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**DEPARTMENT OF ZOOLOGY**



**STUDENT STUDY PROJECT  
ON  
POLYMORPHISM IN CNIDARIA  
AY:2016-17  
II YEAR B.Sc BZC**

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## ನೈವೆಂದ್ರಿಯ (ಸಿ.ಪಾಲುರ್)

ಬಹುರೂಪಕಲ್ಪಿ :- ಸಹಾರಿತ್ವ ಹೆಚ್ಚಿಲ್ಲದ್ದು ಹಿಂದಿನ ಜೀವಕರ್ಮಯ ವಿಶ್ವದಿಂದ ಒಳಗೊಳಿಸಿ  
ಜೀವಕರ್ಮ ಒక ಲಕ್ಷ್ಯಕ್ಕಿಂತ ದೀರ್ಘನ್ನಿಂದಿರುತ್ತದೆ. ಇಂಥ್ಯು ಜೀವಕರ್ಮಯ ಮನಾರ್ಥ  
ರೂಪಕರ್ಮಯಲ್ಲಿ ಮಹಿಳೆಯು ಅವನು ಅವನು ಅವನು "ಬಹುರೂಪಕಲ್ಪಿ" ಹಂತಕಾರ್ಯ.

చెందుకున్న పుష్టిలలో వివిధ వాయిధారాలు నీర్మిత్తించుడైనిి ఎట్లయితీ  
వివిధ వ్యివస్థలుంటుండు అనే విభంగం సితెంటర్లు పద్ధంతిని బుత్తచుచ్చ  
చేయిలు ఎన్ని? జెఫ్రెన్ వివిధ రంగులల్లి ఉండి అస్కె వ్యోపశాలను  
కీళ్లించుస్తాయి. ఖండువలన బిసికి బింబు దూహిల్లి కొంటుయ్యే రండ్రు

ప్రాంతిక ప్రముఖ చౌపు వాస్తవాన్ని తెలుగు లోపించి ఉన్నాడు.

- 1) బంచురూపక్కల ఉడియ స్తునవిషోరా జీవులలో ఇథికముగా ఊసుండును.  
వటి నించి వెళంళి తెడు రకముపైనే జీవికములును ఎదుల క్షీరుంపక్కల మంగలి,  
మూడు రకాలైన జీవికములను వారేల అఱుంపక్కల, మంగలి ఊసులు.

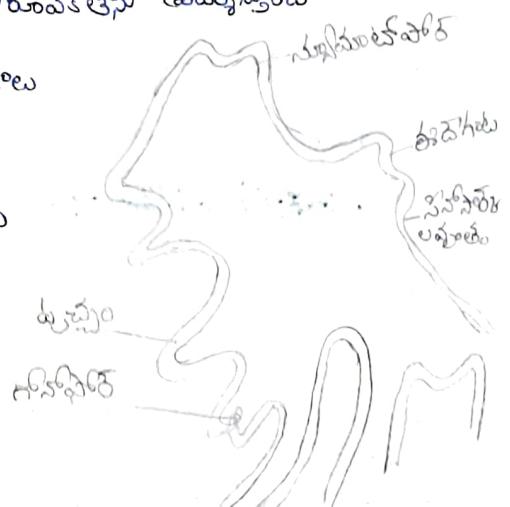
2) విక్కు జీవులలో చెప్పియిలనించిని ఇక్కొ తర్వాత నిర్విశ్వాసంవి. బంచుకు జీవులలో “ఏమ విభజన” అనేది ఒక ముఖ్య లక్ష్యం. ఏమ విభజన ఉండించు  
ప్రశ్న చెప్పియిలను చుండగా, సుమహితగా నిర్విశ్వాసాలు.

3) జెంతు సాముడ్చిలులు ప్రాణి పూర్తింధీన వర్గం మొదటాని స్క్రాచుకుల  
పరికు జీవిలని ఉండే విషిటి కొంగల విభిన్న చర్చిలను వరస్వర సమారంభ  
పుష్టియ కుత్తుచ్ఛుత్తులని నిర్విశ్వాసాలు.

4) బంచురూపక్కనే య్యిక్కం ఉన్న జీవులలి గల విభిన్న రూపాలు “జీవుల”  
ఊచులు. ఈ ఊచుం వల్ల నిర్మించుటకు ద్విరూపక్కను ఉమ్మిస్తంధి.

5) సాధారణం ఈ జీవులలిని ముఖ్య జీవులు  
పాలిష్, మొడ్యూలులు. ఈ జీవులా నుండి  
కుత్తుచ్ఛుత్తును నిర్మించుకొపడం వల్ల వివిధ  
జీవుల విభూతి బుంచుంపక్కను  
ఉండిపోస్తాయి.

6) పాలిష్, మొడ్యూలు రెండు ఉపా ఊచులని  
తుఫిత మురాకటి విభూతి జీవిత  
చేరించు ముక్కిత్తి చేస్తాయి.



7) అప్పెదిగిన పుత్రుల్కాలి పాలిం సంచి పెట్టిసా కూడా వీళ్లును ఇది బయట కుటుంబాల్కిల్లా.

8) ప్రాచీచోలా లైఫ్సాగంతి స్వస్థానిప్పారు క్రమాన్ని చెందిన ప్రశ్నల్లో, హోల్పిష్టము, ఛార్ట్స్టులు గా బయట కుటుంబాల్కి స్వస్థానా గమనించవచ్చు.

9) క్రమం పాలిం పెట్టిసా శించ పెరాను వార్షుల క్రమిస్తాలి.

### **మండు చెందిన పాతప రచయి:-**

**1. జార్జు జీవకములు :-** విటిని వాణిజ జీవకములు తాక టోఫిచోయ్లు అందును. ఈ జీవకములు వైష్ణవ శ్రీయును నిర్విషించును. ఇది స్తుపాశామంగ దండి, నొరు, ఇంచ కుటుంబులు కలిగియిందును.

2) పాలిం ఉధారించాలి సంచి సాధారణముగా ఒకో ఒక స్వస్థాకము వీర్భును. ఇది నొరుల ఉధారించాలి సాధారణముతో ఉండవచ్చును. బ్రింగుంచు పుంక్ష్మాములంద్చుట వలన తండ్రి పెక్కులి ఏద్దుటును.

**2. మంగస్ట్టీ జీవకములు :-** ఈ జీవకములను కుటుంబికాలు జీవకములు తాక స్టోలజిషట్టములు మనికూడా అందును. ఈ జీవకములు కుటుంబి జీవకములు. ఇంచుకుటుంబి మండు ఉండుకి నొరు అంగుళీముగుట వలన ఈ జీవకములు వీర్భును.

3) మంగస్ట్టీ జీవకముల కెలకము వాడునుగా అందును. దంక్కుకుటుంబి కూడిన వాడుకైన స్టోలజీ కుటుంబు.

4) విస్ట్రీన డియు దాటుయాండు మంగస్ట్టీ జీవకములను "సిస్ట్రో" అని అందును. "గొనాఫ్స్టులలో" సంబంధము కలిగియున్న మంగస్ట్టీ జీవకములను "సినిప్రాల్పువులు" అని అందును. మంగస్ట్టీ జీవకములు ఇంగ్లిషుము ప్రాచుర్యాని జరిగి. - జీవకములకు అందుజీర్చును.

**3. క్రాఫ్టీ జీవకములు :-** ఇది పుత్రుల్కాల్క్రో ఒరుపు జీవకములు.

1) ఇది ఇంగ్లీష్‌లు ల వెతెగాని, ఇంచ జీవకముల వెతెగాని ఉంటును. ఇది మండు చెందిన పాతప రచయి.

2) ఎంతో తోకల సంచి మెచుసావపె ఉన్న దశబగాడి ముఖ్లు వెదుగుట డ్యూఱ వీర్భును.

3) ఈ జీవకములకు నాయికాలి మంగస్ట్టీములకాని విర్పుదుటు. జరిగి గుహరం క్రిచిలిచి ఉచ్చును.



పుట్ట జీవకము



సూపర్బీ జీవకము



అక్కాన్నదీ జీవకము

### మయ్య చెందిన ముడుసాగ్రహములు

రిష్టోకెలిక్స్ డిఎస్ : - విటినే సెక్టీఫాటిలు తక్క ఈదా గంభీర శంఖలు.

- 1) ఈ ముడుసాగ్రహములు గొంతు ఉండిన కాండములు ఉండి పట్టిస్తరములు కలిగియందును.
- 2) నాయకు కిరువా కుల్చిలు, యల్లు కుల్చిలు కూడా ఉండింది. ఎది నీరు, ఇంజుకము, జ్ఞాన కలములు స్ఫూర్థికము ఉండుటు.
- 3) ఈ జీవకములు కెలిరము కుంఠెలుచుట్టు ఉండి ఉండుకు ఉండుగాపడును.

2) బూక్టీ బెల్మా ప్లైట్ ఫిల్మ్ డిఎస్ : - విటి కెలిరము ఉండుకింగ్ విట్టిది

- మందిష్టన జ్ఞానపాఠ్యములో ఉండుతు. కానీ పొత్తుకి ఉండంలో ఉండును.
- 2) ఈ జీవకములు పెడుసా ప్రక మంచి విష్టోద్ధిష్టవ్యాప్తికి ముడుసా దోషు పెరిపి ఉండుటు.
  - 3) ఈ జీవకములుకి ఒక్కరమణిము సరళముగా నాని శాఖాయిష్టు నాని ఉండుటు.
  - 4) సాధారణంగ ఇలి ఉండి జీవకములను కప్పుచు రక్షించు కలగజేయును.

3) మ్యామోఫోరియులు : - సంఘర్షితము నింపి వెలియుండుటకు ఉండుటాగా ఉండుటు.

- 2) ఇలి సంఘర్షితము ఉండి, గాలిలో నిండి ఉండుటు. విటి కెలిరము లెల్ఫిందుగా ఉండు ముడుసా వెలి ఉండుటు. నీరు, స్ఫూర్థికములు ఉండుటు. జ్ఞానప్రాంతాలలో ఉండుటు. గ్రంథు పాశుల మంచిమై ఉండుటు.
- 3) ఉండిథియు తిలాసి మ్యామోఫోరియున అని, ఉండిచుట్టు తెలు కుల్చియి అన్నిమాటు.
- సాకణ తక్క వాయిదాల్సి శంఖలు.

- 4) సాధారణంగ యాచులికి బాహ్యాంశము స్వల్పించబడిన ప్రయోజనములు.
- 5) చెంది ఉన్న యాచులికి డిఫ్యూషన్ లును కెంటుంచు నీటినాము విశ్లేషిస్తున్నారు. ఈ నీటినాము యొక్క బాహ్యాంశము గాను (ఎందిగా వుండియున్నారు).
- 6) వ్యాయామిశ్రితి చెందును, సైంపాన్ ను, అభ్యాస పుండులు అయిను ఉండున్నారు.

#### 4) నీటిప్రశ్నలు:-

- 1) ఇది ఖాటిగా గారి, పాశుండుయులగా గారి ఉన్న బ్లాస్టిక్ ప్రశ్నలు బింబించుట.
- 2) వీటి యందు ఉప్పిస్తామను, కిర్మ కులవీలు దొరాయికము మొదలుచుచ్చి ఉండున్నారు.
- 3) దొరాయికము కు బ్లాస్టిక్ ములు ఒమ్మి ఉండున్నారు.
- 4) నించి వేళలు ఉధారించు ఉన్న బ్లాస్టిక్ ప్రశ్నలు బ్లాస్టిక్ ప్రశ్నలు ఉన్నాయి.
- 5) గ్రేనాయిప్రశ్నలు మొదిసించబడు, లుమాగ్నాని పోరులు తెచ్చులపెటు విశ్లేషిస్తున్నారు.
- 6) మ్యాట్రిచోఫాల్స్ లోఫ్ట్ జప్పులను నీటిప్రశ్నలు, వుండి రింగ్స్ ప్రశ్నలు ఉన్నాయి.

