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Current Affairs This Contain Only Some
Important Points.**

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Animal Husbandry Sample Notes for IBPS AFO Mains Exam

BREEDS OF CATTLE

• INDIGENOUS BREEDS OF CATTLE

Gir



- This breed is otherwise known as Bhadawari, Desan, Gujarati, Kathiawari, Sorthi, and Surati.
- Originated in Gir forests of South Kathiawar in Gujarat also found in Maharashtra and adjacent Rajasthan.
- Basic colours of skin are white with dark red or chocolate-brown patches or sometimes black or purely red.
- Horns are peculiarly curved, giving a 'half-moon' appearance.
- Milk yield ranges from 1200-1800 kgs per lactation.
- Age at first calving 45-54 months and inter calving period from 515 to 600 days.
- This is known for its hardiness and disease resistance.

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- **Exotic dairy breeds of cattle**

Holstein Friesian



- Originated from the northern parts of **Netherlands**, especially in the province of Friesland.
- **Largest dairy breed** and ruggedly built in shape and possess large udder.
- Breeds have typical marking of black and white that make them easily distinguishable.
- The average milk production of cow is 6000 to 7000 kgs per lactation.

Breeds of Buffaloes

MURRAH



- It is the most important breed of buffaloes whose home is **Rohtak, Hisar and Jind of Haryana and Nabha and Patiala districts of Punjab.**
- Synonyms: **Delhi, Kundi, Kali**
- The colour is usually **jet black** with **white markings** on tail and face and extremities sometimes found.
- The tightly curved horn is an important character of this breed.
- The body size is massive, neck and head are comparatively long.
- Head of females is short, fine and clear cut.
- Age at first calving is **45-50 months** and **inter calving period** is **450-500 days.**

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**BASICS OF LIVESTOCK PRODUCTION
MANAGEMENT**

ZOOLOGICAL CLASSIFICATION OF LIVESTOCK

CLASSIFICATION	ZEBU CATTLE	EXOTIC CATTLE	BUFFALO	GOAT	SHEEP	PIG
Kingdom	Animalia	Animalia	Animalia	Animalia	Animalia	Animalia
Phylum	Chordata	Chordata	Chordata	Chordata	Chordata	Chordata
Class	Mammalia	Mammalia	Mammalia	Mammalia	Mammalia	Mammalia
Sub-Class	Eutheria	Eutheria	Eutheria	Eutheria	Eutheria	Eutheria
Order	Ungulata	Ungulata	Ungulata	Ungulata	Ungulata	Ungulata
Sub - Order	Artiodactyla	Artiodactyla	Artiodactyla	Artiodactyla	Artiodactyla	Artiodactyla
Family	Bovidae	Bovidae	Bovidae	Capridae	Ovidae	Suidae
Genus	Bos	Bos	Bubalus	Capra	Ovis	Sus
Species	indicus	taurus	bubalis	Hircus	aries	domesticus

• POULTRY: SOME IMPORTANT FACTS

➤ **Zoological classification:**

- Kingdom: Animalia
- Phylum: Chordata (with bone)
- Sub-Phylum: Vertebra (Animal having spinal column)
- Class: Aves (Feathered, warm blooded vertebrates with 4-chambered heart)
- Sub-class: Neorniths (without teeth)

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**Biological data of different poultry species& common
terms**

S.No	Species			Incubation period (days)		Chromosome number (pairs)	Age at sexual maturity (weeks)
1.	Chicken			21		39	18-20
2.	Duck			28		40	28-30
3.	Muscovy duck			33-35		40	28-30
4.	Goose			28-32		40	28-30
5.	Guinea fowl			27-28		39	28-32
Species	Young (0-8 weeks)	Young (9-18 weeks)		Adult		Male Castrated	
		Male	Female	Male	Female		
Chicken	Chick	Cockerel	Pullet	Cock/Rooster	Hen	Capon	
Duck	Duckling	Drakelet	Ducklet	Drake	Duck		
Turkey	Poult			Tom	Hen		

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General Information About Poultry

Classification of Breeds of Poultry

➤ **American Class**

			
New Hampshire	White Plymouth Rock	Rhode Island Red	Wyandote II

➤ **Mediterranean Class**

- They are light bodied and well developed for high eggproduction.

		
Leghorn	Minorca	Ancona

➤ **English Class**

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Australorp	Sussex	Orpington

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INDIAN POULTRY BREEDS

➤ **Types of Indian pure breeds**

- There are only **four pure Indian breeds** of chicken available.

