



UNION TERRITORY OF JAMMU AND KASHMIR,  
SERVICES SELECTION BOARD,  
Sehkari Bhawan, Panama Chowk, Jammu.

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NOTICE

It is notified for the information of the concerned candidates, who have applied for the posts of Radiation Physics/Physicist, Clinical Psychologist, Orthodontic Technician, Workshop Worker & Health Educator, Divisional Cadre Jammu/Kashmir, Item Nos 012,017, 018, 019 & 032 of advertised vide Advertisement Notification No. 01/2019/ to 05/2019 (Health & Medical Education Department, (05 newly created GMCs) that the item-wise syllabi for the posts detailed below is given as annexure "A" to "D" to this notice.

Detail of items/Posts			
Advt. No.	Item No.	Name of the post	Syllabus Annexed
01, 02, 03, 04 & 05 of 2019	012	Radiation Physics/Physicist	Annexure "A"
01, 02, 03, 04 & 05 of 2019	017	Clinical Psychologist	Annexure "B"
01, 02, 03, 04 & 05 of 2019	018 & 019	Orthodontic Technician & Workshop Worker	Annexure "C"
01, 02, 03, 04 & 05 of 2019	032	Health Educator	Annexure "D"

The candidates are also intimated that there shall be negative marking for wrong answer (-0.25 for each wrong answer) attempted in the said examination.

(Ranjeet Singh) KAS  
Secretary,  
J&K Services Selection, Board  
Jammu.

No: SSB/Secy/Sel/2019/5689-93

Dated: 20.11.2019

Copy to: -

1. Commissioner/Secretary, Health & Medical Education Department, Civil Sectt. Jammu.
2. Director Information, J&K Government, Jammu with the request to get the said notification published in at least three leading local newspaper of Jammu/Srinagar on three consecutive days.
3. Pvt. Secretary to the Ld. Chairman for information of Chairman.
4. I/C Website, SSB.
5. Syllabus file.

## Annexure "A"

Syllabus for the post of Radiation Physics/ Physicist (Item No. 012) advertised vide Notification No. 01, 02, 03, 04 and 05 of 2019 (New GMCs)

- Unit -I (Marks: 35)
  - Mathematical Methods in Physics
  - Classical Mechanics
  - Basic Electronics
  - Introductory Nuclear Physics
  - Interaction of Radiations with matter
  - Electronics Practical
  - Nuclear Physics Practical
  - Comprehensive Semester Viva Voce
- Unit -II (Marks: 25)
  - Quantum Mechanics
  - Anatomy, Physiology and Radiology
  - Radiation detection, measurement and instruments
  - Numerical Techniques and Computer Programming
  - Radiation Physics Fundamental
  - Practicals in Computer Applications
  - Practicals in Instrumentation in radiology
  - Comprehensive Viva Voce
- Unit -III (Marks: 25)
  - Radiation Hazards Safety, Evaluation and Control
  - Physics of Medical Imaging
  - Physics of Radiotherapy
  - Nuclear Medicine
  - Practicals in Radiation detection and measuring Instruments
  - Practicals in Medical Imaging
  - Comprehensive Viva Voce
- Unit -IV (Marks: 35)
  - Quality Assurance, Acceptance testing and Commissioning of Radiother System.
  - Radiotherapy Treatment Planning.
  - Modern Trends in Radiology and Radiation Therapy.
  - Practicals Dosimetry in Radiotherapy.
  - Practicals in Radiotherapy Planning and Dosimetry.
  - Practicals in Q/A and Calibration of Radiological Equipments.
  - Comprehensive Viva Voce.
- Unit -V and VI

- Project Work
- Field Training

## Annexure "B"

Syllabus for the post of Clinical Psychologist (Item No. 017) advertised vide Notification No. 01, 02, 03, 04 and 05 of 2019 (New GMCs)

Unit-I	Experimental Psychology	(Marks 10)
	Historical issues and systems of Psychology	(Marks 10)
	Research methods in Psychology-I	(Marks 10)
	Statistical foundations of Psychological Research	(Marks 10)
Unit-II	Psychology of Personality	(Marks 10)
	Physiological Psychology	(Marks 10)
	Research methods in Psychology-II	(Marks 05)
	Cognitive Psychology	(Marks 05)
	Foundation of Cognitive Psychology	(Marks 05)
Unit-III	Psychopathology	(Marks 05)
	Organizational Psychology	(Marks 05)
	Advanced Social Psychology	(Marks 05)
	Modern Health Psychology	(Marks 05)
Unit-IV	Developmental Psychology	(Marks 05)
	Individual behavior and Social Processes in Organizations	(Marks 05)
	Community Psychology	(Marks 05)
	Psychology of Human Resource Management	(Marks 05)
	Counselling and Psychotherapeutic Process	(Marks 05)

## Annexure "C"

Syllabus for the post of Prosthetic and Orthodontic Technician/Workshop Worker (Item No. 18 & 19) advertised vide Notification No. 01, 02, 03, 04 and 05 of 2019 (New GMCs)