#### చింపురూపకాల వీర్యదిన కిఫాయతులు:-

చింపురూపకాలి వీఠించి జీవకములు వివిధ కేయిలను నిర్వచించుట చేసి వీసియందు ఉమ్ముక్కు విభజించున్న స్థాయికాలు అనుభూతిలదు. చింపురూపకాల అమ్ములు నీట్లుంతుండున్న వీఠించున్న ముప్పుల నీట్లుంతుండున్న వీఠించున్న ముప్పులు కులవీ.

#### 5) బింబించిన ప్రశ్నలు:-

- 1) బింబించిన ప్రశ్నలు ఒక చింపురూపాన్ని ఒకే ఒక వెంటుకు రూపుంచున్నారు. అభిప్రాయ ప్రత్యాము. మొదిసి రూపుంచుక నీట్లుకాలు. చెంది చింపుల తట్టు చెంది వాటి ఉంటుయికి స్థాయాల సురించి వలన వాటి వివిధ కణాలను వీర్యరచు కుంటాయి. దీనిని చింపు ఒక నీట్లుంతుండున్న అంటాము.
- 2) స్థాయిపొరు చెందిన జీవనాల ఈ విభింగాని బింబింపాడను పాండ్జులు. ఈ కాంగుల వలన స్థాయిపొర జప్పుల తమ వివిధ జప్పులల రూపులను వివిధ ఖాగాల సుంచి వీర్యాంశులు జంతులును ఒక ఒక మొదుకుమ వాలి ఉంటాయి.

೩) ಮಾತ್ರನೂ ಈ ಸಿಕ್ಕಣಣನ್ನು ಎಳ್ಳಬಹುದುಪಡಿಸಿ ಹಿಂತಿರುವುದಿಲ್ಲ, ಅದ್ದಿ ಅಧಿಕೃತ ಉದ್ದೇಶ ಏಳಿ ಇತ್ತು ಅದನ್ನು ಕಾಣಬಹುದು.

4) වැඩිල්, මුද්‍රාව් රැකිය සහ සිටිල පෙනු ලැබුණු නොවූ නුත් විද්‍යාත්මක ආකෘති.

2) బయలుజీవ సిద్ధోంతము: - ఈ సిద్ధోంతమును వాగ్దు, యాకార్య,

ಕರ್ನಾಟಕ ಮುದ್ಲಿನ ಹಂತ ಹೆಚ್ಚಿಗೆಯಿಂತಿನಾಗ್ಯಾ. ಇದು ಗಮನಿಸುವುದು ಸರ್ಕಾರಿ ವಾರ್ತೆಯಲ್ಲಿ  
ಹಿನ್ನೆತ್ತಿರುತ್ತದೆ. ಕಾಡಿ ಈ ಹೆಚ್ಚಿಲಾಸಿಯಿಂದ ಒಂದು ಪ್ರಾರ್ಥಿ ನುಡಿ ಕುಪ್ಪಿನಿಂದ  
ಹುಂಡುತ್ತದೆ.

⇒ ఈ జీవులలో కాలయమయ్యే కాన్సెట్ భాగమయ్యే కాల్పోఫ్టోట్ గాలి, భైంబించుట గాలి సంఘర్షించబడ్డాయి. ఇది సైంస్క్రిక్ రం ఉటుటుకొ నితసిరచి గుహ్యతివ్యక్తాలు. వీటి లంత్యింత ఖచ్చిత్వార్థి చెందిన పూర్తిప్రయాణాలు.

3) ఈ పాత్రాల బొస ఎడిగిన తర్వాత మెచును లను ఉప్పుల్లో సమాధ్యీకించాలి.

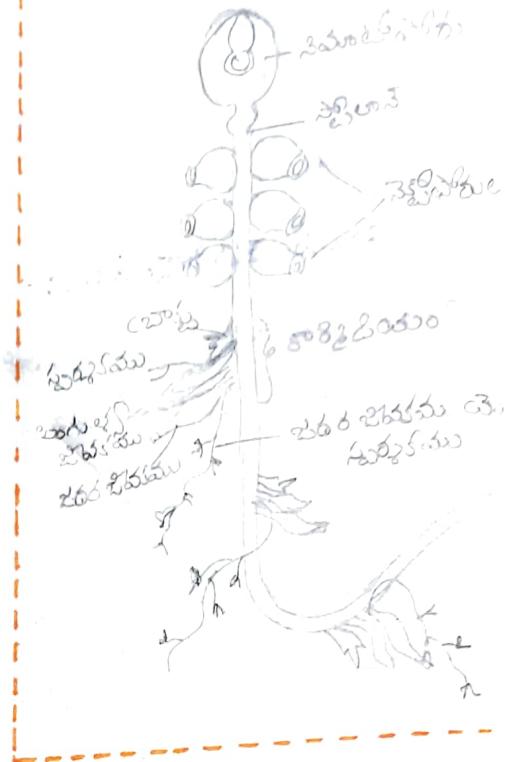
3) வெட்டுச் சூப்பு விழுதுகளும் : - ஏ ஸிரீங்கல்வுக்கு ஹெக்கர், ஸ்ட்ரீக்கர்

భారత శాస్త్రవైద్యులు పుట్టిపోవినిరి. ఇని హరికు నష్టిపడేము డెవిచ  
ప్రాథమిక జీవకు మాటలునన విశ్రద్ధిసు. తాని సుంధిత్వాని పెగ్గులు  
వెయ్యాలు పుట్టి గొట్ట మాటలు విశ్రద్ధిసు. ఈ మాటలునాలు గొట్ట జీవములు  
మార్కుము. అంటుచీయ జీవములు మాటలునా డుంచ హయవములు  
మార్కు చెందుట పుట్ట విశ్రద్ధిసు.

**భార్యలు కృతి అన్ని డైహింగ్లు:-**

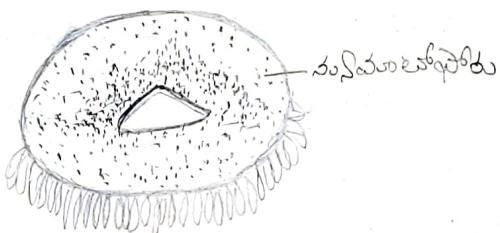
A) పోలిస్పుమారై :- నివె కెళ్లములి పాటత్తుని కాదుమణి భాషమును జీవీకములు ఇంటుకాని లాటిప్లై తీఱిచుండ్రును. ఉండ్రాయింపములి నాలితే నింధించి వెంటని అనుజీవీకవు. కులాలు. దొకి పెగువాల సంచారములని పున్నా రెక్ష్యూక్రొపిస్సె జీవీకములు అసోకములంట్టును. పట్టణ త్రాసు గుటులందురు. ఈ జీవీకములు నీటిని లాప్లిట్రిం గ్రహించి పొంచక బయటకు ఎంచుకు ఎంచుచుటును ఇంచు చెయ్యట పెలట జీవీ చీలించును.

ನೈಕ್‌ಬ್ರಹ್ಮಿತಿಸನ್ ದಿನಾಂಕ ಕಾಲ್ಯಾಂ



### B) పెద్దింగ్ (Post Pita) :

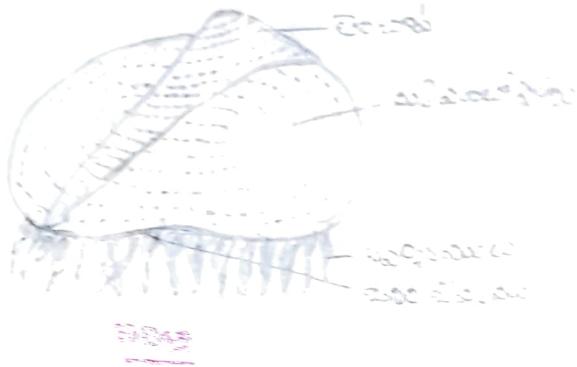
స్తు. కుండులుగా ఉండి నాతితి నిండియున్న మనిషాట్ ఫోర్ముల కలిగి  
ఉండేను. శైలిరమ్మ నుండి వెళుఁచు, ఒక బు లేటి జెప్పుము, అపో ఉప్పుట్టు  
జుండేను. శైలిరమ్మ నుండి వెళుఁచు, ఒక బు లేటి జెప్పుము, అపో ఉప్పుట్టు  
జుండేను.



ప్రాణి

ప్రపంచము:- ఈ జీవి ఒక పొద్దుపు వూడికిగా ఉండును- దీని ఇంధిల్లం వట్ట విశులయిగి బెంచువు వపెయున్న నిరూపముండును. చుట్టుమువలె ఉన్న, నాల్గిల నింధిన, స్నానిమాట ఫాక్ట్ త్తొడూ కలదు. దీనియోక్క రంధ్రము ఉన్న ఉండును, గ్రంథి త్తెలు కెరకుము మధ్యనిల్లి పట్టి జీర్ణించిముసు ఉండును. బ్రాహ్మి యందు నీరు ఉండులుముగా విశ్లేషిసు- పురుర వీకుకము ముఖ్యము బ్యాస్ట్రియు. ఉండుచ్చు జీవుములుగా విశ్రుండును.

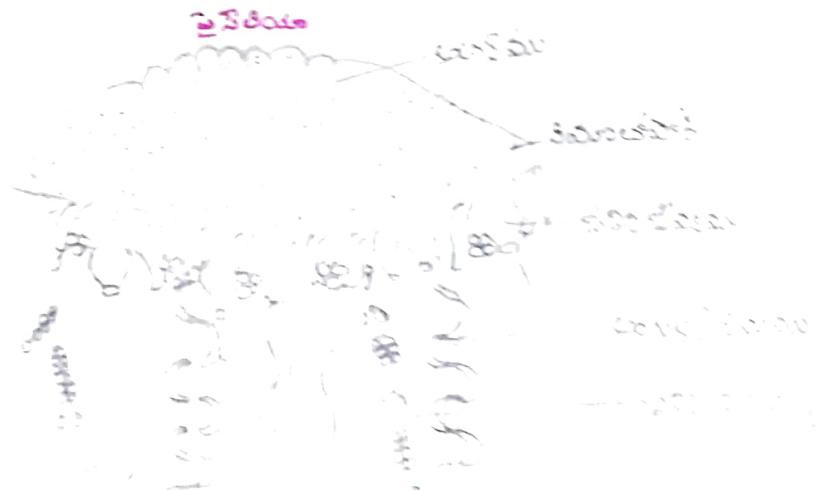
ప్రతి యాంచ మానుషుల వ్యక్తి క్రొర్కెలులను తెలుగు మాసిక్కి ఉపాయాలు అడువు విప్పి ఉత్స దంచ గొప్పాలాడు. నృత్యాలు భాగం, ఉపాయాలు భాగం, మాడుపు యాంచ మానుషుల ముఖుల వీధిలో శ్రద్ధలు పూర్వు అంటారు.



8) පුස්තරයෙහි : - පුස්තර සේවක හැඳුනුගැනීම වාර්තා අංශයෙහි නොමැත.

