

DEER



EXERCISE BOOK

Name	Jamal Uca
Class	5/3/11
Subject	Breeding birds of Bihar
School	Witla

(1)

Order	Family	Breeding season
Passeres	Corvidae	March to May
"	"	December to May
"	"	April to July
"	Paridae	February to November
"	"	April to September
"	Sittidae	February to May
"	"	April to June
"	Timaliidae	March to September
"	"	Monsoon
"	"	March to September
"	"	April to July
"	"	May to September
"	"	June to September
"	"	March to May
"	"	April to July
"	"	January to June
"	"	May to September
"	"	" " "
"	"	May to August-
"	"	April to August-

Birds breeding in Bihar

(1)

English name -	Latin name
✓ 1. Indian Jungle Crow -	<i>Corvus macrorhynchos</i>
✓ 2. House Crow -	" <i>splendens</i>
✓ 3. Tree pie -	<i>Cypsinina vagabunda</i>
✓ 4. Grey Tit -	<i>Parus major</i>
✓ 5. Yellow-cheeked tit -	" <i>xanthogenys</i>
✓ 6. Chestnut-bellied Nuthatch -	<i>Sitta castanea</i>
✓ 7. Velvet-fronted " -	" <i>frontalis</i>
✓ 8. Jungle Warbler -	<i>Turdoides somervillei</i>
9. Striated " -	" <i>earlii</i>
✓ 10. Common " -	" <i>caudata</i>
● 11. Red capped Warbler -	<i>Timalia pileata</i>
✓ 12. Rufous bellied " -	<i>Dumetia hyperythra</i>
✓ 13. Yellow eyed " -	<i>Chrysomma sinensis</i>
✓ 14. Spotted " -	<i>Pellorneum ruficeps</i>
15. Yellow breasted " -	<i>Mixornis rubricapilla</i>
16. Quaker " -	<i>Aleippe poiocephala</i>
✓ 17. Common Iora -	<i>Aegithina tithia</i>
● 18. Marshall's Iora -	" <i>nigrolutea</i>
✓ 19. Gold fronted Chloropsis -	<i>Chloropsis aurifrons</i>
✓ 20. Jerdon's " -	" <i>jerdonii</i>

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Order	Family	Breeding Season
Passeres	Pyronotidae	February to August-
"	"	March to September
"	"	February to September
"	"	March to September
"	"	February to September
"	Certhiidae	March and April
"	Turdidae	February to May
"	"	April and May
"	"	February to August
"	"	March to August-
"	"	March to July
"	"	March to June
"	"	April to August-
"	"	February to August-
"	Muscicapidae	February to June
"	"	May and June
"	"	May to July
"	"	April to August-
"	"	March to August-
"	"	March to July

21.	English name	Latin name
✓21.	Red vented Bulbul	<i>Pyemonotus cafer</i>
✓22.	White checked "	" <i>leucogenys</i>
✓23.	Red Whiskered "	" <i>jacsona</i>
24.	Black crested Y. "	" <i>flaviventris</i>
✓25.	White browed "	" <i>lutealus</i>
26.	Spotted Grey Creeper	<i>Salpornis spilonotus</i>
✓27.	Stone chat	<i>Saxicola caprata</i>
✓28.	Terdon's bush chat	<i>Oriocola terdonii</i>
●29.	Brown Rosell chat	<i>Cusonda fusca</i>
✓30.	Indian Robin	<i>Saxicola fuscata</i>
✓31.	Maggi Robin	<i>Copsychus saularis</i>
✓32.	chama	" <i>malabaricus</i>
33.	Orange headed Ground Thrush	<i>Zosterops citrina</i>
✓34.	Whistling Thrush	<i>Myiophonus horrefieldii</i>
✓35.	Tickell's blue flycatcher	<i>Muscipicus muscipica tickellii</i>
36.	Brown flycatcher	<i>Alcedo labrostris</i>
✓37.	Paradise flycatcher	<i>Terpsiphona paradisa</i>
✓38.	Black naped blue flycatcher	<i>Hypothymis azurea</i>
39.	White-browed Fantail "	<i>Rhipidura aureola</i>
40.	White throated " "	" <i>albicollis</i>

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Order	Family	Breeding season
Passeres	Muscicapidae	March to July
"	Laniidae	January to October
"	"	April to September
"	"	April to July
"	"	February to July
"	"	March to May
"	"	February to July
"	Perisoretidae	April to July
"	"	April to July (Netherlands only)
"	"	May and June
"	"	March to May
"	"	March to September
"	"	March to August
"	"	May to October
"	Artamidae	April to June
"	Dicruridae	April to August
"	"	May and June
"	"	March to June
"	"	April to June
"	"	March to June

