



GOVERNMENT OF JAMMU AND KASHMIR,  
SERVICES SELECTION BOARD,  
Zum Zum Hotel, Rambagh, Srinagar

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([www.jkssb.nic.in](http://www.jkssb.nic.in))

NOTICE

It is notified for the information of the candidates who have applied for the posts of MINE SURVEYOR (Industries & Commerce), advertised vide advt. no. 03 of 2012 dt. 28-12-2012, item no. 118, State cadre - that the Board is going to conduct the Objective Type Written Test in near future. The syllabus for these posts is appended to this notice at Annexure "A".

Sd/-  
(S.A Raina), KAS,  
Secretary,  
J&K Services Selection Board,  
Srinagar.

No. SSB/ /Sel/Secy/2016/14995

Dated: 30-05-2016.

Copy for information to the:-

1. Principal Secretary to Hon'ble Chief Minister J&K.
2. Principal Secretary to the Hon'ble Governor, J & K State.
3. Director Information, J&K Government Srinagar with the request to publish the above notification in at least three leading local newspaper of Jammu/Srinagar on three consecutive dates
4. Director, Radio Kashmir, Kashmir. He is requested to kindly broadcast the above said notification appropriately.
5. Director, Doordarshan Kashmir. He is requested to kindly telecast the above said notification appropriately.
6. Sr. Law Officer, J&K S.S.B., Srinagar/ Jammu
7. Administrative Officer, Service Selection Board, Jammu/Srinagar.
8. Private Secretary to Ld. Chairperson for information of Ld. Chairperson .
9. Incharge Website, SSB. He shall upload the notice on the official website of the Board.
10. Record File.

## Annexure "A"

### SYALLABUS ALONG WITH DISTRIBUTION OF MARKS FOR THE POST OF MINE SURVEYOR

| <u>CHAIN SURVEYING</u>      |   | <u>Marks Allocation</u> |
|-----------------------------|---|-------------------------|
| 1.                          | Chain Surveying                               | 10                      |
| 2.                          | Terms commonly used in Chain Surveying        |                         |
| 3.                          | Operations in Chain Surveying                 |                         |
| 4.                          | Offsetting                                    |                         |
| 5.                          | Examples on limiting length of offset         |                         |
| 6.                          | Instruments used for setting our right angles |                         |
| 7.                          | Conventional Signs or Symbols                 |                         |
| 8.                          | Field Work in Chain Survey                    |                         |
| 9.                          | Recording Field -notes                        |                         |
| 10.                         | Plotting a Chain Survey                       |                         |
| 11.                         | Obstacles in Chaining                         |                         |
| <u>COMPUTATION OF AREAS</u> |   |                         |
| 1.                          | Calculation of Areas from the plan            | 10                      |
| 2.                          | Graphical Method                              |                         |
| 3.                          | Examples on Application of various Formulae   |                         |
| 4.                          | Instrumental method(Plani meter)              |                         |
| <u>COMPASS SURVEYING</u>    |   |                         |
| 1.                          | Compass Surveying                             | 10                      |
| 2.                          | Compass                                       |                         |
| 3.                          | Bearing of Line                               |                         |
| 4.                          | Designation of Bearings                       |                         |
| 5.                          | Fore and Back bearings                        |                         |
| 6.                          | Examples on Bearing                           |                         |
| 7.                          | Calculation of Angles from Bearings           |                         |
| 8.                          | Calculations of Bearings and Angles           |                         |
| 9.                          | Examples pm Bearing and Angles                |                         |
| 10.                         | Local Attraction                              |                         |
| 11.                         | Examples on Local Attraction                  |                         |
| 12.                         | Dip of the magnetic needle                    |                         |
| 13.                         | Magnetic Declination                          |                         |
| 14.                         | Calculation of True Bearings                  |                         |
| 15.                         | Examples on Declination                       |                         |
| 16.                         | Field work in compass Surveying               |                         |
| 17.                         | Plotting a compass Traverse                   |                         |
| 18.                         | Permissible Errors in Compass Surveying       |                         |
| 19.                         | Closing Error and its Graphical Adjustment    |                         |
| 20.                         | Precautions in using the Compass              |                         |
| 21.                         | Sources of Error in Compass work              |                         |
| 22.                         | Testing and Adjusting the Compass             |                         |
| <u>CONTOURING</u>           |   |                         |