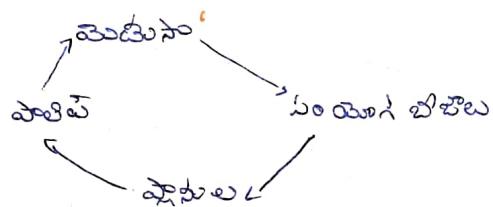
ప్రశ్నల నిర్విష్టముగా ఈ చూసి లిపి రంగులో ఉండుని. నొక్కియోక్కములు  
అందుల్లో విభిన్నముగా ఉన్న ప్రశ్నల ప్రశ్నల అను విశ్లేషణలు. అన్ని ముఖ్యములు  
ప్రశ్నల ప్రశ్నల ప్రశ్నల అను విశ్లేషణలు. అన్ని ముఖ్యములు  
ప్రశ్నల ప్రశ్నల ప్రశ్నల అను విశ్లేషణలు. అన్ని ముఖ్యములు

అప్ప చీమిముల మాత్రా వాళ్ళాలున్నారు అయి వైపుల్లా నీళ్ళని, పూడివైన వ్యుతికముల కల్గించుకొను. ఎండుర్ చీమికముల గాధిపుల్లా లప్పించుండులు. ఇది తనక శాఖలు ఏస్తి ఉండును.



**శిష్టాచారములకు వ్యవహారించాలు!** - ఎంతామాటకి సంస్కరితి జీవి. చరిత్రలో సంఘాదించి ఉంటుంది. వికాంత తరం బహురూపము ఎన్ని జాతులకి విశ్వమస్తకయి. ఒక తింగా చూస్తే శిష్టాచారముల్లో నుంచి వికాంతప్రతి తొఱు ముఖులుని ఉన్నాడని అభ్యర్థి.

- 2) ఈ వికాంత తరం నుంచి బహురూపముల విశ్వాదపాటు అసి కూడి వాడును ఏవి ఎలా పరిపు సంఘంబోము కూతియాడు. నిడ్డియులని ఒకిధార్థాన జీవితమే చుండుతాయి. విషి వలన క్లిష్టమైన విషిట్టులు విశ్వాదాలు.
- 3) పూర్వా మాటలి వికాంత జీవులలో పూర్విపే నుంచి గుండెతార్థుల్లి పంచ్మీయులు తయారయ్యాయి. ఈ ద్వితీయము కూడి మార్గాలు; పూర్వి జీవులలో పూర్విపే నుంచి అప్రాంగికంగా ముఖులూ విశ్వాదాలు.
- 4) పూర్విము విషిచిన చైత్రీ, పుస్తక చీజుల సంయోగాల వలన పూనాదిల దీంచిం విషిపి ఎకిగిన త్రణ్యిత పూర్విగౌ మార్గాలుండి.
- 5) అమాయిల జీవులలో జీవి జీవాల నుండి పంతుపే విశ్వాదాలు. పూర్వి మాసాలలో ఉన్న ఉచ్చార ఉచ్చారము జీవకుల నుంచి ముఖున్నిసు విశ్వాదాలు.



- వికాంత తొలు మనవి సితంబరాంగ జీవులలో తప్పిన వ్యాస క్రిహిస్తాయి. ద్వితీయి జీవి జీవిత చుండుతాయి మాత్రందీఁ పూర్వి తరం, సైంగిక ముఖున్ని తొలు వికాంత తరంగా జరుస్తాయి. జీవిని "ముఖున్నిసు" మాటారు.

**M.A.L.D.GOVT.DEGREE COLLEGE,GADWAL  
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Affiliated to Palamuru University, Mahabubnagar

**DEPARTMENT OF ZOOLOGY**



**STUDENT STUDY PROJECT  
ON  
COLLECTING OF ENDANGERED SPECIES  
AY:2017-18  
II YEAR B.Sc BZC**

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# Collecting of Endangered Species



Bengal Tiger

## Scientific classification

Kingdom	: Animalia
Phylum	: chordata
class	: Mammalia
Order	: Carnivora
Family	: felidae
Genus	: Panthera
Species	: <i>P. tigris</i>
Subspecies	: <i>P. t. tigris</i>

Binomial name: *Panthera tigris tigris*.

①

locality for the binomen *Panthera tigris*, to which the British taxonomist "Reginald Innes Pocock" subordinated the Bengal tiger in 1929 under the binomen *Panthera tigris tigris*. The Bengal, Caspian and Siberian tigers and Lion rank among the 'Biggest cats'.

"It is the national animal of both India & Bangladesh."

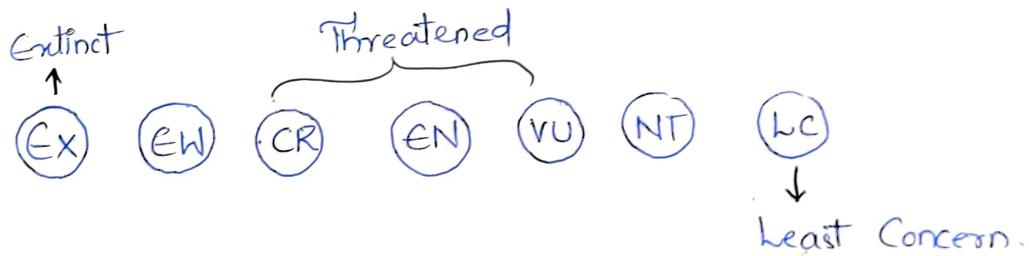


A Bengal tigress in the Ranthambore

Tiger Reserve.

## Bengal Tiger.

Conservation status:



Endangered (IUCN 3.1)<sup>[1]</sup>



## Brown Bear

Classification	: Animalia
Kingdom	: Chordata
Phylum	: Mammalia
Class	: Carnivora
Order	: Arctoidea
Suborder	: Caniformia
Infraorder	: Ursidae
Family	: Ursidae G. Fischer de Waldheim 1817

Subfamilies	* Amphicyodontinae
	* Hemicyoninae
	* Ursavinae
	* Agriotheridiinae

## Bear :-

Bears are carnivoran mammals of Ursidae. Bears are classified as caniforms, or doglike carnivorans. Although only eight species of bears are extant, they are widespread, appearing in a wide variety of habitats throughout the Northern Hemisphere and partially in the Southern Hemisphere. Bears are found on the continents of North America, South America, Europe, and Asia.

## Characteristics :-

Common characteristics of modern bears include large bodies with stocky legs, long snouts, small round ears, shaggy hair, plantigrade paws with five nonretractile claws, and short tails.

While the polar bear is mostly carnivorous, and the giant panda feeds almost entirely on bamboo, the remaining six species are omnivorous with varied diets with the exception of courting individuals and mothers with their young, bears are typically solitary animals. They may be diurnal or nocturnal and have an excellent sense of smell.

Despite their heavy build and known awkward gait, they are adept runners, climbers, and swimmers.

and swimmers. Bears use shelters, such as caves and dens, as their dens; most species occupy their dens during the winter for a long period of hibernation up to 100 days.



Brown bear

Bears have been hunted since prehistoric times for their meat and fur; they have been used for bear-baiting and other forms of entertainment, such as being made to dance. With their powerful physical presence they play a prominent role in the arts, mythology, and other cultural aspects of various human societies. In modern times bears have come under pressure through encroachment on their habitats and illegal trade in bear parts, including the Asian bile bear market. The IUCN lists six bear species as vulnerable or endangered and even least concern species, such as the brown bear and at risk of extirpation in certain countries.

## Etymology:-

The English word bear comes from old English *beor* and belongs to a family of names for the bear in Germanic Languages, such as Swedish *björn*, also used as a first name, that originate from an adjective meaning "brown"

Bear taxon names such as *Ursidae* and *Ursus* come from Latin *Ursus*. Bear taxon names such as *Astroidea* and *Ursa* come from the ancient Greek word *arktos* (άρκτος), meaning bear, as do the names "arctic" and "antarctic" from the constellation *Ursa Major*, the Great Bear prominent in the northern sky.

Bear taxon names such as *Ursidae* and *Ursus* come from Latin *Ursus* / *Ursa*, he-bear / she-bear. The female first name *Ursula* originally derived from a Christian Saint's name, means "little she bear". In Switzerland the male first name "Urs" is especially popular. The Germanic name *Bernard* means "bear-brave" bear-bravely" or "bold bear". The old English name *Beowulf* is a kenning "bee-wolf", for bear, in turn meaning a brave warrior.

## Evolution and phylogeny:-

The family *Ursidae* is one of nine families in the suborder caniformia, or dog-like carnivores, with the order Carnivora. Bears' closest living relatives are the pinnipeds canids and musteloids. Nuclear chromosome analysis show that the karyotype of the six living bears is nearly identical, with each having 74 chromosomes, whereas the giant panda has 42 chromosomes and the spectacled bear

# =: Snow leopard :=



Snow leopard

## =: classification :=

kingdom	: Animalia
phylum	: chordata
class	: mammalia
order	: carnivora
Family	: Felidae
Genus	: panthera
species	: p. uncia

Binomial name:  
Panthera uncia



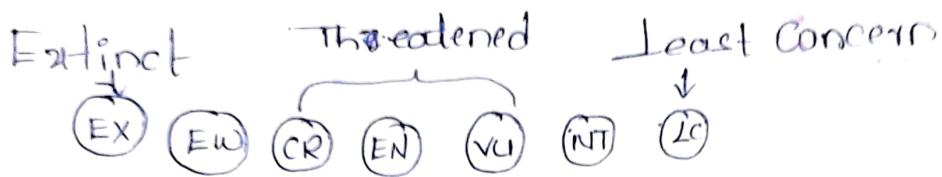
◦ Giant - Panda ◦

# Giant panda

## Giant panda classification

Giant panda at the Ocean Park Hong Kong

### Conservation status



vulnerable (IUCN)

### Scientific classification

<u>Kingdom</u>	: Animalia
<u>Phylum</u>	: chordata
<u>Class</u>	: Mammalia
<u>Order</u>	: Carnivora
<u>Suborder</u>	: Caniformia
<u>Family</u>	: Ursidae
<u>Subfamily</u>	: Ailuropodinae
<u>Species</u>	: <u>A. Melanoleuca</u>
<u>Genus</u>	: Ailuropoda

\* Binomial name

\* Ailuropoda melanoleuca David 1869.

Sub-species

development, the giant panda has been driven out of the lowland areas where it once lived. The giant panda is a conservation-reliant vulnerable species. A 2007 report showed 239 pandas living in captivity inside

China and another 24 outside the country.

As of December 2014, 149 giant pandas lived in captivity outside China, living in 182 zoos in 13 different countries.

Wild population estimates vary. One estimate shows that there are about 1,590 individuals living in the wild, while a 2006 study via DNA analysis estimated that this figure could be as high as 2,000 to 3,000. Some reports also show that the number of giant pandas in the

wild is on the rise. In March 2015, Mongabay stated that the wild giant panda population had increased by 268, or 16.8%, to 1,864 individuals.

In 2016, the IUCN reclassified the species from endangered to vulnerable.

