

## **TOPICS/SYLLABUS FOR THE ADVERTISED POSTS**

Question paper for general category posts i.e. Dy. Director (Gen), Assistant Director (Gen), Programme Officer (Gen), Senior Assistant, Junior Assistant shall have 4 sections pertaining to (i) General Awareness, (ii) English Knowledge, (iii), General Intelligence & Reasoning Ability and (iv) Arithmetical & Numerical Ability. For specialized posts i.e. Dy. Director (MIS), Dy. Director (Food Processing), Assistant Director (Legal), Assistant Director (MIS), Assistant Director (Horticulture), Assistant Director (Live Stock) the question paper shall have 4 sections pertaining to (i) Field of Specialization, (ii) English Knowledge, (iii) General Intelligence & Reasoning Ability and (iv) Arithmetical & Numerical Ability.

### **SYLLABUS OF CBT FOR THE POSTS OF DY. DIRECTOR (GEN), ASSISTANT DIRECTOR (GEN), PROGRAMME OFFICER (GEN), SENIOR ASSISTANT, JUNIOR ASSISTANT**

#### **i) GENERAL AWARENESS**

Questions are to be designed to test the candidate's General Awareness of the environment around him and its application to society. Questions will also be designed to test knowledge of current affairs and of such matters of everyday observation and experience in their scientific aspect as may be expected of any educated person. The test will include questions relating to Indian Society, Socio-Economic agricultural and Geo-Cultural Development Issues, etc. It will also include questions on India and its neighbouring countries especially pertaining to History, Geography, Economics, Indian Polity and Constitution, Art & Culture, General Science & Scientific Research, National/International Organizations/Institutions etc.

#### **ii) ENGLISH KNOWLEDGE**

This part shall include questions to test the candidate's understanding and comprehension of language and writing ability.

#### **iii) GENERAL INTELLIGENCE AND REASONING ABILITY**

This part shall include questions of both verbal and non-verbal types. Test shall include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgement, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc. The test shall also include questions designed to test the candidate's abilities to deal with abstract ideas and symbols and their relationships arithmetical computations and other analytical functions.

#### **iv) ARITHMETICAL AND NUMERICAL ABILITY**

The test of Arithmetical and Numerical Abilities shall cover Number system including questions on Simplification, Decimals, Fractions, L.C.M., H.C.F., Ratios and Proportion, Percentage, Average, Profit & Loss, Discount, Simple & Compound Interest, Mensuration, Time & Work, Time & Distance, Tables and Graphs etc.

## **SYLLABUS OF CBT FOR THE POSTS OF DEPUTY DIRECTOR (MIS) & ASSISTANT DIRECTOR (MIS)**

### **i) COMPUTER SCIENCE/INFORMATION TECHNOLOGY**

#### **INTERNET & WEB TECHNOLOGIES:**

HTML, Java Script, JSON, AJAX, XML, Web Servers: Tomcat, Apache, WAMP, IIS etc., Server Programming Language- Java, .Net, PHP, Web Design Tools, API Integration, DNS & Web Hosting, Static & Dynamic Web Development.

#### **IT PROJECT MANAGEMENT:**

Software Development Life Cycle, Requirement Analysis & Engineering, IT Project planning & Execution, Unified Modeling Language, Software Analysis & Design, Concepts of OOPs, Object Oriented Analysis and Design, Software Change Management, IT Vendor Management, client/ server architecture, deployment of web based applications.

#### **SOFTWARE TOOLS & TECHNIQUES:**

Content Management System (CMS), Software Installation & Configuration, Database Management System, Database design, ER diagrams, Database Client.

#### **CYBER SECURITY AND EMERGING TECHNOLOGIES:**

Secure programming techniques, OWASP top 10 vulnerabilities, concepts on IOT, Cloud Technology etc.

#### **COMPUTER NETWORKS & OPERATING SYSTEM:**

LAN Management, Routing Protocols, SMTP, VLAN, VoIP, Wireless Networks, WLAN, Wi-Fi, LAN Testing, Network Extension, VPN, Network Protection & Security Threats, Network Change Management, LAN Proxy Server, Web Servers & File Servers, Operating System: Microsoft Windows & Linux Installation & Configuration.