English name	Latin name
✓ 41. White spotted Fantail flycatcher	<i>Rhipidura pectoralis</i>
✓ 42. Grey shrike	<i>Lanius tleubitor</i>
✓ 43. Bay-backed shrike	" <i>vittatus</i>
✓ 44. Black headed "	" <i>Schach ^{tricolor} nipalensis</i>
✓ 45. Rufous backed "	" <i>" nipalensis</i>
46. Black headed Acid shrike	<i>Hemipus picatus</i>
✓ 47. Wood shrike	<i>Tephrodornis pondicerianus</i>
✓ 48. Scarlet Minivet	<i>Pericropterus ^{co} flammeus</i>
✓ 49. Short-billed Minivet	" <i>brevirostris</i>
50. Rosy "	" <i>roseus</i>
✓ 51. Small "	" <i>peregrinus</i>
● 52. White bellied "	" <i>erythropygus</i>
✓ 53. Black headed Cuckoo shrike	<i>Coracina sykesii</i>
✓ 54. Large Cuckoo shrike	" <i>novaeollandiae</i>
✓ 55. Ashy Swallow shrike	<i>Artamus fuscus</i>
✓ 56. Black Drongo	<i>Dicurus macrocerus</i>
57. Grey "	" <i>longicaudatus</i>
✓ 58. White bellied Drongo	" <i>caerulescens</i>
59. Bronzed "	<i>Chaptia aenea</i>
60. Hair Crested "	<i>Dicurus hottentottus</i>

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Order	Family	Breeding Season
Passeres	Dienvidae	April to June
"	"	April & May
"	Syriidae	February to June
"	"	May to July
"	"	April to October
"	"	April to June
"	"	March to September
"	"	February to September
"	"	April to June
"	"	July to September
"	"	March to June
"	"	March to September
"	"	June to September
"	"	" " "
"	Oriodidae	May to August
"	"	February to July
"	Eulabetidae	March to May
"	"	April and May
"	sturnidae	April to June
"	"	May to July

English name	Latin name
61. Lesser R. tailed Tanager	<i>Dicaeetus remifer</i>
✓ 62. Large " " "	" <i>paradisicus</i>
● 63. Grey backed Warbler	<i>Agrobates galactodes</i>
✓ 64. Tailor bird	<i>Orthotomus Antonius</i>
✓ 65. Streaked Fantail Warbler	<i>Cisticola junliidis</i>
● 66. Franklin's Wren " "	<i>Frankilliana gracilis</i>
● 67. Rufous fronted Wren " "	" <i>buchananii</i>
68. Long tailed Grass Warbler	<i>Laticilla burnesii</i>
69. Striated marsh " "	<i>Megalurus palustris</i>
70. Bristled grass " "	<i>Chaetornis striatus</i>
● 71. Streaked wren " "	<i>Prinia gracilis</i>
✓ 72. Ashy Wren " "	" <i>socialis</i>
● 73. Jungle " " "	" <i>cythraea</i>
✓ 74. Indian " " "	" <i>inornata</i>
✓ 75. Indian Oriole	<i>Oriolus oriolus</i>
✓ 76. Black headed Oriole	" <i>xanthornus</i>
✓ 77. Southern Flycatcher	<i>Pracula religiosa indica</i>
78. Indian " " "	" " <i>intermedia</i>
✓ 79. Grey headed Myra	<i>Sturus malabaricus</i>
✓ 80. Black headed " " "	" <i>pagodarum</i>

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Order	Family	Breeding season
Passeres	Sturnidae	March to August-
"	"	April to August-
"	"	February to July,
"	"	March to September,
"	Phoenicidae	March to August-
"	"	May to September,
"	"	February to September,
"	"	June to September,
"	"	Throughout the year
"	"	" " "
"	"	July to September,
"	"	October to January,
"	"	June to October,
"	Fringillidae	April to June
"	"	" " "
"	"	April to August-
"	Hirundinidae	November to April
"	"	February & May & July to October,
"	"	February to April & August to October,
"	"	January & March & July to October

	English name	Latin name
✓81.	Common myna	<i>Sturnus tristis</i>
✓82.	Rank "	" <i>ginginianus</i>
83.	Jungle "	" <i>fuscus</i>
✓84.	Pied "	" <i>contra</i>
✓85.	Baya	<i>Ploceus philippinus</i>
86.	Black throated Baya	" <i>benghalensis</i>
✓87.	striated Baya	" <i>manyar</i>
88.	Chestnut bellied muna	<i>Lonchura feminea</i>
✓89.	White baelled "	" <i>striata</i>
✓90.	White throated "	" <i>malabarica</i>
✓91.	spotted "	" <i>punctulata</i>
92.	Green "	<i>stictospiza formosa</i>
✓93.	Red "	<i>Estrilda amandava</i>
✓94.	Yellow throated sparrow	<i>Lymnorchis xantholepis</i>
✓95.	House sparrow	<i>Passer domesticus</i>
96.	Crested Bunting	<i>Melophus lathamii</i>
97.	Indian Sand Martin	<i>Riparia paludicola</i>
✓98.	Dusky Crag martin	" <i>corpo lor</i>
✓99.	Wire-tailed Swallow	<i>Hirundo smithii</i>
100.	cliff Swallow	" <i>fluvicola</i>