While the dragon has often served as China's national symbol internationally, the giant panda appears at least as commonly,

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**DEPARTMENT OF ZOOLOGY**



**STUDENT STUDY PROJECT  
ON  
COLLECTION OF VARIOUS REGIONS OF DEERS  
AY:2017-18**

**II YEAR B.Sc MZC**

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4	K.NAVITHA	16033024457011
5	MD.ASQAQ	16033024457015

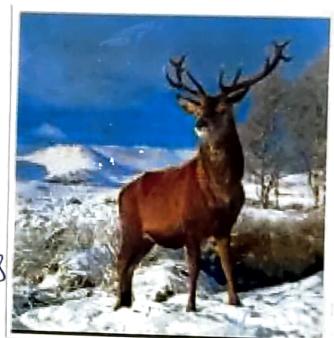
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## Location:-

The hangul adds a touch of extraordinary beauty to the already enchanting Kashmir valley. It is state animal of Jammu and Kashmir. It's found in Dachigam National park at elevations of 3,05 meters and also in Himachal pradesh in northern chamba. Threatened by habitat destruction this red deer's population has thankfully increased in the past few years.

The Kashmir stag (*Cervus canadensis hanglu*) also called hanglu, is a sub-species of elk native to India.



Habit and Habitat:- They prefers to live in dense riverside forests between 1700 and 3600 metres of high valleys, and also in the Mountain areas.

They spent winters in the lower levels, and summer on the heights. They found in dense riverside forests, high valleys, and mountains of the kashmir valley and northern chamba in Himachal pradesh.

## BLACK BUCK;

The blackbuck, also known as the Indian antelope, is an antelope found in Pakistan, India and Nepal. The blackbuck is the sole extant member of the genus Antelope. The species was described and given its binomial name by Swedish zoologist Carl Linnaeus in 1758. Two sp subspecies are recognized. It stands up to 74 to 84 cm high at the shoulder. Males weigh 20-57 kilograms (44-126 lb), an average of while the upper parts and outside of the legs are dark brown to black, the underparts and outside of the legs are dark brown to black, the underparts and the insides of the legs are all white. On the other hand females and juveniles are yellowish fawn to tan.

The black buck inhabits grassy plains and slightly forested areas. Due to their regular need of water, they prefer areas where water is perennially available.

The antelope is native to and found mainly in India, while it is extinct in Bangladesh, formerly widespread, only small, scattered herds are seen today, largely confined to protected

areas. During the 20th century, blackbuck numbers declined sharply due to excessive hunting. The blackbuck has significance in Hinduism; Indian and Nepali villages do not harm the antelope.

### Etymology:

The scientific name of the blackbuck is *Antilope cervicapra*. Its generic name stems from the Latin word *antilope*. The specific name *cervicapra* is composed of the Latin words *cervus* and *capra*. The vernacular name "blackbuck" is a reference to the dark brown to black colour of the dorsal part of the coat of the male, the earliest recorded use of this name dates back to 1850. Alternative names for the blackbuck are "Indian-antelope."

### Taxonomy and evolution:

The blackbuck is the sole member of the genus *Antilope* and is classified under the family Bovidae. The species was described and given its binomial name by Swedish zoologist Carl Linnaeus in the 10th edition of *Systema Naturae* in 1758. *Antilope* also includes fossil species, such as *A. subfasciata*, *A. planicornis*, and *A. intermedius*.<sup>[13]</sup>

## Nilgiri tahr;

The Nilgiri tahr, known locally as the nilgiri ibex or simply ibex, it is an ungulate that is endemic to the Nilgiri Hills and the southern portion of the western Ghats in the states of Tamil Nadu and Kerala in southern India. It is the state animal of Tamil Nadu. Despite its local name, it is more closely related to the sheep of the Ovis genus than the ibex and wild goats of the Capra genus.

## Etymology;

In the Tamil language it is called varaiadu, the term being composed of two Tamil words, varai a precipice, and aade, a goat. In Malayalam it is pronounced as "varaiyaade" ancient word is classical Tamil was "varudai" Natornai, 359; Ainkurunuru 287; pattinappalai, it was previously named capra-wassago by John Edward Gray.

## Taxonomy

Its closest relatives are sheep. Until 2005, it was placed with the Himalayan tahr and the Arabian tahr in the genus Hemitragus.

## Description:

The Nilgiri tahr is a stocky goat with short, coarse fur and a bushy mane. Males are larger than females and of darker colour when mature. Both sexes have curved horns, reaching up to 40 cms for males and 30cms for females. Adult males weigh 80 to 100 kgs. Adult males develop a light grey area on their backs and are thus called "saddle backs".

## Habitat and distribution

The Nilgiri tahr inhabits the open montane grassland habitat of the south western Ghats - montane rain forests ecoregion. At elevations from 1,200 to 2,600 metres, the forests open into grasslands. The Nilgiri tahr formerly ranged over these grasslands in large herds, before but hunting and poaching in the nineteenth century reduced their population.

## Conservation,

As few as 100 Nilgiri tahrs were left in the wild by the early 20th century. Since that time their numbers have increased somewhat; in a study of the Nilgiri tahr population in Western Ghats, association with volunteers from college of forestry & veterinary science under Kerala Agricultural University.

## Kashmir stag

The Kashmir stag, also called hangul, is a subspecies of elk native to India, it is found in dense evergreen forests in the high valleys and mountains of the Kashmir valley and northern Chamba district in Himachal Pradesh. In Kashmir, it's found in the Dachigam National Park and mitochondrial DNA genetic studies have revealed that the hangul is part of the Asian clade of the elk and has not been evaluated by the IUCN.

### D Description:

This deer has a light rump patch without including the tail. Its coat colour is brown with a speckling to the hairs. The inner sides of the buttocks are greyish white, while the brow and bez tines are usually close together and above the bust.

### D Distribution and Ecology:

This deer lives in groups of two to 18 individuals, in dense evergreen forests, high valleys, and mountains of the Kashmir valley and northern Chamba in Himachal Pradesh. In Kashmir, it's found in the Dachigam National Park, and in the forests of Kishtwar & Bhaderwah.

## Threats and conservation

These deer once numbered from about 5,000 animals in the beginning of the 20th century. Unfortunately, they were threatened, due to habitat destruction, over-grazing by domestic livestock, and poaching. During the 1940s their number was believed to be about 3,000-5,000. As per the latest census in 2008, only around 160 exist.

## References:

1. Boook, S.M., Plihalikar, J., Lorenzini, R., Lovari, S. masses, IUCN Red List of Threatened Species, IUCN.
2. Randi, Ettore; Mucci, Nadia; Dasso-Hergueta, P-fancise Bonnet. Speciation in cervus and implications for conservation.
3. Pitca, Christian, Fickel, Jeroen, "Evolution & phylogeny of Old world deer".
4. Captive breeding for Hangul.

## External links:

- \* Rare kashmiri deer on verge of extinction. 12 May 2008, REUTERS, The Economic Times, Times of India,
- \* Endangered Hangul spotted in many parts of Kashmir. 5 May 2008, PTI, Times of India.
- \* Wild life institute wants larger area for Hangul deer. April 09, 2008, Aditya V Singh, The Indian Express

## Nilgiri tahr



### Scientific classification.

Kingdom ; Animalia.  
Phylum ; chordata  
Class ; Mammalia  
Order ; Artiodactyla  
Family ; Bovidae  
Sub- family ; Caprinae  
Genus ; *Nilgiritragus*  
Ropiquet & Hassanin, 2005.  
Species ; *N. hylocoius*  
Binomial name  
*Nilgiritragus hylocoius*.

# Kashmir Stag.



## Scientific classification

Kingdom : Animalia  
Phylum : Chordata  
Class : Mammalia  
Order : Artiodactyla  
Family : Cervidae  
Subfamily : Cervinae  
Genus : Cervus  
Species : C. Canadensis  
Subspecies : C. c. hanglu

Trinomial name

Cervus canadensis hanglu

## Black buck



## Scientific classification

Kingdom ; Animalia  
Phylum ; chordata  
Class ; Mammalia  
Order ; Artiodactyla  
Family ; Bovidae  
Sub Family ; Antilopinae  
Genus ; Antelope  
Species ; *A. cervicapra* Pallas, 1766

### Binomial name

*Antelope cervicapra*  
(Linnaeus, 1758)

### Sub species

*A. c. cervicapra* (Linnaeus, 1758).

*A. c. ra'jputanae* Zukowsky. 1927

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**DEPARTMENT OF ZOOLOGY**



**STUDENT STUDY PROJECT  
ON  
INFORMATION ABOUT COMMON MAMMALS  
AY:2018-19**

**II YEAR B.Sc MZC**

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The white lion is a rare color mutation of the Timbavati area. White lions are the same as the tawny African lion found in some wildlife reserves in South Africa and in zoos around the world. White lions are not a separate subspecies and are thought to be indigenous to the Timbavati region of South Africa for centuries, although the earliest recorded sighting in this region was in 1938. Regarded as divine by locals, white lions first came to public attention in the 1970s in Chris Mc Bride's book *The white lions of Timbavati*. Up until 2009, when the first pride of white lions was reintroduced to the wild, it was widely believed that the white lion could not survive in the wild. It is for this reason that a large part of the population of white lions now reside in zoos.

White lions of Mazanje are not albinos. Their white color is caused by a recessive trait derived from a less-severe mutation in the same gene that causes albinism, distinct from the gene responsible for white tigers. They vary from blonde to near white. This coloration does not appear to disadvantage their survival. The white lions of the Global White Lion Protection Trust [GWLPT] have been reintroduced into their natural habitat and have been hunting and breeding successfully without human intervention for a significant amount of time.



White lion

### Classification

kingdom : Animalia  
Phylum : chordata  
class : Mammalia  
order : carnivora  
Family : Felidae  
Genus : Panthera  
Species : *Panthera leo*

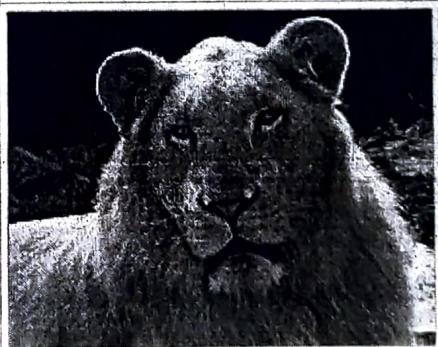
Binomial name: *Panthera leo*

## Kruger and umfolozi white lions

In 1979, three litters containing white lions were recorded in Kruger National Park. In March, a female lion with three white cubs was observed near Tshokwane. In September, three white cubs were seen. Another litter of white female cubs was captured from Kruger National Park and treated for sarcoptic mange. A white lion was observed in the Hluhluwe-Umfolozi Game Reserve in Zululand.

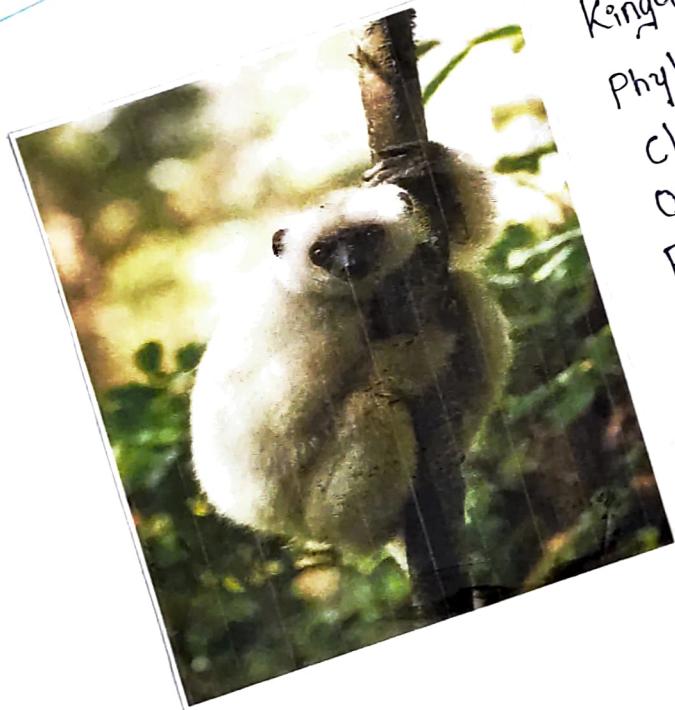


Adolescent white lion in Kruger National Park, South Africa



White Lioness - Bratislava Zoo, Slovakia

Golden Crowned Sifaka  
(*Propithecus Tattersalli*)



Classification:

Kingdom: Animalia  
Phylum: Chordata  
Class: Mammalia  
Order: Primates  
Family: Indriidae  
Genus: *Propithecus*

## Golden Crowned Sifaka (*Propithecus tattersalli*)

Spanish: Indris sifaca

Size: Head-body length: 87 - 94 cm

Tail length: 42 - 47 cm

Weight: 3.5 kg

Habitat: Inhabits dry deciduous or semi-evergreen remnant forest patches, all known populations are found below 700 meters above sea level.