|                             |  |    |
|-----------------------------|--|----|
| 1.                          | Contour and Contouring   | 15 |
| 2.                          | Contour Interval and Horizontal Equivalent                                   |    |
| 3.                          | Characteristics of Contour   |    |
| 4.                          | Method of Contouring   |    |
| 5.                          | Interpolation of Contouring  |    |
| 6.                          | Examples on Contouring   |    |
| 7.                          | Drawing the Contour lines  |    |
| 8.                          | Tracing the Contour Gradient for Alignment of Roads, Railways and Canals etc |    |
| 9.                          | Finding Volume of Earth work and capacity of a reservoir from Contour Lines  |    |
| 10.                         | Uses of Contour maps   |    |
| <b>THEODOLITE SURVEYING</b> |  |    |
| 1.                          | Theodolite   | 15 |
| 2.                          | Description of a Transit Vernier Theodolite                                  |    |
| 3.                          | Terms use while Manipulating a Transit Theodolite                            |    |
| 4.                          | Fundamental lines of a Transit Theodolite                                    |    |
| 5.                          | Adjustments of a Theodolite  |    |
| 6.                          | Vernier Scale  |    |
| 7.                          | Measurement of Horizontal Angles   |    |
| 8.                          | Practical Hints on Measuring Horizontal Angles with a Theodolite             |    |
| 9.                          | Laying out a Horizontal Angle  |    |
| 10.                         | Measuring a Vertical Angle   |    |
| 11.                         | Reading Magnetic Bearing of a line   |    |
| 12.                         | Prolonging a straight line   |    |
| 13.                         | Levelling with a Theodolite  |    |
| 14.                         | Examples on Finding the heights of objects                                   |    |
| 15.                         | Traversing with a Theodolite   |    |
| 16.                         | Methods of Traversing  |    |
| 17.                         | Checks on closed Travers   |    |
| 18.                         | Checks on open Traverse  |    |
| 19.                         | Permissible Errors in Theodolite Traversing                                  |    |
| 20.                         | Sources of Errors in Theodolite works  |    |
| 21.                         | Traverse Computations  |    |
| 22.                         | Adjustments of Closed Traverse   |    |
| 23.                         | Gales Traverse Table   |    |
| 24.                         | Problems in Theodolite Traversing  |    |
| 25.                         | Permanent Adjustments of a Transit Theodolite                                |    |
| <b>TACHEOMETRIC SURVEY</b>  |  |    |
| 1.                          | Tacheometry  | 10 |
| 2.                          | Instruments used in Tacheometry  |    |
| 3.                          | Methods of Tacheometry   |    |
| 4.                          | The Stadia System of Tacheometry   |    |
| 5.                          | General Principles of Stadia Tachometry                                      |    |
| 6.                          | Determination of Stadia Constants of a Tacheometer                           |    |
| 7.                          | Theory of Anallatic Lons   |    |

|            |  |     |
|------------|--|-----|
| 8.         | Fixed hair method of Stadia Tacheometry                    |     |
| 9.         | Movable hair method(Subtense method) of Stadia Tacheometry |     |
| 10.        | Reduction of Readings Examples of Stadia Tacheometry       |     |
| 11.        | The Tangential system of Tacheometry Examples              |     |
| 12.        | Direct reading Instruments                                 |     |
| 13.        | Subtense Bar measurements                                  |     |
| 14.        | Levelling by Stadia  |     |
| 15.        | Field-work in Tacheometri Survey                           |     |
| 16.        | Errors in Stadia Surveying                                 |     |
| 17.        | Degree of Accuracy   |     |
| EARTH WORK |  |     |
| 1.         | Measurement of volume of Earth work from cross-section     |     |
| 2.         | Formulae for Areas of X-sections                           |     |
| 3.         | Formulae for Volume  |     |
| 4.         | Prisomoidal correction                                     |     |
| 5.         | Curvature Correction for Volumes                           |     |
| 6.         | Measurement of Volumes from Spot levels                    | 10  |
| 7.         | Measurement of Volumes from Contour                        |     |
| 8.         | Mass Diagram   |     |
| 9.         | Lift and Lead  |     |
| 1.         | Metalliferous Mines Regulations,1961                       | 70  |
| 2.         | Coal Mines Regulations,1957                                |     |
|            | Total Marks  | 150 |

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(S.A Raina) KAS  
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