### **ii) ENGLISH KNOWLEDGE**

This part shall include questions to test the candidate's understanding and comprehension of language and writing ability.

### **iii) GENERAL INTELLIGENCE AND REASONING ABILITY**

This part shall include questions of both verbal and non-verbal types. Test shall include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgement, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc. The test shall also include questions designed to test the candidate's abilities to deal with abstract ideas and symbols and their relationships arithmetical computations and other analytical functions.

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## **SYLLABUS OF CBT FOR THE POST OF DEPUTY DIRECTOR (FOOD PROCESSING)**

### **i) FOOD PROCESSING**

1. General chemistry of food constituents
2. Physical and chemical properties of food constituents.
3. Microbiology of food and food based products
4. National and international food standards
5. Engineering properties of food materials
6. Post harvest technologies and management of food produces
7. Principal operations and equipment for handling of food material
8. Modern food packaging technologies and their applications for different food products
9. Preservation and Processing technologies for different food and related products.
10. Food hygiene, safety and quality assurance
11. Food science and nutrition
12. Waste disposal in food industry.

### **ii) ENGLISH KNOWLEDGE**

This part shall include questions to test the candidate's understanding and comprehension of language and writing ability.

### **iii) GENERAL INTELLIGENCE AND REASONING ABILITY**

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## **SYLLABUS OF CBT FOR THE POST OF ASSISTANT DIRECTOR (LEGAL)**

### **i) LAW**

1. NCDC Act, 1962
2. Multi State Cooperative Societies Act, 2002
3. The Indian Contract Act, 1872
4. The Transfer of Property Act, 1882
5. SARFAESI Act, 2002
6. The Recovery of Debts due to Banks & Financial Institutions Act, 1993 (DRT Act)
7. The Registration Act, 1908
8. Limitation Act, 1963
9. Arbitration & Reconciliation Act, 1996
10. Negotiable Instruments Act, 1881
11. Constitution of India (Basic concepts, Writs, Fundamental Rights, Jurisdiction of Courts)
12. The Income Tax Act, 1961
13. GST Acts, 2017
14. Administrative Law (Rule of Law, Delegation, Autonomous Bodies, Natural Justice).
15. The Indian Stamp Act, 1899
16. Interpretation of Statutes
17. Drafting/Execution of Legal Security documents, handling of recovery cases in Debt Recovery Tribunals and other courts, issue of legal notices, investigation of Title Deeds of properties, etc.

### **ii) ENGLISH KNOWLEDGE**

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## **SYLLABUS OF CBT FOR THE POST OF ASSISTANT DIRECTOR (HORTICULTURE)**

### **i) HORTICULTURE**

1. General Horticulture,
2. Classification of horticultural crops
3. Soil types and their suitability for different horti crops
4. Propagation, climatic requirement and cultivation of Horticulture crops,
5. Economics of horticultural crops
6. Physiology of horticulture crops,
7. Layout and establishment of orchards;
8. Methods and modern technologies including protected cultivation of horticultural crops;
9. Important physiological disorders of different horticultural crops and their management;
10. Management of important pests and diseases of horticulture crops,
11. Principles and methods of processing and preservation of horticultural crops,
12. Modern Harvesting technologies and post harvest management of horticulture crops
13. Primary processing and value addition of horticulture crops
14. Floriculture & landscaping Architecture,
15. Nutritive value of horticulture crops and their role in human nutrition.

### **ii) ENGLISH KNOWLEDGE**

This part shall include questions to test the candidate's understanding and comprehension of language and writing ability.

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## **SYLLABUS OF CBT FOR THE POST OF ASSISTANT DIRECTOR (LIVE STOCK)**

### **i) VETERINARY SCIENCE & ANIMAL HUSBANDRY**

**VETERINARY ANATOMY:** General Osteology, Arthrology and Myology; General Angiology, Neurology and Aesthesiology; General Splanchnology; Fore limb; Head and neck; Thorax; Abdomen; Hind limb and pelvis; Cytology, Embryology.