- \* The Golden crowned sifaka is the smallest of the sifakas.
- \* And was first described in 1998.
- \* The coat is creamy white and the common name is derived from the bright Golden orange crown; The shoulders, upper arms, chest and rump may also be tinged with this colour.
- \* The hairless, black face is drawn into a pronounced muzzle and the eyes are a bright.
- \* Sifakas such as the Golden crowned sifaka are adapted for upright leaping from tree to tree. Their legs are powerful and considerably longer than the arms.
- \* Also known as - Tattersalls sifaka.

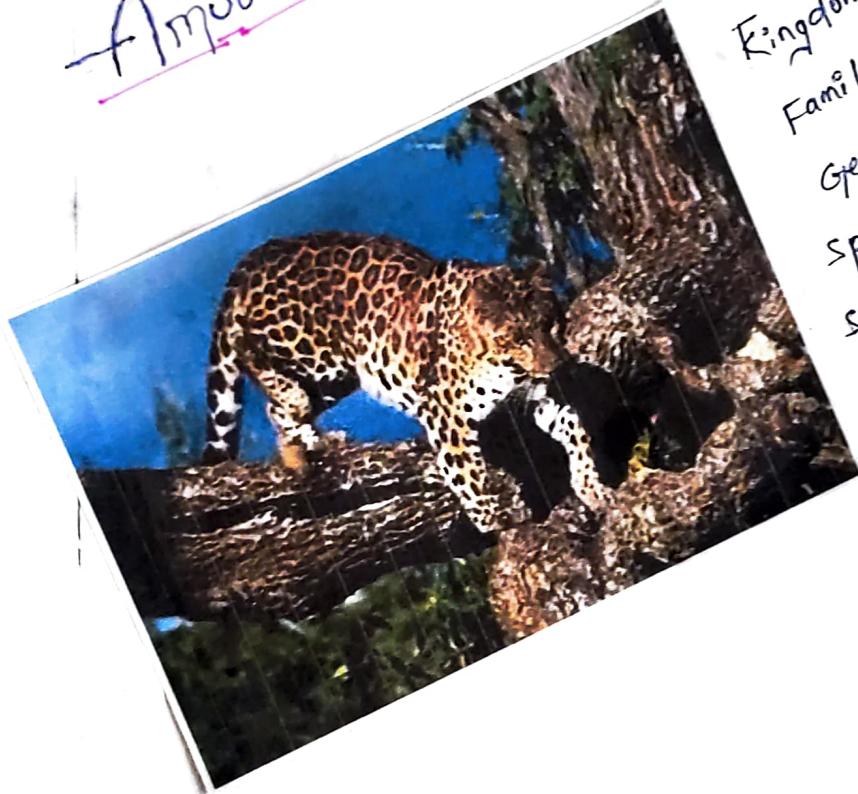
### Biology

- \* They were live in groups of five to six individuals.

②  
duals, usually with two @ more adults from each sex although typically only one female will breed each year.

- \* Matting occurs towards the end of January and females give birth to one offspring a year, in late June, which is then carried by its mother through the trees.
- \* Female are dominant within the group, and social bonds are enhanced through Grooming, which is carried out using the lower teeth as a comb.
- \* Golden-crowned sifakas feed on a variety of un-ripe fruit, seeds, shoots and leaves bark may also be eaten, particularly in the dry season.
- \* It is the one of the most limited distributions.

Ampas Leopard



Classification

Kingdom: Animalia

Family: Felidae

Genus: Panthera

Species: Panthera pardus

Sub-species: P.P. orientalis

## ~~Amur leopard~~

Status: Critically endangered

Population: More than 60 individuals

Scientific Name: *Panthera pardus orientalis*

Weight: 70 - 105 pounds

Habitats: Temperate, Broadleaf and mixed forests

\* people usually think of leopards in the savannas of Africa but in the Russia far east, a rare subspecies has adapted to life in the temperate forests that make up the northern-most part of the species range.

\* Similar to other leopards, the Amur leopard can run at speeds of up to 37 miles per hour. This incredible animal has been reported to leap more than 19 feet horizontally and up to 10 feet vertically.

\* It is a solitary, nimble footed and strong. It carries and hides unfinished kills so that they aren't taken by other predators. It has been reported that some males stay with their young. After mating, and may even help with rearing the young.

\* Several males sometimes follow and fight over a female. They live for 10-15 years, and in captivity up to 20 years. The Amur leopard is also known as the far east leopard. The manchurian leopard  
④ Korean leopard.

### Illegal wild life Trade:

\* The Amur leopard is poached largely for its beautiful, spotted fur. In 1999, an undercover investigation team recovered a female and a male Amur leopard skin, which were being sold for \$500 and \$1000 respectively in the village of Barabash not far from the Kedrovaya pad reserve in Russia.

\* The Amur - Heilong covers areas of northeast red China and Russian far east. The region contains one of the most biologically diverse temperate forests in the world, vast steppe grass lands, and the unbroken taiga home.

"Amur leopards are teetering on the brink of extinction, with the establishment of the land of the leopard national park, in conjunction with other conservation efforts, we can now start to focus on how to begin bringing them back."



## Crocodile

Scientific classification	
Kingdom	: Animalia
Phylum	: Chordata
Class	: Reptilia
Order	: Crocodilia
Family	: Crocodylinae
Subfamily	: Crocodylinae
	cuvier, 1807

## Crocodile

Crocodiles (subfamily Crocodylinae) or true crocodiles are large aquatic reptiles that live throughout tropics in Africa, Asia, the Americas and Australia. Crocodylinae, all of whose members are considered true crocodiles, is classified as a biological subfamily. A broader sense of the term crocodile, Crocodyliae that includes Tomistoma, is not used in this article. The term crocodile here applies only to the species within the subfamily of Crocodylinae. The term is sometimes used even more loosely to include all extant members of the order Crocodylia, which includes Tomistoma, the alligators and caimans, the gharials (family Gavialidae), and all other living and fossil crocodylomorphs.

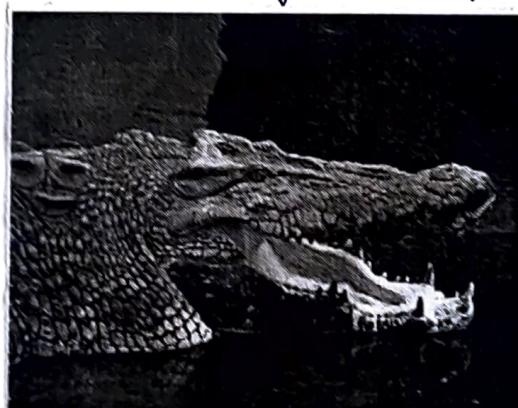


Nile crocodile (*Crocodylus niloticus*)

### Characteristics:

Although they appear to be similar to the untrained eye, crocodiles, alligators and the gharial belong to separate biological families. The gharial having a narrow snout is easier to distinguish, while morphological differences are more difficult to spot in crocodiles and alligators.

The most obvious external differences are visible in the head with crocodiles having narrower and longer heads with a more "V-shaped" than a U-shaped" snout compared to alligators and caimans. Another obvious trait is that the upper and lower jaws of the fall along the edge the along the crocodiles are the same width, and the teeth in the lower jaws fall along the edge or outside the upper jaw when the mouth is closed. therefore, all are visible unlike an alligator, which possesses small depressions in the upper jaw into which the lower teeth fit. Also when the crocodile's mouth is closed, the large fourth tooth in the lower jaw fits into a constriction in the upper jaw. For hard-to-distinguish specimens, the protauding tooth is the most reliable feature to define the family that the species belongs to. Crocodiles have more webbing on the toes of the hind feet and can better tolerate saltwater due to specialized salt glands for filtering out salt, which are present but non-functioning in alligators.



### Habits:

Saltwater crocodile (*Crocodylus porosus*)

Crocodile size, morphology, behaviour and ecology somewhat differs between species. However, they have many

Similarities in these areas as well. All crocodiles are semi-aquatic and tend to congregate in freshwater habitats such as rivers, lakes, wetlands and sometimes in brackish water and saltwater. They are carnivorous animals feeding mostly on vertebrates such as fish, reptiles, birds, and mammals, and sometimes on invertebrates such as molluscs and crustaceans depending on species and age. All crocodiles are tropical species that, unlike alligators are very sensitive to cold. They separated from other crocodilians during the Eocene epoch, about 55 million years ago.

### Etymology:

The word crocodile comes from the Ancient Greek κροκόδιος (crocodile), lizard, used in the phrase ἡ Κροκόδιος τοῦ ποταμοῦ, the lizard of the (Nile) river. There are several variant Greek forms of the word attested, including the later form κροκόδειλος (crocodile) found cited in many English reference work. In the Koine Greek of Roman times, crocodilos and crocodeilos would have been pronounced identically, and either or both may be the source of the Latinized form *crocodilus* used by the ancient Romans.

tortoise often has a noticeable V-shaped notch below the tail which facilitates passing the eggs. Upon completion of the incubation period, a fully formed hatchling uses an egg tooth to break out of its shell. It digs to the surface of the nest and begins a life of survival on its own. They are hatched with an embryonic egg sac which serves as a source of nutrition for the first three to seven days until they have the strength and mobility to find food. Juvenile tortoises often require a different balance of nutrients than adults, so may eat food which a more mature tortoise would not. For example, the young of a strictly herbivorous species commonly will consume worms or insect larvae for additional protein.



Young African sulcata tortoise

The number of concentric rings on the carapace, much like the cross section of a tree, can sometimes give a clue to how old the animal is but, since the growth depends highly on the accessibility of food and water, a tortoise that has access to plenty of forage with no seasonal variation will have no noticeable rings. Moreover, some tortoises grow more than one ring per season, and in some others, due to wear, some rings are no longer visible.

## Tortoise

## Tortoises

Tortoises are a family, Testudinidae, of land-dwelling reptiles in the order Testudines. Tortoises are shielded from predators by a shell. The top part of the shell is the carapace, the underside is the plastron, and the two are connected by the bridge.



Aldabra giant tortoise  
(*Aldabrachelys gigantea*)

The carapace is fused to both the vertebrae and ribcage, and tortoises are unique among vertebrates in that the pectoral and pelvic girdles are inside the ribcage rather than outside. Tortoises can vary in size from a few centimeters to two meters. They are usually diurnal animals. They are generally reclusive animals.