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Order	Family	Breeding season
Passeres	Hirundinidae	April to August
"	Motacillidae	March to May & July to September
"	"	February to October
"	Alcedidae	February to July
"	"	March & April, July in Bihar
"	"	June to September
"	"	May to October
"	"	May and June
"	"	March to July
"	"	June to October
"	"	February to May
"	"	February to May & August to October
"	Zosteropidae	April to July
"	Nectariniidae	April to July
"	"	March to May
"	"	Throughout the year
"	Dicaeidae	February to June
"	"	February to April
"	Pittidae	April to August
"	"	April to July

English name	Latin name
101. Red rumped Swallow	<i>Hirundo daurica</i>
✓ 102. Large pied Wagtail	<i>Motacilla madagascariensis</i>
✓ 103. Indian pipit	<i>Anthus richardi rufulus</i>
✓ 104. Indian skylark	<i>Alauda gulqula</i>
105. Ganges Sand lark	<i>Alaudula raytal</i>
106. Singing bush lark	<i>Mirafa cantillans</i>
107. Bush lark	" <i>asamica</i>
108. Red winged bush lark	" <i>erythroptera</i>
✓ 109. Crested lark	<i>Galerida cristata</i>
110. Sykes's Crested lark	" <i>deva</i>
111. Rufous Tailed Finch lark	<i>Ammodramus thoenicurus</i>
✓ 112. Ashy crowned " "	<i>Eremophila grisea</i>
✓ 113. White eye	<i>Zosterops palpebrosa</i>
✓ 114. Yellow backed Sunbird	<i>Aethopygia siparaja</i>
✓ 115. Purple Sunbird	<i>Nectarina asiatica</i>
✓ 116. Purple rumped " "	" <i>zeilonica</i>
✓ 117. Titchell's flowerpecker	<i>Dicaeum erythrorhynchum</i>
✓ 118. Thick billed F. "	" <i>agile</i>
✓ 119. Indian Pitta	<i>Pitta brachyura</i>
120. Green breasted Pitta	" <i>cuculata</i>

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Order	Family	Breeding Season
Cocciiformes	Picidae	March to May
"	"	April to July
"	"	January to May
"	"	February to July
"	"	April to June
"	"	March to August-
"	"	January & February
"	"	March to May
"	Capitonidae	March to August-
"	"	January to October
"	Eucelididae	April to June
"	"	April to July
"	"	June & July March to June
"	"	July to October
"	"	April to June
"	"	June to August-
"	"	April to August-
"	"	April to August-
"	"	April to August-
"	"	March to August- (In Mantoom Lowther says April to sept.)

English name	Latin name
✓ 121. L. scaly bellied greenw. pecker	<i>Picus vittatus</i>
122. Fulvous breasted pied W. pecker	<i>Dryobates macii</i>
✓ 123. Yellow fronted " " "	<i>Dendroscopus mahrattensis</i>
124. Pigmy Wood pecker	" <i>moluccensis</i>
125. Rufous Wood "	<i>Micropternus brachyurus</i>
✓ 126. Golden backed "	<i>Dinopium benghalensis</i>
127. Black " "	<i>Chrysocolaptes festivus</i>
128. Tickell's Golden b. "	" <i>lucidus</i>
✓ 129. N. green Barbet	<i>Megalaima zeylanica</i>
✓ 130. Crimson breasted Barbet	" <i>haemacephala</i>
● 131. Cuckoo	<i>Cuculus canorus telephonus</i>
132. Indian Cuckoo	" <i>micropterus</i>
✓ 133. Common Hawk Cuckoo	" <i>varius</i>
134. Plaintive "	<i>Coccyzus merulinus</i>
135. Drongo cuckoo	<i>Surniculus lugubris</i>
✓ 136. Red crested "	<i>clamator jacobinus</i>
137. Red winged "	" <i>coromandus</i>
✓ 138. Keel	<i>Eudynamis scolopacea</i>
139. Large green billed Malkoha	<i>Rhopodytes tristis</i>
140. Six keel Cuckoo	<i>Taccouera leschenaulti</i>

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Order	Family	Breeding Season
Coraciiformes	Cuculidae	May to August -
"	"	May to September
"	Pittidae	December to April
"	"	February to April
"	"	February to April
"	Coraciidae	March to June
"	Meropidae	February to June
"	"	March to June
"	"	March to May
"	"	February to August -
"	Alcedinidae	October to May
"	"	March to June
"	"	No record
"	"	January to July
"	"	March to June
"	"	April to June
"	Bucconidae	March to June
"	"	March to May
"	"	April to June
"	Upupidae	February to April