➤ **Aseel**

- It is noted for its **pugnacity, high stamina, majestic gait and dogged fighting qualities.**
- The popular varieties of Aseel are, Peela (Golden red), Yakub (Black and red), Nuri (White), Kagar (Black), Chitta (Black and white spotted), Java (Black), Sabja (White and golden or black with yellow or silver), Teekar (brown) and Reza (light red).
- Pea comb, bright red wattle and ear lobes, long neck and strong legs

➤ **Chittagong**

- It is also known as **Malay.**
- Dual-purpose bird.
- The popular varieties are buff, white, black, dark brown and grey.
- Pea comb, red ear lobes, over-hanging prominent eyebrows, feather-less shank

➤ **Breeds of Poultry**

- **Jharsim: A location specific rural poultry variety**

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for Jharkhand

- Jharsim is a dual-purpose location specific poultry variety suitable for Jharkhand state.
- The variety is developed under All India Co-ordinated Research Project on Poultry Breeding, Birsa Agricultural University, Ranchi Centre.

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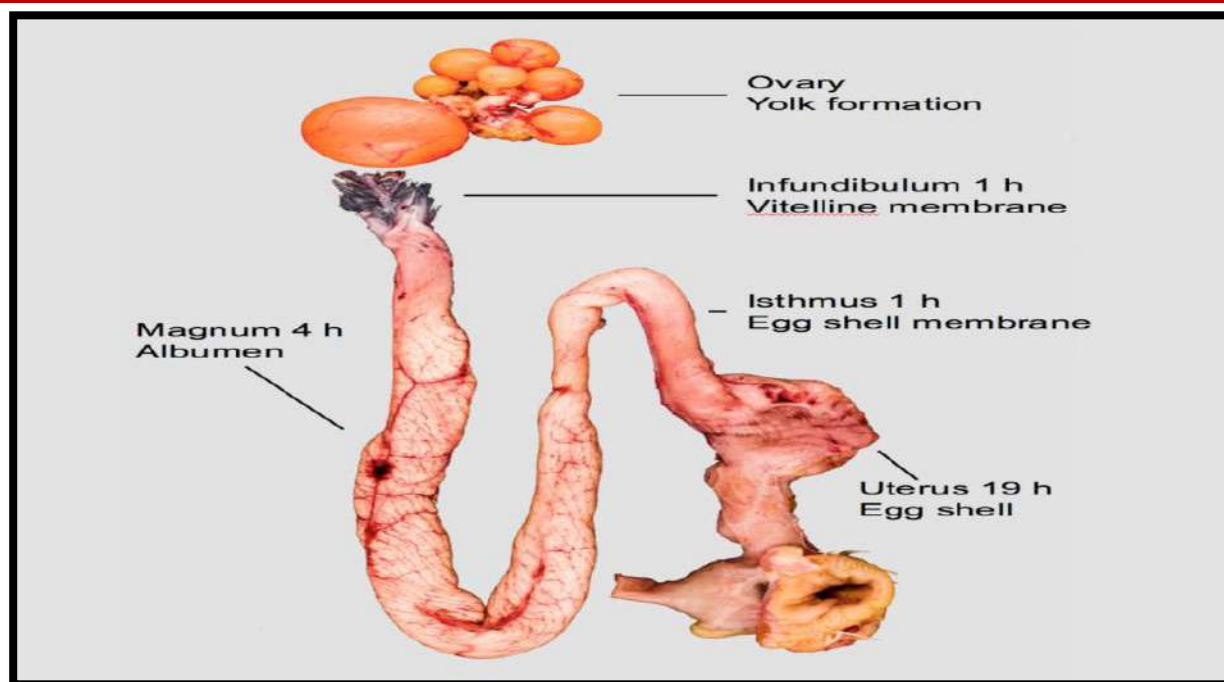
CHICKEN EGG STRUCTURE AND FORMATION