### Use of the terms turtle, tortoise, and terrapin:-

Differences exist in usage of the common terms turtle, tortoise, and terrapin, depending on the variety of English being used; usage is inconsistent and contradictory. These terms are common names and do not reflect precise biological or taxonomic distinctions.



Tile with two rabbits, two snakes, and a tortoise, illustration for Zakariya al-Qazwini's book, Iran, 19th century

The American Society of Ichthyologists and Herpetologists uses "turtle" to describe all species of the order Testudines, regardless of whether they are land-dwelling or sea-dwelling, and uses "tortoise" as more specific term for slow-moving terrestrial species. General American usage agrees; turtle is often a general term; tortoise is used only in reference to terrestrial turtles, or more narrowly, only those members of Testudinidae, the family of

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**DEPARTMENT OF ZOOLOGY**



**STUDENT STUDY PROJECT**

**ON**

**COLLECTING OF SPECIAL STORY ON GIANT ANIMAL(GORILLA)**

**AY:2018-19**

**II YEAR B.Sc BZC**

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4	T.SAVARAMMA	17033024445553
5	MK.SWATHI	17033024445535

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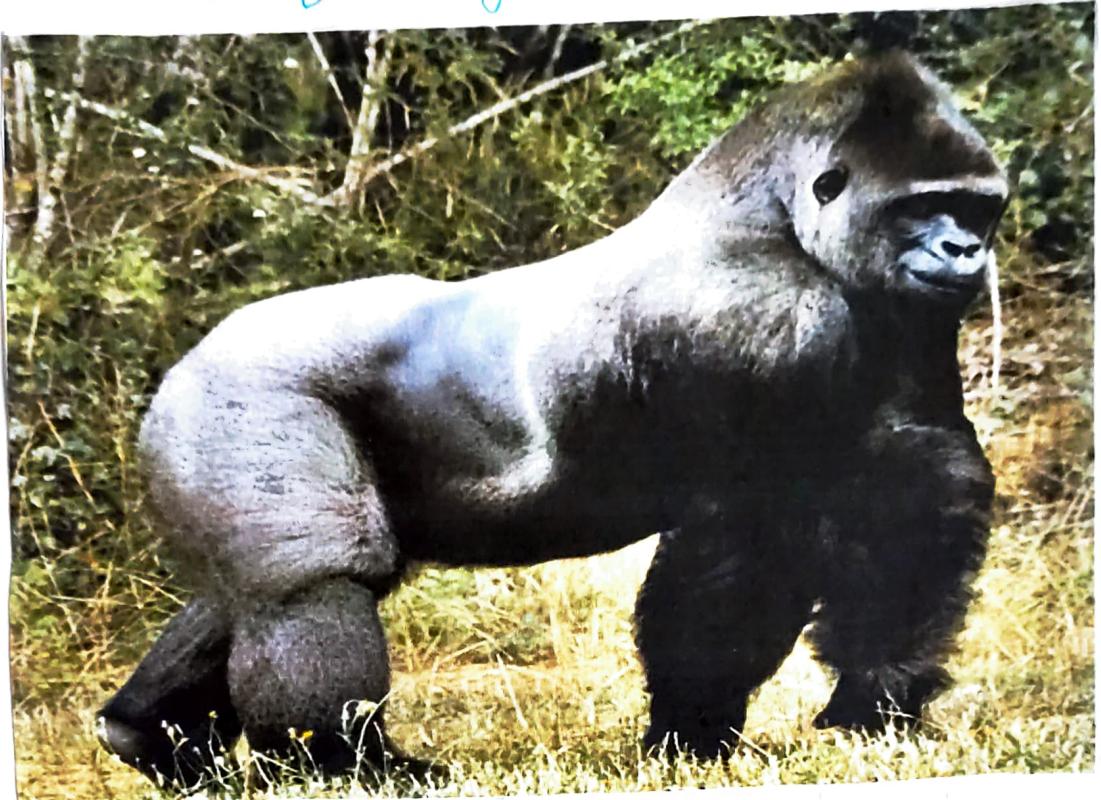
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*Harinath*  
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M.A.L.D. Govt. Degree College  
GADWAL - 509125

# King Kong



King Kong in a promotional image from the original  
1933 film.

First appearance :- King Kong (1933)

Created by :- Edgar Wallace

Merian C. Cooper

portrayed by :- Willis O'Brien (1933)

Rick Baker (1976)

Peter Elliot (1986)

Andy Serkis (2005)

Terry Notary (2017)

## Information

Aliases : - The Eighth wonder of the world

species : - Giant Monster

Family : - Kiko (son)

Lady Kong (wife)

Kong Jr. (son)

# King Kong

King Kong is a giant movie monster, resembling a colossal ape, that has appeared in various media since 1933. The character first appeared in the 1933 film King Kong, which received universal acclaim upon its initial release and re-releases. The film was remade in 1976 and 2005. The character has become one of the world's most famous movie icons, having inspired countless sequels, remakes, spin-offs, imitators, parodies, cartoons, books, remakes, spin-offs, comics, video games, theme park rides, and even a stage play. His role in the different narrative varieties, ranging from a rampaging monster to a tragic anti-hero.

## Overview:-

The King Kong character was conceived and created by American filmmaker Merian C. Cooper. In the original film, the character's name is Kong, a name given to him by the inhabitants of "Skull Island" in the Indian Ocean, where Kong lives along with other oversized animals such as a plesiosaur, pterosaurs and other dinosaurs. An American film crew, led by Carl Denham, captures Kong and takes him to New York City to be exhibited as the "English wonder of the world".

Kong escapes and climbs the Empire State Building, only to fall from the skyscraper after being attacked by airplanes with guns. Denham comments, "It was beauty killed the beast," for he climbs the building in the first place only in an attempt to protect Ann Darrow, an actress originally offered up to Kong on Skull Island as

mind.

Decades later in his adult years, Cooper became involved in the motion picture industry. While filming *The Four Feathers* in Africa, he came into contact with a family of baboons. This gave him the idea to make a picture about primates.



Merian C. Cooper glances up at his creation.

A year later when he got to RKO, Cooper wanted to film a "terror gorilla picture. As the story was being fleshed out, Cooper decided to make his gorilla giant sized." He came up with the ending before the rest of the on top of the building."

At this time, Cooper began to refer to his project as a "Giant terror gorilla picture" "featuring" a gigantic semi-humanoid gorilla pitted against modern civilization.



King Kong in a promotional image from the original 1933 film

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**DEPARTMENT OF ZOOLOGY**



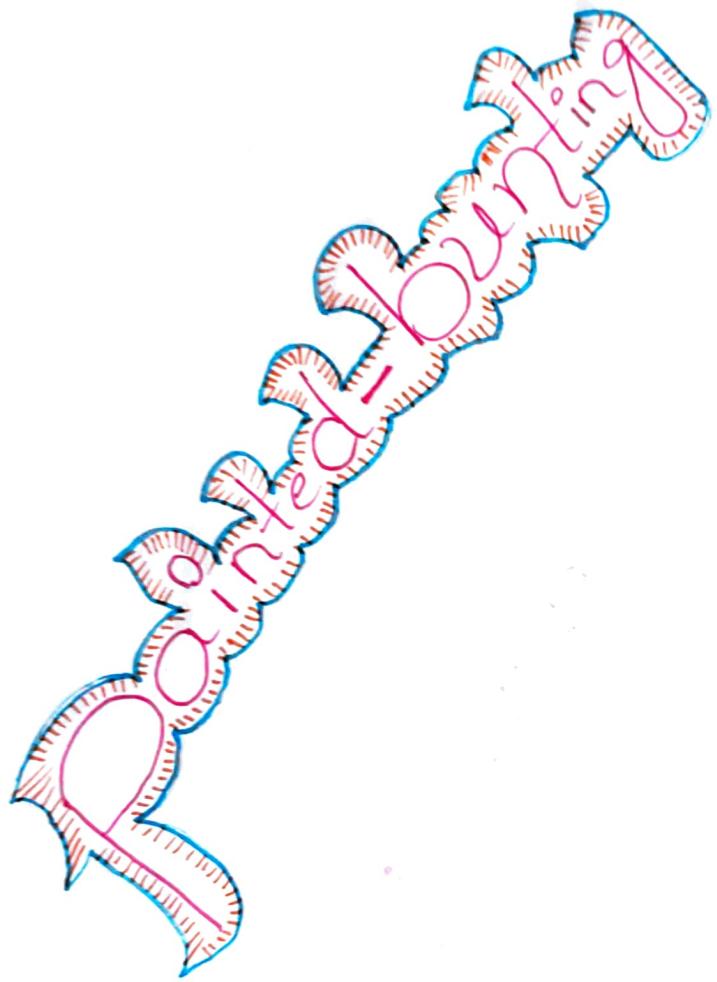
**STUDENT STUDY PROJECT  
ON  
COLLECTION OF DIFFERENT TYPES OF AVES  
AY:2019-2020  
II YEAR B.Sc BZC**

S.NO	NAME OF THE STUDENT	ROLL NUMBER
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2	C.GEETHA	18033024445525
3	EG.VINITHA	18033024445530
4	G.SATHYAMMA	18033024445537
5	ARUNAJYOTHI	18033088445502

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## =: Painted bunting :=

The "painted bunting" (*passerina ciris*) is a species of bird in the cardinal family, *cardinalidae*, that is native to "North America". The bright plumage of the male only comes in the second year of life, in the first year they can only be distinguished from the female by close inspection.

Taxonomy := The painted bunting was originally described by carl linnaeus in his eighteenth-century work *Systema Naturae*. There are two recognized subspecies of the painted bunting:

1) *P.C. ciris* - (Linnaeus, 1758):

nominate, breeds in the southeastern united states.

2) *P.C. pallidior* - mearns, 1911:

breeds in south central US and northern mexico.

Description := The male painted bunting is often described as the most beautiful bird in North America and as such has been nicknamed nonpareil, or "without equal." Its colors, dark blue head, green back, red rump, and underparts, make it extremely easy to identify, but it can still be difficult to spot since it often skulks in foliage even when it is singing. The plumage of female and juvenile painted

**Painted bunting**



**Male**

densely vegetated savanna. The breeding range is divided into two geographically separate areas. These include southern Arizona, southern New Mexico, southern and eastern Texas, Oklahoma, Arkansas, Louisiana, northern Florida, coastal Georgia, the southern coast and inland waterways such as the St. Lucie River of south Carolina and northern Mexico. They winter in south Florida, Cuba, the Bahamas, along both coasts of Mexico & through much of Central America. Occasionally, they may be vagrants further north, including to New York, Pennsylvania and New Jersey. The bird is also found every few years as far north as New Brunswick, Canada.

Behavior:= Painted buntings are shy, secretive & often difficult to observe for the human eye, though can be fairly approachable where habituated to bird feeders. Males bird feeders. Males sing in spring from exposed perches to advertise their territories. They also engage in visual displays including flying bouncingly like a butterfly or in an upright display, body-fluff display, bow display and wing-quiver display. These displays are used in agonistic conflicts with other males or in

### colour:-

The Montserrat Oriole (*Icterus oberi*) is a medium-sized black and yellow icterid (the same family as many black birds, meadowlarks, cowbirds, grackles" and others including the New World orioles)

### Location:-

It inhabits the centre Hills and south Soufriere Hills important Bird Areas on the island of Montserrat in the Lesser Antilles of the West Indies, and is the national bird of this British territory. It is threatened by habitat loss, and has been classified by Bird Life International as critically Endangered, with a current estimated population of between 300 and 800. Much of its habitat was destroyed by deforestation, Hurricane Hugo and the volcanic activity in 1995 and 1997.