English name	Latin name
✓ 141. Crow pheasant	<i>Centropus sinensis</i>
142. Lesser Coucal	" <i>bengalensis</i>
✓ 143. L. Indian Parakeet	<i>Ptilinopus eupatria</i>
✓ 144. Rose Ringed "	" <i>trameri</i>
✓ 145. Blossom headed "	" <i>cyanocephala</i>
✓ 146. Indian Roller	<i>Coracias benghalensis</i>
✓ 147. Green Bee-Eater	<i>Merops orientalis</i>
✓ 148. Blue-tailed B. "	" <i>philippinus</i>
✓ 149. Chestnut-headed Bee-Eater	" <i>leschenaulti</i>
✓ 150. Blue bearded " "	<i>Nyctinxis aethiopi</i>
✓ 151. Pied Kingfisher	<i>Ceryle rudis</i>
✓ 152. Common "	<i>Alcedo albis</i>
153. Bevan's "	" <i>meninting</i> ^P
✓ 154. Stork-billed "	<i>Ramphaleyon capensis</i>
✓ 155. White-breasted "	<i>Haleyon sumyrensis</i>
156. Black-capped "	" <i>pileata</i> ^P
✓ 157. Pied Hornbill	<i>Anthracoceros coronatus</i>
158. Large pied "	" <i>malabaricus</i>
✓ 159. Grey Hornbill	<i>Tockus birsithis</i>
✓ 160. Indian hoopoe	<i>Upupa e. orientalis</i>

Order	Family	Breeding season
Coraciiformes	Trogonidae	February to May
"	Micropidae	May and June
"	"	February to September
"	"	March to June
"	"	March, April
"	"	March to May
"	Caprimulgidae	March to May
"	"	March to May
"	"	March to June
"	"	March to August
"	"	March to September
"	Tytonidae	Throughout the year
"	"	October to March
"	Asionidae	February to April
"	"	December to March
"	"	November to April
"	"	December to April
"	"	January to April
"	"	March, April
"	"	February to April

	English name	Latin name
✓161.	Malabar Trogon	Harporhynchus fasciatus ?
✓162.	Alpine Swift	Apus melba ?
✓163.	House " "	" affinis
✓164.	Palm " "	Cyprius parvus
165.	White rumped spintail	Indicapus sylvaticus ?
166.	crested Swift	Hemiprocne coronata
✓167.	Longtailed Night-jar	Caprimulgus macrurus
168.	Jungle " "	" indicus
169.	Sykes's " "	" maharattensis
170.	Franklin's " "	" monticolus
✓171.	Indrain " "	" asiaticus
✓172.	Barn owl	Tyto alba
173.	Gyan " "	" longimembris
174.	Mottled Wood owl	strix ocellata
✓175.	Brown fish owl	Bubo zeylonensis
✓176.	Great Horned "	Bubo bubo
177.	Darky " "	" coromandus
178.	Forest-Collared scops owl	otus asiis
179.	Scops owl	" sumia
✓180.	spotted owl	Athene brama

Order	Family	Breeding Season
Coraciiformes	Asiornidae	April, May
"	"	"
"	"	June, July
Accipitres	Aegyptidae	December to April
"	"	November to March
"	"	December, January
"	"	October to March
"	"	February to May
"	Falconidae	March to June
"	"	January to April
"	"	January to March
"	"	November to April
"	"	April to June, July at Painsath
"	"	November to February
"	"	December to March
"	"	November to March
"	"	December to April
"	"	December to March
"	"	April, May
"	"	March to May

English name	Latin name
181. Jungle spotted owl	<i>Glaucidium radiatum</i>
182. Banded owl	" <i>Cuculoides rufescens</i>
183. Brown Hawk owl	" <i>Ninox scutulata</i>
✓ 184. Pondichery Vulture	" <i>Sarcogyps calvus</i>
185. Griffon "	" <i>Gyps fulvus</i>
186. Long billed "	" <i>indicus</i>
✓ 187. White backed "	" <i>Pseudogyps bengalensis</i>
✓ 188. Scavenger "	" <i>Nephron pereonopterus</i>
✓ 189. Shakin Falcon	" <i>Falco p. peregrinator</i>
✓ 190. Lagger "	" <i>jagger</i>
✓ 191. Red headed Merlin	" <i>chiquera</i>
✓ 192. Tawny Eagle	" <i>Aquila rapax</i>
193. Small spotted Eagle	" <i>pomarina</i>
● 194. Bonnell's "	" <i>Hieraetus fasciatus</i>
195. Rufous bellied Hawk Eagle	" <i>Lophotriorchelis kieneri</i> ?
✓ 196. Black Eagle	" <i>leitinaetus malayensis</i>
197. Crested Hawk Eagle	" <i>spizaetus cirrhatu</i> °
✓ 198. Short-toed "	" <i>Circus ferox</i>
✓ 199. Crested serpent Eagle	" <i>Haematornis cheela</i>
✓ 200. White-eyed buzzard "	" <i>Buteo tesa</i>

Order	Family	Breeding Season
Accipitres	Falconidae	November to March
"	"	November to February
"	"	December to April
"	"	December to March
"	"	December to March & July to October
"	"	April, May
"	"	April to June
Columbae	Columbidae	March to July
"	"	March to June & July - August
"	"	March to August
"	"	March to August
"	"	June & July
"	"	March to May
"	"	Throughout the year
"	"	May to July
"	"	Throughout the year
"	"	March to June & Sept. - October
"	"	Throughout the year
"	"	" " "
"	"	April to June

