

## SCCL – Surveyor Trainee

### SAMPLE / MODEL QUESTION PAPER

Questions : 150

Duration : 2 hours

*General Instructions to candidates:*

- 1) All questions carry equal marks.
- 2) No negative marks.
- 3) Answer all questions.
- 4) Every question has 4 options and only ONE is CORRECT Answer.
- 5) Use OMR sheet for marking the correct answer by bubbling with BLUE or BLACK ballpoint pen only.

- 1) A man standing at a point P is watching the top of a tower, which makes any angle of elevation of 30 degrees with man's eye. The man walks some distance towards the tower to watch its top and the angle of elevation becomes 60 degrees. What is the distance between the base of the tower and the point P ?  

1) $4/3$ units	2) 8 units
3) Data inadequate	4) None of these
- 2) If  $\sin A = -3/5$  and lies in the third quadrant, then the value of  $\cos (A/2)$  is  

1) $1/5$	2) $-1/5$
3) $1/\sqrt{10}$	4) $-1/\sqrt{10}$
- 3) The volume of a solid right circular cylinder is V, the whole surface area is S, height is h and radius of base is r. Then the ratio  $V(1/h + 1/r) : S$  equals  

1) 1 : 4	2) 1 : 3
3) 1 : 2	4) 1 : 5
- 4) Two isosceles triangles have equal vertical angles and their corresponding sides are 4 : 9. The ratio of their areas is  

1) 2 : 3	2) 9 : 4
3) 16 : 81	4) 4 : 9
- 5) The perimeter of a square and a rectangle are equal. If rectangle is 10 cm X 8 cm, then the area of the square exceeds the area of the rectangle by p%. The value of p is .  

1) 1	2) $1 \frac{1}{4}$
3) $1 \frac{1}{2}$	4) $\frac{1}{2}$

- 6) The length of two chords PQ and PR of a circle are 12 cm and 9 cm and angle QPR = 90 degrees, then the radius of the circle (in cm) is.
- 1) 11                                  2) 15  
3) 7.5                                4) 10
- 7) Angle A of a quadrilateral ABCD is 26 degrees less than angle B. Angle B is twice angle C and angle C is 10 degrees more than angle D. What would be the measure of angle A (in degrees) ?
- 1) 106                                 2) 68  
3) 74                                  4) 84
- 8) Ramya purchased an item for Rs, 46000 and sold it at a loss of 12%. With that amount she purchase another item and sold it at a gain of 12%. What was her overall gain/loss (in Rs) ?
- 1) 662.40 loss                      2) 662.40 profit  
3) 642.80 loss                      4) 642.80 profit
- 9) A person starts from A at 6 am and reaches B at 10 am. Another person starts from B at 7.30 am and reaches A at 11 am. They will meet at.
- 1) 8.30 am                            2) 9.20 am  
3) 8.40 am                            4) 9.00 am
- 10) The cycle in a traffic signal completes in 60 secs. During each cycle light is green for 25 secs, it is yellow for 5 secs, and red for 30 secs. What is the probability that light is not green at a randomly chosen time ?
- 1) 1                                      2) 5/12  
3) 2/3                                  4) 7/12
- 11) A committee of 3 members is to be selected out of 3 girls and 2 boys. What is the Probability that the committee has at least one boy ?
- 1) 9/10                                 2) 1/10  
3) 1/5                                  4) 3/5
- 12) Find the wrong number in the series – 3, 5, 7, 12, 17, 19
- 1) 19                                    2) 17.  
3) 13                                    4) 12
- 13) In an Arithmetic Progression, the 12<sup>th</sup> term is -13 and the sum of the first four terms is 24, then sum of first 10 terms is
- 1) 12                                    2) 15  
3) 1                                      4) 0

- 14) In 2016, the Olympic Games shall be held in
- |                           |                      |
|---------------------------|----------------------|
| 1) Beijing, China         | 2) Tokyo, Japan      |
| 3) Rio de Janeiro, Brazil | 4) Bangkok, Thailand |
- 15) The hardware device or software program that sends messages between networks is known as a
- |           |             |
|-----------|-------------|
| 1) Bridge | 2) Backbone |
| 3) Router | 4) Gateway  |
- 16) A collection of programs that controls how your computer system runs and processes information is called
- |                     |                |
|---------------------|----------------|
| 1) Operating System | 2) Computer    |
| 3) Compiler         | 4) Interpreter |
- 17) Which of the following lines demarcates the boundary between India and Pakistan ?
- |                   |                 |
|-------------------|-----------------|
| 1) Radcliffe Line | 2) Maginot Line |
| 3) McMahon Line   | 4) Durand Line  |
- 18) Choose the word which is most similar in meaning to the word printed with underline - Paused
- |           |            |
|-----------|------------|
| 1) halted | 2) relaxed |
| 3) ended  | 4) stuck   |
- 19) The loudness of a sound wave is determined by its
- |               |              |
|---------------|--------------|
| 1) amplitude  | 2) frequency |
| 3) wavelength | 4) speed     |
- 20) Cosmology is the study of
- |              |                |
|--------------|----------------|
| 1) Cosmetics | 2) Universe    |
| 3) Crime     | 4) Manuscripts |