The oriole once was found in areas: the bamboo forest east of Galways Soufriere, the leeward slopes of the Chances peak mountain and the centre Hills.



Name:- Geetha

Class:- 1<sup>st</sup> year

Group:- Bsc[MZC]

College:- MALD Govt. Degree college

H.NO:- 1603302415787

Submitted by Geetha

Submitted by Geetha

Submitted by Geetha

Submitted by Geetha

Submitted to Department of

"ZOOLOGY"

# Eagle

From wikipedia, the free encyclopedia

Eagle:- is a common name for many large birds of prey of the family Accipitridae; it belongs to several groups of genera that are not necessarily closely related to each other.



Bald eagle

## Scientific classification

Kingdom : Animalia

Phylum : chordata

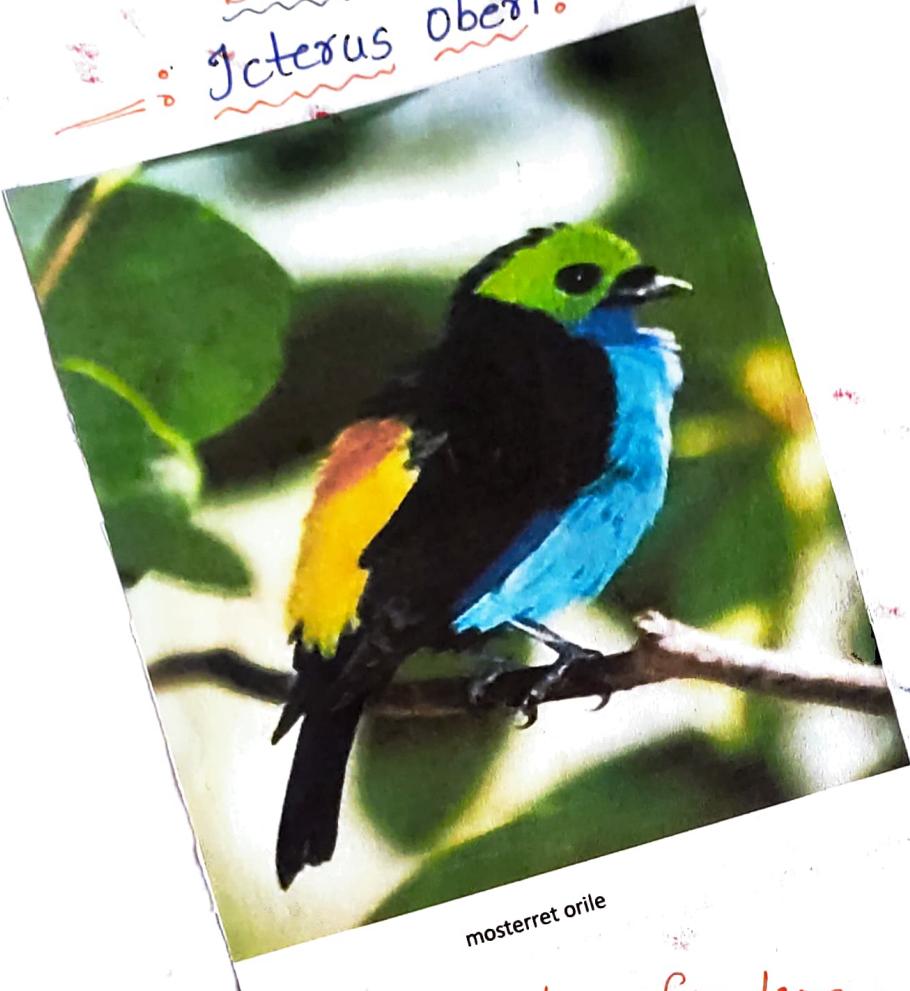
Class : Aves

Order : Accipitriformes

Family : Accipitridae

Most of the 60 species of eagles are from Eurasia and Africa. outside this area, just 14 species can be found - two in North America, nine in central and South America, and three in Australia.

Description:- Eagles are large, powerfully built birds of prey, with heavy heads and beaks. Even the smallest eagles, such as the booted eagle, which is comparable in size to a common buzzard or red-tailed hawk, have relatively longer and more evenly broad wings, and more direct, faster flight - despite the reduced size of aerodynamic feathers. The smallest species of eagle is the south Nicobar serpent eagle at 450 g (0.99 lb) and 42 cm (16in). The largest species are discussed below. Strong muscular legs, and powerful talons. Eagle's eyes are extremely powerful having up to 3.6 times human acuity for the martial eagle, which enables them to spot potential prey from a very long distance. The female of all known species of eagles is larger than the male. Many species lay two eggs, but the older, larger chick frequently kills its younger sibling once it has hatched. The dominant chick tends to be a female, as they are bigger than the male.



mosterret orile

: classification :

Kingdom : Animalia

phylum : chordata

class : Aves

Order : passeriformes

Family : Icteridae

Genus : Icterus

species : I. Oberi

## Great Indian Bustard Bird

The Great Indian Bustard found in India and the adjoining regions of Pakistan.

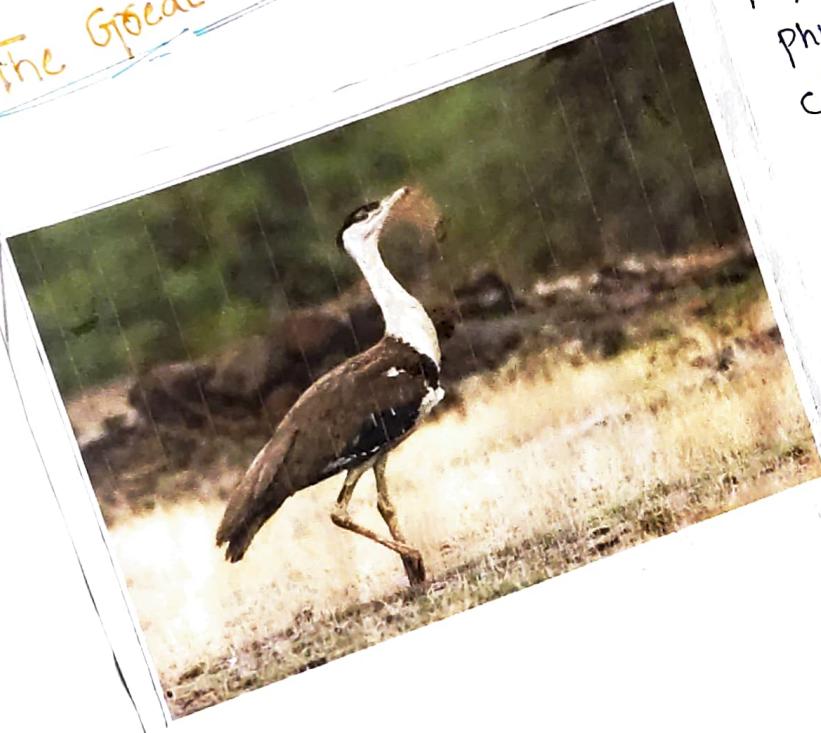
**Scientific name:** *Arodeotis nigriceps*

**Higher classification:** *Ardetis*

**Rank:** species

- \* Bustards, including floricans and korhaans, are large terrestrial birds living mainly in dry grassland areas and on the steppes of old world. They range in length from 40 to 150 cm. They make up the family Otididae. Bustards are omnivorous and opportunistic, eating leaves, buds, seeds, fruit, small vertebrates and invertebrates.
- \* Bustards are all fairly large with the two largest species, the Kori bustard (*Arodeotis kori*) and the great bustard (*Coturnix tarda*) being frequently cited as the world's heaviest flying birds.
- \* The smallest species is the little brown bustard (*Lepidoptilus humilis*), which is around 40cm long and weights around 600g (1.3lb) on average.
- \* In most bustards, males are substantially larger than females, often about 30% longer and sometimes more than twice weight.

# The Great Indian Bustard



## Classification

Kingdom: Animalia

Phylum: Chordata

Class: Aves

Clade: Otidimorphae

Family: Otididae

Wagler 1830

Rafinesque 1815

170 years. Reintroduced bustard also hatched chicks in 2010.

### Status and conservation:

most species are declining or endangered through habitat loss and hunting, even where they are nominally protected.

Bustards are gregarious outside the breeding season, but are very wary and difficult to approach in the open habitats they prefer.

The female lays three to five dark, speckled eggs in a scrape in the ground, and incubates them alone.



Summer tanager

## classification

kingdom : Animalia  
Phylum : chordata  
class : chordata  
order : Aves  
Sub order : Passeriformes  
Infraclass : Passeri  
Family : Passeridae  
Genus : cardinalidae  
Species : *Pitanga*  
*P. rubra*

Binomial name : *Pitanga rubra*

The summer tanager (*Piranga rubra*) is a medium sized American song bird. formerly placed in the tanager family (Thraupidae), it and other members of its genus are now classified in the cardinal family.

The species plumage and vocalizations are similar to other members of the cardinal family.

The genus name *Piranga* is from Tupi *Tijepiranga*, the name for an unknown small bird, and the specific *ruba* is from Latin *ruber*, red.

Their breeding habit is open wooded areas, especially with oaks, across the southern United States, extending as far north as Iowa. These birds migrate to Mexico, Central America and northern South America. This tanager is an extremely rare vagrant to western Europe.

Adults have stout pointed bills and measure 17 cm (6.7 in) length and 29 g (1.0 oz) in weight. Adult males are rose red and similar in appearance to the hepatic tanager, although the latter has a dark bill. Females are orangish on the underparts and olive on top, with olive-brown wings and tail. As with all other birds, all red and orange colorations are acquired through their diet.

## References

- \* Bird life international (2018). "Piranga rubra". IUCN Red list of Threatened species. Version 2013.2. International union for conservation of Nature.

## External skills

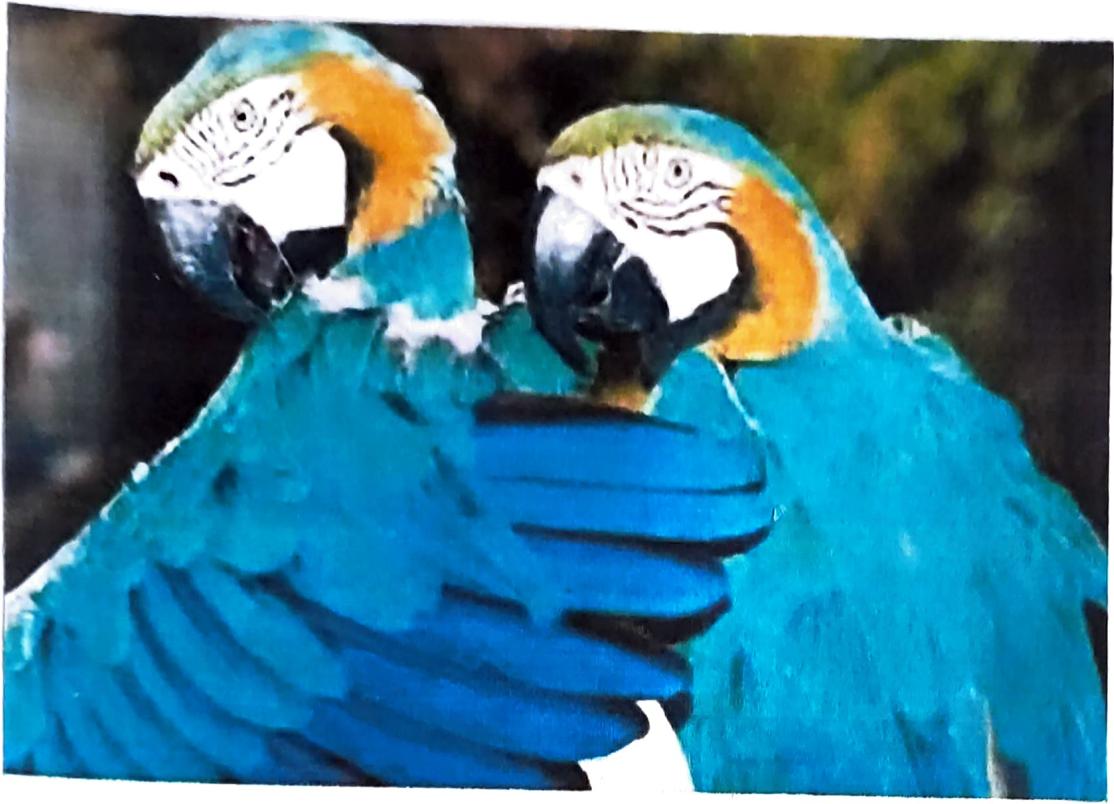
- \* Summer tanager bird sound from the florida museum of natural history.
- \* Summer tanager species account at Neotropical birds.