English name	Latin name
✓ 201. Pallas's Fishing Eagle	- <i>Haliaeetus leucoryphus</i>
202. Grey headed " "	- <i>Icthyophaga ichthyactis</i>
✓ 203. Brahmīnī Vīte	- <i>Haliastur indus</i>
✓ 204. Pariah " "	- <i>Milvus migrans</i>
✓ 205. Black winged " "	- <i>Elanus ^{caeruleus} caeruleus</i>
✓ 206. Shikra	- <i>Accipiter badius</i>
207. Crested honey buzzard	- <i>Pernis ptilorhynchus</i>
✓ 208. Green pigeon	- <i>Trogon philicoptera</i>
209. Ashy headed g. pigeon	- <i>Dendrophasa pompadora</i>
210. Orange breasted g. "	- " <i>bicolor</i>
211. Pin tailed g. " "	- <i>Sphenocercus apicaudus</i>
212. G. Imperial " "	- <i>Muscadivora aenea</i>
✓ 213. Emerald Dove	- <i>Chalcophaps indica</i>
✓ 214. Blue Rock pigeon	- <i>Columba livia</i>
215. Purple Wood " "	- <i>Abolomon purpureus</i>
✓ 216. Rufous turtledove	- <i>Streptopelia orientalis meena</i>
✓ 217. Spotted " "	- " <i>chinensis</i>
218. Little brown " "	- " <i>senegalensis</i>
✓ 219. Ringed " "	- " <i>decaocto</i> "
✓ 220. Red turtle " "	- <i>Oenopopelia tranquebena</i>

Order	Family	Breeding Season
Pterocletes	Pteroclididae	April to June
"	"	March to May
Gallinae	Phasianidae	June to September
"	"	January to October
"	"	February to May
"	"	May - June
"	"	January to June
"	"	February to June
"	"	June & July
"	"	March to May
"	"	June to October
"	"	September to April
"	"	" "
"	"	June to January
"	"	April to July
"	"	June to September
"	"	April
"	"	March - April & August - Sept!
Hemipodii	Turnicidae	Throughout - the year
"	"	June to August.

English name	Latin name
221. Painted Sand Plover	Pterocles indicus
✓ 222. Common " "	" exustus
✓ 223. Peafowl	Pavo cristatus
✓ 224. Red Jungle fowl	Gallus gallus
✓ 225. Grey " "	" sonnerati
F 226. Nepal Kaly pheasant	Lophura leucomelana
✓ 227. Red spur fowl	Gallus perdicus spadicea
228. Painted " "	" lunulata
229. Blue breasted Quail	Excalfactoria chinensis
✓ 230. Grey Quail	Coturnix Coturnix
✓ 231. Rain " "	" coromandelica
✓ 232. Jungle bush " "	Perdicula asiatica
233. Rock " "	" argoondah
✓ 234. Blewitt's Quail	Cryptoplecteron erythrorhynchos
✓ 235. Macq Partridge	Francolinus francolinus
✓ 236. Painted " "	" pictus
237. Swamp " "	" gularis
✓ 238. Grey " "	" pondicerianus
✓ 239. Bustard Quail	Turnix soolivator
F 240. Little button " "	" sylvatica

Order	Family	Breeding Season
Hemipodii	Turnicidae	May to September
Gallae	Rallidae	July to September
"	"	June to September
"	"	June to October
"	"	May to September
"	"	June to August -
"	"	June to September
"	"	June to September
"	"	July - August
"	Talavae	July & August -
"	"	June to September
"	Rostratulidae	Throughout the year
"	Iyridae	July to September
"	Otididae	Throughout the year
"	"	September - October
"	"	March & April; June in Purnea
Charadriiformes	Oedienimidae	April to June
"	"	February to May
"	Iyaresidae	March to August -
"	"	March to June

English name	Latin name
241. Indian button quail	<i>Ternix maculatus</i>
242. Baillon's Crane	<i>Porzana pusilla</i>
243. Northern Ruddy Crane	<i>Amaurornis fuscus</i>
244. White breasted Waterhen	" <i>phoeniceus</i>
245. Brown Crane	" <i>akoti</i>
246. Moorhen	<i>Gallinula chloropus</i>
247. Water Cock	<i>Gallicerax cinerea</i>
248. Purple moorhen	<i>Porphyrio porphyrio</i>
249. Coot	<i>Fulica atra</i>
250. Bronze Winged Jacana	<i>Metopidius indicus</i>
251. Pleasant tailed "	<i>Hydrophasianus chirurgus</i>
252. Painted snipe	<i>Rostratula benghalensis</i>
253. Sarus Crane	<i>Antigone antigone</i>
254. Great Bustard	<i>Chotiis nigiceps</i>
255. Lesser Florican	<i>Syphoetides indica</i>
256. Bengal "	<i>Hembaropsis benghalensis</i>
257. Stone plover	<i>Burhinus oedichenus</i>
258. Great Stone Plover	<i>Esacus recurvirostris</i>
259. Indian Spur Courser	<i>Cursorius Coromandelicus</i>
260. Pratincole	<i>Glareola maldivarum</i>