Formation of Egg

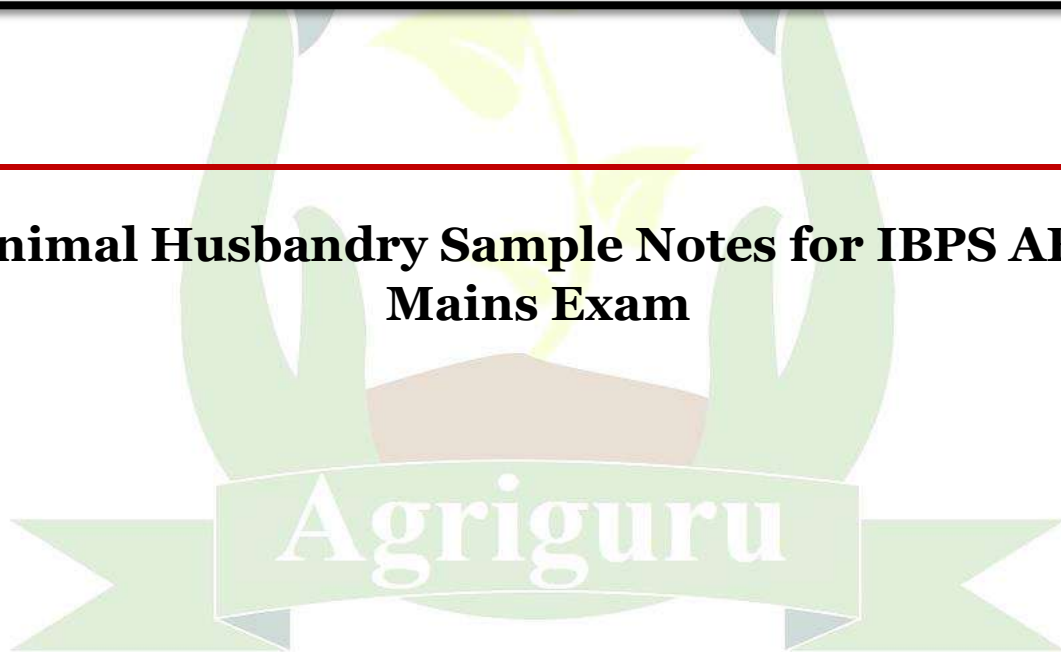
Formation of yolk

- About 10 days are required for an individual yolk to mature.
- Deposits of yolk material are very slow at first and light in colour.
- The colour present in the yolk is ***Xanthophylls***, a **carotenoid pigment derived from the diet**.
- The pigment is transferred first to the bloodstream, then quickly to the yolk.

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CHICKEN EGG STRUCTURE AND FORMATION

S. No.	Part of the oviduct	Functions	Duration of developing egg stays	Length (cm)
1	Infundibulum	Picking and engulfing the yolk	15 minutes	9
2	Magnum	Secretion of thin and thick albumen	3 hours	33
3	Isthmus	Formation of shell membranes	1 hour & 15 minutes	10
4	Uterus	Formation of shell	18 to 21 hours (Average 20 hours)	10
5	Vagina	Oviposition	2 to 5 minutes	6
Total			24 hours & 35 minutes	68

➤ **Structure of Egg**

- The egg has four main parts namely (1) Yolk, (2) Albumen, (3) Shell membranes and (4) Shell.

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Mineral Content of Chicken egg

Chicken egg without the shell (Shell egg weight-60.9g)

Mineral (in mg)		Whole liquid	White	Yolk
1.	Calcium	29.00	3.80	25.20
2.	Chlorine	96.00	66.10	29.90
3.	Copper	0.03	0.01	0.02
4.	Iodine	0.03	0.01	0.03
5.	Iron	1.08	0.01	1.05
6.	Magnesium	6.30	4.15	2.15
7.	Manganese	0.021	0.01	0.02
8.	Phosphorus	110.00	8.00	102.00
9.	Potassium	74.00	57.00	17.00
10.	Sodium	72.00	63.00	9.00

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Poultry House

➤ Layout of poultry farm

- There should be a minimum distance of 50-100 feet between chick and grower shed and the distance between grower and layer sheds should be of minimum 100 metre.
- The disposal pit and sick room should be constructed only at the extreme end of the site.

➤ Different types of poultry houses

- **Brooder / chick house**-It is used to brood and rear egg-type chicks from 0 to 8 weeks of age.
- **Grower house**-It is used to grow egg-type birds from 9 to 18 weeks of age.
- **Brooders cum grower house**-Here, the birds are reared from 0 to 18 weeks of age (entire brooding and growing period of egg-type chicken).
- **Layer house**-In which birds over 18 weeks of age are reared, usually up to 72 weeks of age.
- **Broiler house**-In which broilers are reared up to 6 weeks of age.
- **Breeder house**-In which both male and female breeders are maintained at appropriate sex ratio.
- **Environmentally controlled (EC) house**-In which, entire environment is manipulated in such a way that is optimum for the bird's growth.