- General Human Biology & Disease (Marks: 10)
  - Elementary Physics and Chemistry.
  - Characteristics of living matter.
  - The Structure of living matter.
  - The Tissues
  - Systems and various parts of human body.
  - Development and types of Bones.
  - Bones of Head and trunk.
  - Bones of the Limb.
  - Joints and Articulations.
  - Structure and Action of muscles.
  - The Chief Muscles of the Body.
  - The Blood.
  - The heart and Blood Vessels.
  - The Circulatory system.
  - The Respiratory system.
  - The Digestive system.
  - The Liver, Biliary system and Pancreas.
  - Nutrition and Metabolism.
  - Endocrine Glands and Exocrine.
  - The Urinary System.
  - The Nervous system.
  - The Ear.
  - The Eye.
  - The Skin.
  - The Reproductive System etc.
- Dental Anatomy & Physiology Pharmacology Pathology including Microbiology.
  - ✓ General & Dental Anatomy (Marks: 10)
    - Elementary Knowledge of the jaws and teeth, Important between deciduous and permanent teeth. Chronology of eruption, elementary knowledge of occlusion of teeth. Relationship of teeth with investing tissues, muscles of mastication facial expressions and elementary knowledge of temporary mandibular joints.
- General & Dental Physiology and Histology. (Marks: 10)
  - Elementary knowledge of the structure and function of various dental and oral tissues e.g. gingival, peridontial membrane, alveolar process, cementum, enamel, dentine, mucous-membrance, pulp.
  - Salivary glands and functions of saliva, mastication.

- General and Dental Pharmacology (Marks: 05)
  - The Therapeutics drugs commonly used in dentistry and their effects. Practical diagnosis, dispensing of drugs.
  
- Dental Radiology (Marks: 05)
  - Technical aspect of Dental Radiograph i.e. the taking processing and mounting of Dental Radiographs, Radiation Hazards and protection against radiation.
  
- General Dentistry including Oral Surgery (Marks: 30)
  - General knowledge of various materials used in Dentistry such as impression material, Gypsum products, waxes investing materials and various filling materials temporary and permanent.
  
- ✓ Chairside Assistants
  - Reception of Patient.
  - Lay-out of reception room and Dental Surgery and hygienist Clinic.
  - Chairside Assistance and Techniques.
  - Local anesthesia and equipment.
  - Methods of Sterilization and care of Dental Instruments.
  - Basic principles in surgery.
  - The use of instruments in Dental practice.
  - Examination of Oral Cavity and Charting of teeth etc.
  - Instructions to patients and recalls.
  - Maintenance of Dental Unit/ Instrument.
  
- Prosthodontics with Cosmetology (Marks: 15)
  - Introduction and applied anatomy.
  - History taking and Examination.
  - Simple surgical preparation, impression taking.
  - Selection of patient.
  - Phonetics and anatomical articulation.
  - Clasp retained partial denture-plan, treatment, design and management.
  - Partially edentulous arches.
  - Connectors-major and minor and functions.
  - Retainers direct and indirect.
  - Dentures functions, biomechanics, Survey, diagnosis, planning, partial and temporary relining, resilient lining, aids to retention and relief.
  - Cosmetology and appearance.
  - Dental Materials and its manipulation.
  
- Orthodontics (Marks: 10)

- Etiology, Classification and malocclusion.
  - Skeletal maturation, growth, dentition with special reference to endocrines.
  - Classification of dentofacial, abnormalities, anthropometrics, cephalometrics.
  - Examination of patient, differential diagnosis and treatment planning.
  - Principle of mechanotherapy.
  - Basics about tweed method, twin wire appliance, activators, plates appliances including tissue reaction and evaluation of treatment.
- General Hygiene, Nutrition, Community welfare, Conservative & Preventive Dentistry:
- ✓ Dental Hygiene and Oral Prophylaxis (Marks: 15)
    - Definition of Hygiene.
    - Objective of Dental Hygiene.
    - Oral prophylaxis-various methods.
    - Stains on teeth and their management.
    - Dental Plaque, Dental calculus.
    - Brief description and the role of oral Prophylaxis in Gingivitis, Peritonitis etc.
  - ✓ Clinicals-
    - Instruments, technique of Oral Prophylaxis.
    - Polishing of teeth.
    - Topical application of fluorides.
    - Care of Oral Cavity and appliances during treatment of Maxillo-facial cases.
- Conservative & Preventive Surgery (Marks: 10)
- Dental Caries-Prevalence and Prevention.
  - Periodontal Diseases, saliva in relation to Dental Health and diseases.
  - Dental Health & Diseases.
  - Dietary habits and dental Health, Malocclusion, Oral Cancer.

## Annexure "D"

Syllabus for the post of Health Educator (Item No. 32) advertised vide Notification No. 01, 02, 03, 04 and 05 of 2019 (New GMCs)

### Unit-I

Marks: 30

- Ecology & Environmental Biology
- Ichthyology
- Fundamentals of Bio-chemistry
- Genetics and Cytogenetics
- Biology and diversity of Microorganisms
- Algae and Bryophytes, Diversity and Evolution
- Cytology, Genetics and Cytogenetics
- Plant Ecology

### Unit -II

Marks: 30

- Basic Endocrinology
- Cell and Molecular Biology
- Functional Anatomy of Animals
- Insect diversity and Physiology
- Cell and Molecular Biology of Plants
- Pteridophytes and Gymnosperms-Diversity and Evolution
- Taxonomy of Angiosperms
- Plant Development and Reproduction

### Unit -III

Marks: 30

- Animal Physiology
- Biotechnology & Microbiology
- Cell Biology and Cytogenetics-I
- Fish and Fisheries-I
- Limnology-I
- Entomology I
- Wildlife Biology, Conservation & Management-I
- Economic Zoology
- Plant Physiology and Metabolism
- Plant Breeding and Biostatistics
- Plant Resource Utilization and Conservation
- Entrepreneurship in Botany

### Unit -IV

Marks: 30

- Reproductive and Developmental Biology
- Cell Biology and Cytogenetics- II
- Fish & Fisheries II
- Limnology II



- Entomology II
- Wildlife Biology, Conservation & Management-II
- Biological Anthropology
- Plant Anatomy
- Principles of Plant Pathology
- Genetic Engineering of Plants and Microbes and Plant Tissue Culture
- Plant propagation