

GOVERNMENT OF JAMMU AND KASHMIR  
J&K SERVICES SELECTION BOARD  
Hema Complex, Sector -3, Channi Himmat, Jammu  
[www.jkssb.nic.in](http://www.jkssb.nic.in)

CORRIGENDUM

The J&K Services Selection Board has notified syllabi for various categories of posts of Forest, Ecology and Environment Department advertised vide Advertisement Notification No. 03 of 2021 vide Notice No. SSB/COE/Syl/2022/190-93 dated: 07.01.2022.

However, certain discrepancies with respect to the syllabus for the posts of Field Assistant, Divisional Cadre Jammu/Kashmir, Item No 571, 572 and 594 and Draftsman, UT Cadre, Item No 559, advertisement notification No 03 of 2021 respectively, have been noticed.

Accordingly, it is notified for the information of candidates that the syllabus for the posts of Field Assistant, Divisional Cadre Jammu/Kashmir, Item No 571, 572 and 594 (03 of 2021) shall be as per Annexure "A" and for the post of Draftsman, UT Cadre, Item No 559, (03 of 2021) as per Annexure "B" to this notice.

Accordingly, all concerned are informed to take notice.

(Ashok Kumar) KAS,  
Controller of Examination  
Services Selection Board Jammu

No. SSB/COE/Syl/2022/3905-04

Dated: 13.04.2022

Copy to the: -

1. Director Information, J&K Government, Jammu with the request to get the said notification published in at least three leading local newspapers of Jammu/Srinagar.
2. Private Secretary to the Chairman, JKSSB for information of the Chairman.
3. I/c Web site.
4. Syllabus file.

# Annexure "A"

357446/2021/O/o CIH Forest

## Syllabus for Field Assistant

	Name of the Subject	Topic Name
a)	Environmental knowledge <b>General</b>	<ul style="list-style-type: none"> <li>• National / International events related to the environment and common understanding of environmental processes, NGT Act, Pollution Indices.</li> <li>• Abiotic and biotic environment. Non-renewable resources. Health hazards due to Environmental Pollution.</li> </ul>
b)	Water / Waste Water / Industrial Waste Water <b>Engineering</b>	<ul style="list-style-type: none"> <li>• Estimating sewage discharge, quantity of sewage per capita and its relationship per capita water supplied. design periods.</li> <li>• Unit processes / Operations related to water and waste water treatment, namely Equalization Coagulation; Flocculation; Settling; filtration; Disinfection; Aeration; Adsorption etc.</li> <li>• Physical, chemical and biological characteristics of water and sewage; Activated sludge process and its modifications; treatment ponds and aerated lagoons; Trickling filters; Rotating biological contactors; Sequencing Batch reactor and Membrane Batch Reactor.</li> <li>• Anaerobic digestion; Anaerobic filter and UASB. Nitrification &amp; De- nitrification.</li> <li>• Types of pumps required for pumping sewage such as. centrifugal pumps, reciprocating pumps, diaphragm pumps and pneumatic ejectors; Pumping stations – their locations and component parts.</li> <li>• Characteristics and treatment of waste from Textile, Tannery, Dairy, Distillery, Cement Industry.</li> </ul>
c)	Water / Waste Water / Industrial Waste Water <b>Analysis</b>	<ul style="list-style-type: none"> <li>• Physical, chemical, and biological characteristics of water, and sewage, performance evaluation of the wastewater treatment system.</li> </ul>
d)	Environmental Assessment <b>Impact</b>	<ul style="list-style-type: none"> <li>• Basic concept of Environmental Impact Assessment, Environmental Impact statement, and Environment Management Plan.</li> <li>• Prediction and assessment of impacts on air, water, biota, noise, cultural, and socio-economic environment.</li> <li>• Rapid and comprehensive Environmental Impact Assessment.</li> <li>• Use of GIS in making EIA reports for industries and remote sensing and other software use in EIA studies.</li> </ul>
e)	Environmental Legislations in India	<ul style="list-style-type: none"> <li>• Environment (Protection) Act 1986, its amendments, and various rules /notifications made therein.</li> <li>• Environmental Impact Assessment notification, 2006-salient features.</li> <li>• Water (Prevention &amp; Control of Pollution) Act, 1974, Air (Prevention &amp; Control of Pollution) Act 1981.</li> </ul>
f)	Environmental Audit and Safety Audit in Industrial units	<ul style="list-style-type: none"> <li>• Environmental Audit and Safety Audit in Industrial units.</li> <li>• On site and off site emergency plan, Disastrous management plan.</li> </ul>

\*\*\*\*\*



# Annexure "B"

## Syllabus for Draftsman

- A) **Surveying:-**
- Importance of surveying, principles and classifications, measurements of distance and directions, chain surveying, compass surveying, leveling, tacheometry, theodolite, traversing, contouring, plane table surveying, curves.
- B) **Mechanics and Structural Analysis:-**
- Introduction, Concept of rigid body scalar and vector quantities, laws of forces, moment, friction, center of gravity, simple machines, torsion, Properties of material, Bending moment and shear force in statically determinate beams. Simple stress and strain relationship. Stress and strain in two dimensions, principle stresses, stress transformation. Simple bending theory, flexural and shear stresses, unsymmetrical bending, shear centre. Thin walled pressure vessels, uniform torsion, buckling of column, combined and direct bending stresses. Slope and deflection, analysis of trusses.
  - Modern Tools and Technologies.
  - GIS/RS applications in survey.
- C) **Soil Engineering / Fluid Mechanics and Hydraulics:-**
- Origin of soils, properties, soil classification, definitions, relationship and interrelationship, flow of water through soils, permeability and seepage, effective stress principle.
  - Properties of fluids, hydrostatic pressure, measurement of pressure, flow measurements, flow through pipes, flow through open channels, hydraulic pumps, principle of conservation of mass, momentum, energy and corresponding equations, potential flow, applications of momentum and Bernoulli's equation.
- D) **Constructional Planning Management:-**
- Network diagrams, PERT-CPM, cost optimization contracts, tenders, depreciation, valuation, organization, measurement books, cash book, functions of management, construction planning, quality control, inventory control, Estimation and costing definitions, methods of estimation and type of estimates.
  - Programme such as CAD.
- E) **Water supply and waste water Engineering:-**
- Introduction, quantity of water, quality of water, water treatment, conveyance of water, laying out of pipes, Building water supply, water supply fixtures and installation, plumbing, sewerage system, laying and construction of sewers, sewage characteristics, Methods of disposal, sewage treatment, building drainage, air and noise pollution.

Q1

357446/2021/O/o CIH Forest

- Types of pumps required for pumping sewerage such as, centrifugal pumps, reciprocating pumps, diaphragm pumps and pneumatic ejectors; Pumping stations – their locations and component parts.

**F) Environmental Legislations in India:-**

- Environment (Protection) Act 1986, its amendments, and various rules /notifications made therein.
- Environmental Impact Assessment notification, 2006-salient features.
- Water (Prevention & Control of pollution) Act, 1974, Air (Prevention & Control of pollution) Act 1981.

**G) Irrigation Engineering:-**

- Introduction, water requirement of crops, hydrological cycle, Dams, Canals, dams, canal head works and regulatory works, cross drainage works, hydraulic structures, river training works, water-logging, drainage, ground water recharge, well hydraulics.

**H) Engineering Drawing:-**

- Basic of Engineering drawings, Basic concepts of CAD/CAM, Engineering drawing softwares.

\*\*\*\*\*