Order	Family	Breeding season
Charadriiformes	lapresididae	March + April
"	steroidae	January to September
"	"	April - May
"	"	March to May
"	"	February to April
"	"	March + April
"	"	Time not well known
"	Rhynospidae	March to May
"	Charadriidae	March + April
"	"	March + April
"	"	March to July
"	"	March to June
"	"	April to August -
"	Scelopacidae	March to July
Steganopodes	Pelecanidae	November to April
"	Phalacrocoracidae	November to January
"	"	July to September
"	"	July to September
"	"	June to August -
Herodiones	Plataleidae	August - to November

English name	Latin name
261. Small pratincole	<i>Sparula lactea</i>
✓ 262. Whiskered Tern	<i>Chlidonias leucoparvia</i>
● 263. Gull-billed "	<i>Lyschelidon nilotica</i>
✓ 264. River Tern	<i>Sterna aurantia</i>
265. Black bellied Tern	" <i>melanogaster</i>
● 266. River Ternlet	" <i>albifrons</i>
267. Sooty Tern	" <i>fusca</i> ?
268. Indian skimmer	<i>Rhyncops albicollis</i>
✓ 269. Little Ringed Plover	<i>Charadrius dubius</i>
270. Spur-winged "	<i>Hoplopterus duvauceli</i>
✓ 271. Red Wattled Lapwing	<i>Lobivanellus indicus</i>
✓ 272. Yellow " "	<i>Lobipluvia malabarica</i>
✓ 273. Black-winged stilt stilt	<i>Himantopus himantopus</i>
✓ 274. Fantail snipe	<i>Capella galinago</i>
✓ 275. Spotted bill Pelican	<i>Pelecanus roseus</i>
276. Large Cormorant	<i>Phalacrocorax Carbo</i>
277. Shag	" <i>fuscollis</i>
✓ 278. Little Cormorant	" <i>niger</i>
✓ 279. Snake bird	<i>Anhinga rufa</i>
✓ 280. Spoonbill	<i>Platalea leucorodia</i>

(15)

Order	Family	Breeding season
Herodias	Ibididae	June to August.
"	"	Throughout the year
"	"	April to June
"	Ciconiidae	June to September
"	"	October to December
"	"	October to December
"	"	November to January
"	"	September to January
"	"	July & August.
"	Ardeidae	July to September
"	"	April to September
"	"	July to September
"	"	July to September
"	"	July to August.
"	"	June to August.
"	"	May to September
"	"	May to August.
"	"	June to September
"	"	June to September
"	"	June to September

English name	Latin name
✓ 281. White Ibis	- <i>Threskiornis melanoccephalus</i>
✓ 282. Black "	- <i>Pseudibis papillosa</i>
● 283. Glossy "	- <i>Plegadis falcinellus</i>
✓ 284. White-necked stork	- <i>Ciconia episcopus</i>
● 285. Black " "	- <i>Xenorhynchus asiaticus</i>
✓ 286. Adjutant "	- <i>Leptoptilos dubius</i>
287. Lesser adjutant	- " <i>savanicus</i>
✓ 288. Painted stork	- <i>Ibis leucocephalus</i>
✓ 289. Open bill	- <i>Anastomus oscitans</i>
● 290. Purple Heron	- <i>Ardea purpurea</i>
✓ 291. Grey "	- " <i>cinerea</i>
292. Large Egret	- <i>Egretta alba</i>
● 293. Smaller "	- " <i>intermedia</i>
✓ 294. Little "	- " <i>garzetta</i>
✓ 295. Cattle "	- <i>Bubulcus ibis</i>
✓ 296. Pond Heron	- <i>Ardeola grayii</i>
● 297. Little green "	- <i>Butorides striatus</i>
✓ 298. Night- Heron	- <i>Nycticorax nycticorax</i>
299. Yellow Bittern	- <i>Ixobrychus sinensis</i>
300. Chestnut- "	- " <i>cinnamomeus</i>

(16)

Order	Family	Breeding Season
Herodiasnes	Ardeidae	June to September
Anseres	Anatidae	June to September
"	"	May to July
"	"	July to September
"	"	June to September
"	"	Throughout the rains
"	"	July to September
Pygopsdes	Podicipidae	April to October

English name	Latin name
301. Black bittern	<i>Depetor flavicollis</i>
302. Nukka	<i>Sarkidiornis melanotos</i>
303. Pink headed duck	<i>Rhodonessa caryophyllacea</i>
304. Cotton teal	<i>Nettapus cosmanandelianus</i>
305. Whistling teal	<i>Dendrocygna javanica</i>
306. la. " "	" <i>fulva</i>
307. Spot-bill	<i>Anas psecilorhyncha</i>
308. Little grebe	<i>Podiceps ruficollis</i>

