 km & it is covered by a passenger train in 6 hours. Draw a plain scale to measure time up to single minute. The R.F of scale is $1:200000$. Find the distance covered by train in 34minutes & show minutes & kilometers on the scale?

Classes on (ED, BEEE, M1, M2, M3, NA, CONTROL, DSP & other GATE oriented Engineering Subjects)

By :- Agnihotri sir (7415712500) BTI Road , Sherpura , Vidisha

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