**VETERINARY PHYSIOLOGY:** Blood, cardiovascular, nervous and muscular systems; Digestive and respiratory systems; Excretory and endocrine systems; Reproduction, lactation, growth and environmental physiology.

**VETERINARY BIOCHEMISTRY:** General veterinary biochemistry; Intermediary metabolism; and Veterinary analytical biochemistry.

**VETERINARY PHARMACOLOGY AND TOXICOLOGY:** General pharmacology; Drugs acting on autonomic nervous system; Drugs acting on central nervous system; Drugs acting on different body systems; Veterinary chemotherapy; and Veterinary toxicology.

**VETERINARY PARASITOLOGY:** General veterinary parasitology; Trematodes and cestodes of veterinary importance; Nematodes of veterinary importance; Arthropods of veterinary importance; and Protozoa of veterinary importance.

**VETERINARY MICROBIOLOGY GENERAL & SYSTEMATIC VETERINARY BACTERIOLOGY:** Veterinary mycology; Microbial biotechnology; Veterinary immunology and serology; and General and systematic veterinary virology.

**VETERINARY PATHOLOGY:** General veterinary pathology; Systemic veterinary pathology; Animal oncology, veterinary clinical pathology and necropsy; Pathology of infectious and non-infectious diseases of domestic animals; Avian pathology; and Pathology of diseases of laboratory and wild animals.

**VETERINARY PUBLIC HEALTH AND EPIDEMIOLOGY:** Veterinary public health and food safety; Veterinary epidemiology; Zoonotic diseases; and Environmental hygiene.

**ANIMAL NUTRITION:** Principles of animal nutrition and feed technology; Applied Ruminant Nutrition-I; Applied Ruminant Nutrition-II; and Applied Non-Ruminant Nutrition.

**ANIMAL GENETICS AND BREEDING:** Biostatistics and computer application; Principles of animal and population genetics; and Principles of animal breeding.

**LIVESTOCK PRODUCTION MANAGEMENT:** General livestock management; Fodder production and conservation; Livestock production management-ruminants; Zoo animals production management; Animal welfare; Poultry production management; Diversified poultry production and hatchery management; Laboratory or rabbit or pet animal production management; and Swine or equine or camel, yak and mithun production management.

**LIVESTOCK PRODUCTS TECHNOLOGY:** Milk and milk products technology; Wool science; Abattoir practices and animal by-products technology; AND Meat Science

**VETERINARY GYNAECOLOGY AND OBSTETRICS:** Veterinary Gynaecology; Veterinary Obstetrics; Veterinary Andrology; and Artificial Insemination.

**VETERINARY SURGERY AND RADIOLOGY:** Veterinary General Surgery; Veterinary Anaesthesiology; Veterinary Diagnostic Imaging Techniques; Regional Surgery- I; Regional Surgery-II; and Orthopedics and lameness.

**VETERINARY MEDICINE:** General Veterinary Medicine; Systemic diseases; Metabolic and deficiency disorders; Zoo and wild animal medicine;l and rickettsial diseases; Viral and parasitic diseases; Jurisprudence, ethics, and Animal welfare.

**VETERINARY AND ANIMAL HUSBANDRY EXTENSION EDUCATION:**

Livestock based livelihoods and their evolution; Extension education and development; Rural sociology in veterinary extension; Transfer of technology for livestock development; Communication and extension teaching methods; Livestock economics and marketing; Livestock entrepreneurship; Information and communication technology; and Contemporary issues in livestock enterprises.

**VETERINARY CLINICAL COMPLEX (VCC):** Veterinary Clinical Practices-I; Veterinary Clinical Practices-II; Ambulatory Section; Diagnostic Laboratory Section; Medicine Section; Gynaecology and Obstetrics Section; Surgery and Radiology Section; and Pet Animal Section.

**LIVESTOCK FARM COMPLEX:** Livestock Farm Practices.

**ii) ENGLISH KNOWLEDGE**

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**iii) GENERAL INTELLIGENCE AND REASONING ABILITY**

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