Changes in Breeding plumage

1. Common Iora male - In breeding plumage the head and back become black instead of yellowish-green.
2. Marshall's Iora male - Except the back the entire upper plumage becomes black instead of greenish-yellow.
3. Tailorbird male - The middle tail feathers become longer than the others by about 2 inches.
4. Baya male - The head and neck become golden-yellow instead of fulvous-brown and the breast turns golden-yellow from fulvous, the rest of the upper plumage is brownish black edged with yellow instead of fulvous brown.
5. Black-throated Baya male - The forehead and crown are golden yellow instead of dark brown and the breast changes from fulvous to black.
6. Striated Baya male - The crown and head become golden yellow from black.
7. Purple Sunbird male - The entire bird becomes purple-black instead of greenish above and light-yellow with a black stripe below.
8. Water cock male - The head and neck are black instead of dark brown and the lower plumage changes into black from buffy brown and white. A red horn projects

backwards from the base of the bill.

9. Pheasant tailed Jacana - The upper plumage is black instead of brown, the head, throat and wings being white; the entire lower plumage changes into black from white; the tail ~~is~~ lengthens by six inches and looks pheasant like.
10. Lesser Florican male - The lower plumage is black instead of buffy white and six upper curved plumes spring from the sides of the head.
11. Bengal Florican male - The head, neck, back and the entire lower plumage change into black from buff, a full crest.
12. Whiskered Tern - The head becomes black instead of white and the abdomen turns into black from dark grey.
13. River Tern - The crown and sides of head are black glossed with-green instead of grey and there is a white spot below each eye.
14. Black bellied Tern - The lower parts change into black from white and the top of the head is black instead of white streaked ^{with} black.
15. Grey Pelican - The wings and tail become brown with a silvery sheen instead of brown, the lower plumage

is suffused with pink and there is a small brownish crest on the nape.

16. Large Cormorant — There are silky & white plumes over the head and a broad white patch on the posterior flanks.
17. Little Cormorant — Develops silky white feathers on the head and neck.
18. White Ibis — Develops elongated white feathers round the base of the neck and plumes on the breast.
19. Large Egret — Three sets of plumes develop from the scapulars and extend beyond the tail and the bill becomes black instead of yellow.
20. Smaller Egret — White plumes are developed and the bill turns black from yellow.
21. Little Egret — A crest of two very long feathers and plumes over the breast and beyond the tail develop.
22. Cattle Egret — Orange hair like plumes develop from the back of the head, neck and back.
23. Pond Heron — The back becomes maroon instead of ashy brown and a long white crest develops.
24. Pink headed duck male — A tuft of deep pink feathers develops on the crown.

25. Cotton Teal male — Develops a black collar round the lower neck.
26. Little Grebe — The upper plumage becomes black instead of brown presenting a very contrasting picture of black and white.

ARITHMETICAL TABLES

NUMERATION TABLE.

Units	1	2	3	4	5	6	7	8	9
Tens	10	20	30	40	50	60	70	80	90
Hundreds	100	200	300	400	500	600	700	800	900
Thousands	1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
Tens of Thousands	10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
C. of Thousands	100,000	200,000	300,000	400,000	500,000	600,000	700,000	800,000	900,000
Millions	1,000,000	2,000,000	3,000,000	4,000,000	5,000,000	6,000,000	7,000,000	8,000,000	9,000,000
Tens of Millions	10,000,000	20,000,000	30,000,000	40,000,000	50,000,000	60,000,000	70,000,000	80,000,000	90,000,000
C. of Millions	100,000,000	200,000,000	300,000,000	400,000,000	500,000,000	600,000,000	700,000,000	800,000,000	900,000,000

AVOIRDUPOIS WEIGHT.
For all Goods, except Gold, Silver and Jewels.

16 Drams	1 Ounce	(oz.)
16 Ounces	1 Pound	(lb.)
14 Pounds	1 Stone	(st.)
28 Pounds	1 Quarter	(qr.)
4 Quarters	1 Hundredweight (cwt.)	
20 Cwt.	1 Ton.	

IMPERIAL DRY MEASURE.
Avoird. of Water.

2 Galls	1 Gill	= 0 5
4 Gills	1 Pint	= 1 4
2 Pints	1 Quart	= 2 8
4 Quarts	1 Gallon	= 10 0
2 Gallons	1 Peck	= 20 0
4 Pecks	1 Bushel	= 80 0
8 Bushels	1 Quarter	= 610 0

STERLING MONEY TABLE.

4 Farthings	1 Penny (d)
12 Pence	1 Shilling (s.)
2 Shillings	1 Florin
2 Shillings & 6 pence	1 Half Crown.
5 Shillings	1 Crown.
10 Shillings	1 Half Sov.
20 Shillings	1 Sov. or 1 Pound (l)
21 Shillings	1 Guinea.

HAY AND STRAW WEIGHT.

30 Bu Straw	1 Tuss.
36 lbs. Old Hay	1 Tuss.
60 lbs. New Hay	1 Tuss.
36 Trusses	1 Load.

SQUARE MEASURE.