- Broadly, poultry housing systems are classified into three systems:

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- 1. Free range or extensive system**
- 2. Semi-intensive system**
- 3. Intensive system**
 - 1. Deep-litter system**
 - 2. Slatted floor system**
 - 3. Slat cum litter system**
 - 4. Cage system**

1) Free range system

- This system is adopted only when adequate land is available to ensure desired stocking density by avoiding overcrowding.
- We can rear about **250 adult birds per hectare**.
- A range provides shelter, greens, feed, water and shade.
- Foraging is the major source of feeding for birds.
- Shelter is usually provided by temporary roofing supported by ordinary poles.
- The fields are generally used on rotational basis after harvesting of crops by moving of birds from one field to another depending on cropping programme.
- All categories of birds can be reared in this system.
- This system is most preferred for organic egg production.

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Poultry House

- The birds are kept on suitable litter material of about **3” to 5” depth.**
- The word litter is used for fresh litter material spread on the floor.
- Usually paddy husk, saw dust, ground nut hulls, chopped paddy straw or wood shavings are used as litter materials.
- The litter is spread on the floor in layers of 2” height every fortnightly till the required is achieved.
- Vit B2 and Vit B12 are made available to birds from the litter material by the bacterial action.



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Role of Livestock in Indian Economy

- Livestock plays an important role in Indian economy.
- About 20.5 million people depend upon livestock for their livelihood.
- Livestock contributed 16% to the income of small farm households as against an average of 14% for all rural households.
- Livestock provides livelihood to two-third of rural community.
- It also provides employment to about 8.8 % of the population in India.
- India has vast livestock resources. Livestock sector contributes 4.11% GDP and 25.6% of total Agriculture GDP.

Livestock population (2019 Livestock census)

Sl. No	Species	Number (in millions)	Ranking in the world population
01	Cattle	192.49	Second
02	Buffaloes	109.85	First
	Total (including Mithun and Yak)	302.79	First
03	Sheep	74.26	Third
04	Goats	148.88	Second

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**REGION WISE DISTRIBUTION OF SHEEP AND GOAT
BREEDS IN INDIA**

REGIONS	SHEEP BREEDS	GOAT BREEDS
THE NORTHERN TEMPERATE REGION (JAMMU & KASHMIR, HIMACHAL PRADESH, UTTARAKHAND)	Changthangi (J & K)	Changthangi (J & K)
	Poonchi (J & K)	Gaddi (HP)
	Rampur Bushair (HP)	Chegu (HP)
	Gaddi (HP)	Pantja (Mostly available in Uttarakhand & UP)
	Gurez (J & K)	
	Karnah (J & K)	
	Bhakrawal (J & K)	
THE NORTH-WESTERN ARID AND SEMI-ARID REGION (PUNJAB, HARYANA, RAJASTHAN, GUJRAT, MADHYA PRADESH, UTTAR PRADESH)	Nali (Rajasthan)	Beetal (Panjab)
	Malpura (Rajasthan)	Jhakrana (Rajasthan)
	Chokla (Rajasthan)	Barbari (UP & Rajasthan)
	Marwari (Rajasthan & Gujarat)	Jamnapari (UP)
	Magra (Rajasthan)	Marwari (Rajasthan)
	Jaisalmeri (Rajasthan)	Kutchi (Gujarat)
	Pugal (Rajasthan)	Mehsana (Gujarat)
	Sonadi (Rajasthan)	Sirohi (Rajasthan & Gujarat)
	Patanwadi (Gujarat)	Zalawadi (Gujarat)
	Muzzafarnagari (UP & Uttarakhand)	Gohilwadi (Gujarat)
	Jalauni(UP& MP)	Surti (Gujarat)

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Region Wise Distribution of Cattle, Buffalo, Sheep and Goat Breeds in India

REGIONS	SHEEP BREEDS	GOAT BREEDS	CATTLE BREEDS	BUFFALO BREEDS
THE SOUTHERN PENINSULAR REGION (MAHARASHTRA, TELENGANA, ANDHRA PRADESH, KARNATAKA, TAMILNADU, KERALA) & ANDAMAN AND NICOBAR ISLANDS	Kenguri, Deccani, Nellore, Bellary, Madras Red, Hassan, Mandya, Tiruchy Black, Nilgiri, Mecheri Coimbatore, KilakarsalVembur, Ramnad White Katchaikatty Black Chevaadu	Sangamneri, Osmanbadi, Malabari, Kannaiadu, Berari, Kankan Kanyal, Attapady, Kodi Adu, Teressa	Deoni, Red Kandhari, Ongole, Punganur, Motu, Amritmahal, Hallikar, Khillar, Krishna Valley, MalnadGidda, Bargur, Kangayam, Umblachery, Pulikulam, Vechur,	Marathwadi, Pandharpuri, Nagpuri, Toda