144 Square Inches	1 Square Foot.
9 Square Feet	1 Square Yard.
30 1/2 Square Yards	1 Square Pole.
40 Square Poles	1 Rood.
4 Roods	1 Acre.
640 Acres	1 Square Mile.

ARITHMETICAL SIGNS.

- + Plus; Sign of Addition.
- Minus; Sign of Subtraction
- ÷ Sign of Division.
- = Sign of Equality.
- ∝ Sign of Proportion.
- √ Sign of the Square Root.
- ∛ Sign of the Cube Root.
- ° Degree, ' minute, '' second.
- ∴ Therefore.

LONG OR LINEAR MEASURE.

12 Lines	1 Inch	(in.)
12 Inches	1 Foot	(ft.)
3 Feet	1 Yard	(yd.)
6 Feet	1 Fathom	(f.)
5 1/2 Yards	1 Pole	(pt.)
40 Poles	1 Purlong	(fur.)
8 Furlongs or 1760 Yards	1 Mile.	

TABLE OF MOTION.

60 Seconds	1 Minute.
60 Minutes	1 Degree.
30 Degrees	1 Sign.
12 Signs or 360°	the circle of the earth.

TROY WEIGHT—For Gold & Silver.

24 Grains	1 Pennyweight (dwt.)
20 Pennyweights	1 Ounce (oz.)

Precious Stones are weighed in Carats
(1 Metric Carat = 200 Milligrammes)

CLOTH MEASURE.

2 1/2 Inches	1 Nail
4 Nails	1 Quarter of a Yard.
4 Quarters	1 Yard.

TABLE OF TIME.

60 Seconds	1 Minute.
60 Minutes	1 Hour.
24 Hours	1 Day.
7 Days	1 Week.
4 Weeks	1 Lunar Month.
365 Days	1 Year.
366 Days	1 Leap Year.
52 Weeks	1 Year
12 Calendar or 13 Lunar Months	1 Year.

APOTHECARIES' WEIGHT.
For Mixing Medicines.

20 Grains	1 Scruple (scr.)
3 Scruples	1 Drachm (dr.)
8 Drachms	1 Ounce (oz.)

SOLID OR CUBIC MEASURE.

1728 Cubic Inches	1 Cubic Foot.
27 Cubic Feet	1 Cubic Yard.
1 1/4 Cubic Yards or 1 1/2 Rods	1 Rod of brickwork.

Days in the Months.

Thirty days have September,
April, June and November,
All the rest have thirty-one,
Excepting February alone,
Which has but twenty-eight days clear,
And twenty-nine in each leap year.

IMPERIAL HEAPED MEASURE.
Avoird. of water.

8 Gallons	1 Bushel	= 80
3 Bushels	1 Sack	= 240
12 Sacks	1 Chaldron	= 2880

MULTIPLICATION TABLES

2 TIMES	3 TIMES	4 TIMES	5 TIMES	6 TIMES	7 TIMES	8 TIMES	9 TIMES	10 TIMES	11 TIMES	12 TIMES
1 are 2	1 are 3	1 are 4	1 are 5	1 are 6	1 are 7	1 are 8	1 are 9	1 are 10	1 are 11	1 are 12
2 — 4	2 — 6	2 — 8	2 — 10	2 — 12	2 — 14	2 — 16	2 — 18	2 — 20	2 — 22	2 — 24
3 — 6	3 — 9	3 — 12	3 — 15	3 — 18	3 — 21	3 — 24	3 — 27	3 — 30	3 — 33	3 — 36
4 — 8	4 — 12	4 — 16	4 — 20	4 — 24	4 — 28	4 — 32	4 — 36	4 — 40	4 — 44	4 — 48
5 — 10	5 — 15	5 — 20	5 — 25	5 — 30	5 — 35	5 — 40	5 — 45	5 — 50	5 — 55	5 — 60
6 — 12	6 — 18	6 — 24	6 — 30	6 — 36	6 — 42	6 — 48	6 — 54	6 — 60	6 — 66	6 — 72
7 — 14	7 — 21	7 — 28	7 — 35	7 — 42	7 — 49	7 — 56	7 — 63	7 — 70	7 — 77	7 — 84
8 — 16	8 — 24	8 — 32	8 — 40	8 — 48	8 — 56	8 — 64	8 — 72	8 — 80	8 — 88	8 — 96
9 — 18	9 — 27	9 — 36	9 — 45	9 — 54	9 — 63	9 — 72	9 — 81	9 — 90	9 — 99	9 — 108
10 — 20	10 — 30	10 — 40	10 — 50	10 — 60	10 — 70	10 — 80	10 — 90	10 — 100	10 — 110	10 — 120
11 — 22	11 — 33	11 — 44	11 — 55	11 — 66	11 — 77	11 — 88	11 — 99	11 — 110	11 — 121	11 — 132
12 — 24	12 — 36	12 — 48	12 — 60	12 — 72	12 — 84	12 — 96	12 — 108	12 — 120	12 — 132	12 — 144