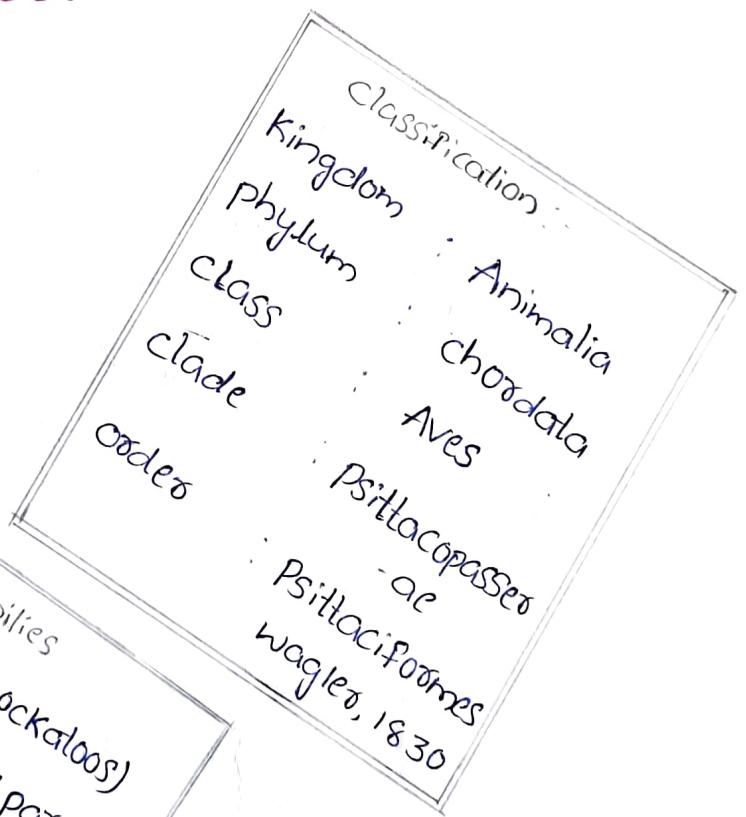
## Ecology

The snowy owl is typically found in the northern circumpolar region, where it makes its summer home north of latitude 60° north. However, it is a particularly nomadic bird, and because population fluctuations in its prey species can force it to relocate, it has been known to breed at more southerly latitudes. During the last glacial there was a Central European subspecies, *Bubo scandiacus gallicus* but no modern subspecies are recognized.

This species of owl nests on the ground, building a scrape on top of a mound or boulder. A site with good visibility of chosen, such as the top of a mound with ready access to hunting areas and a lack of snow. Gravel bars and abandoned eagle nests may be used. The female scrapes a small hollow before laying the eggs. Breeding occurs in May to June, and depending on the amount of prey available, clutch sizes range from 3 to 11 eggs, which are laid singly, approximately every other day over the course of several days. Hatching takes place approximately five weeks after laying, and the pure white young are cared by both parents. Males may mate with two females that may nest about a kilometer apart. Some individuals stay on the breeding grounds while others migrate.



## Parrot



Superfamilies:

- Cacatuoidae (cockatoos)
- Psittacoidea (true parrots)
- Strigopoidea (New Zealand parrots)

## Parrot :-

### Classification :-

parrots, also known as psittacines /SISSAINZ/, are birds of the roughly 393 species in 92 genera that make up the order Psittaciformes, found in most tropical and subtropical regions. The order is subdivided into three superfamilies: the Psittacoidea ("true" parrots), the Cacatuoidae (cockatoos), and the Strigopoidea (New Zealand parrots). Parrots have a generally pantropical distribution with several species inhabiting temperate regions in the Southern Hemisphere, as well. The greatest diversity of parrots is in South America and Australasia.



### Characteristics :-

Characteristics features of parrots include a strong curved bill, an upright stance, strong legs, and clawed zygodactyl feet. Many parrots are vividly coloured, and some are multi-coloured. Most parrots exhibit little or no sexual dimorphism in the visual spectrum. They form the most variably sized bird order in terms of length.



## Food habit :-

The most important components of most parrots' diets are seeds, nuts, fruit, buds and other plants material. A few species sometimes eat animals and carrion, while the lorries and lorikeets are specialised for feeding on floral nectar and soft fruits. Almost all parrots nest in tree hollows, and lay white eggs from which hatch altricial (helpless) young, as well as hunting.



## Voices :-

Parrots, along with ravens, crows, jays, and magpies are among the most intelligent birds, and the ability of some species to imitate human voices enhances their popularity as pets. Some parrots are intelligent and talk at the level of a four-to five year old human. Trapping wild parrots for the pet trade as well as hunting, habitat loss, and competition from invasive species, has diminished wild populations, with parrots being subjected to more exploitation than any other group of birds.



## Taxonomy:

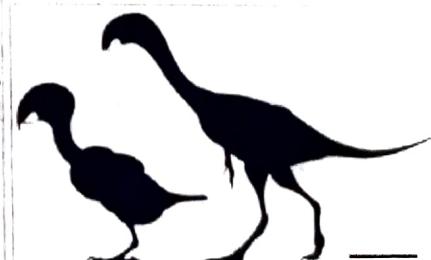
## Origins and Evolution:

Psittaciform diversity in South America and Australasia suggests that the order may have evolved in Gondwana, centred in Australasia. The scarcity of parrots in the fossil record, however, presents difficulties in confirming the hypothesis, and there is currently a higher amount of fossil remains from the northern hemisphere in the early Cenozoic. Molecular studies suggest that parrots evolved approximately 59 million years ago (Mya) (range 66 - 51 Mya) in Gondwana. The three major clades of Neotropical parrots originated about 50 mya (range 57 -



Range of parrots, all species (red)

A single 15mm (0.6in) fragment from a large lower bill (UCMP 143274) found in deposits from the Lance Creek Formation in Niobrara County, Wyoming, had been thought to be the oldest parrot fossil and is presumed to have originated from the late Cretaceous period, which makes it about 70 million years old. The earliest-known unequivocal parrot fossils. Likewise, the earliest parrots do not have the specialised crushing bills of modern species. If so they probably had not evolved their morphological autapomorphies yet but were generalised arboreal birds. The combined evidence supported the hypothesis of psittaciformes being near



Fossil dentary specimen UCMP 143274 restored as a parrot (left) or an oviraptorosaur



snowyowl

### classification

Phylum : chordata  
Class : Aves  
Order : Strigiformes  
Family : Strigidae  
Genus : Bubo  
Species : *B. scandiacus*

Binomial Name : *Bubo scandiacus*

The snowy owl is a large, white owl of the typical owl family. Snowy owls are native to Arctic regions in North America and Eurasia. Males are almost all white, while females have more flecks of black plumage. Juvenile snowy owls have black feathers until they turn white. The snowy owl is a ground nester that predominantly hunts rodents.

## Taxonomy

The snowy owl was one of the many bird species originally described by Linnaeus in the landmark 1758 10th edition of his *Systema Naturae*, where it given the binomial name of *Strix scandiaca*. The genus name *Bubo* is Latin for the Eurasian eagle-owl and *scandiaca* is New Latin for Scandinavia.

Until recently, the snowy owl regarded as the sole member of a distinct genus, as *Nyctea scandiaca*, but mtDNA cytochrome b sequence data shows that it is very closely related to the horned owls in the genus *Bubo*. However, some authorities debate this classification, still preferring *Nyctea*.

## Description

This yellow-eyed, black beaked white bird is easily recognisable. It is 52-71 cm long, with a 125-150 cm wingspan. Also, these owls can weigh anywhere from 1.6 to 3 kg (3.5 to 6.6 lb). The average lifespan in the wild is 9.5 years. It is one of the largest species of owl land, in North America.

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**DEPARTMENT OF ZOOLOGY**



**STUDENT STUDY PROJECT**

**ON**

**INFORMATION ABOUT CANADENSIS AND GANGETIC DOLPHIN**

**AY:2019-2020**

**II YEAR B.Sc BZC**

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Binomial Name :- *platanista Gangetica*



*ganges river dolphin*

= classification =

Kingdom : *Animalia*

Phylum : *Chordata*

Class : *Mammalia*

Order : *Artiodactyla*

Infra order: *Cetacea*

Family: *platanistidae*

Genus : *platanista*

Species: *P. Gangetica*

Dolphins are one of the oldest creatures in the world along with some species of turtles, crocodiles and sharks. The Ganges river dolphin was officially discovered in 1801. Ganges river dolphin once lived in the Ganges.



The Ganges river dolphin can only live in fresh water and is essentially blind. They hunt by emitting ultrasonic sounds, which bounces off fish and other prey, enabling them to see an image in their mind. They are frequently found alone or in small groups and generally a mother and calf travel together. Calves are chocolate brown at birth and then have grey-brown smooth, hairless skin as adults. Females are larger than males and give birth once every two to three years to only one calf.

The immediate danger for the resident population of *P. gangeticus* in National Chambal Sanctuary is the decrease in river depth and appearance of sand bars dividing the river course into smaller segments.



\* In 1996, the Wild Life Advisory Committee and Wild Life Institute were established for seeking advice on different features of Wild Life conservation and matters related to it.

There are several other initiatives which have been taken up by the government to save the Endangered Species of India.

India is part of five main international conventions which are associated to Wild Life conservation. They are

- (i) Convention on International Trade in Endangered species. [CITES]
- (ii) Coalition Against Wild life Trafficking [CAWT]
- (iii) International Whaling Commission [IWC]
- (iv) United Nations Educational, Scientific and Cultural Organization - World Heritage Committee. [UNESCO-WHC]
- (v) Convention on Migratory species [CMS]

## Few ways to save Endangered Animals:-

- \* If pollution can be controlled all across the globe then it can have a major positive impact on the fish and birds all over the world.
- \* To save the Endangered Animals from extinction, a number of breeding programmes have been introduced. The government, NGOs and other corporate bodies should come forward for this noble cause as this programme involves dedicated and special people and of course a lot of money.
- \* Re introducing the Endangered animals to the wild once their numbers increase has become successful in some cases though all species have not done well.
- \* If hunting and poaching can be controlled then there can be a significant change in the numbers of the Endangered animals.



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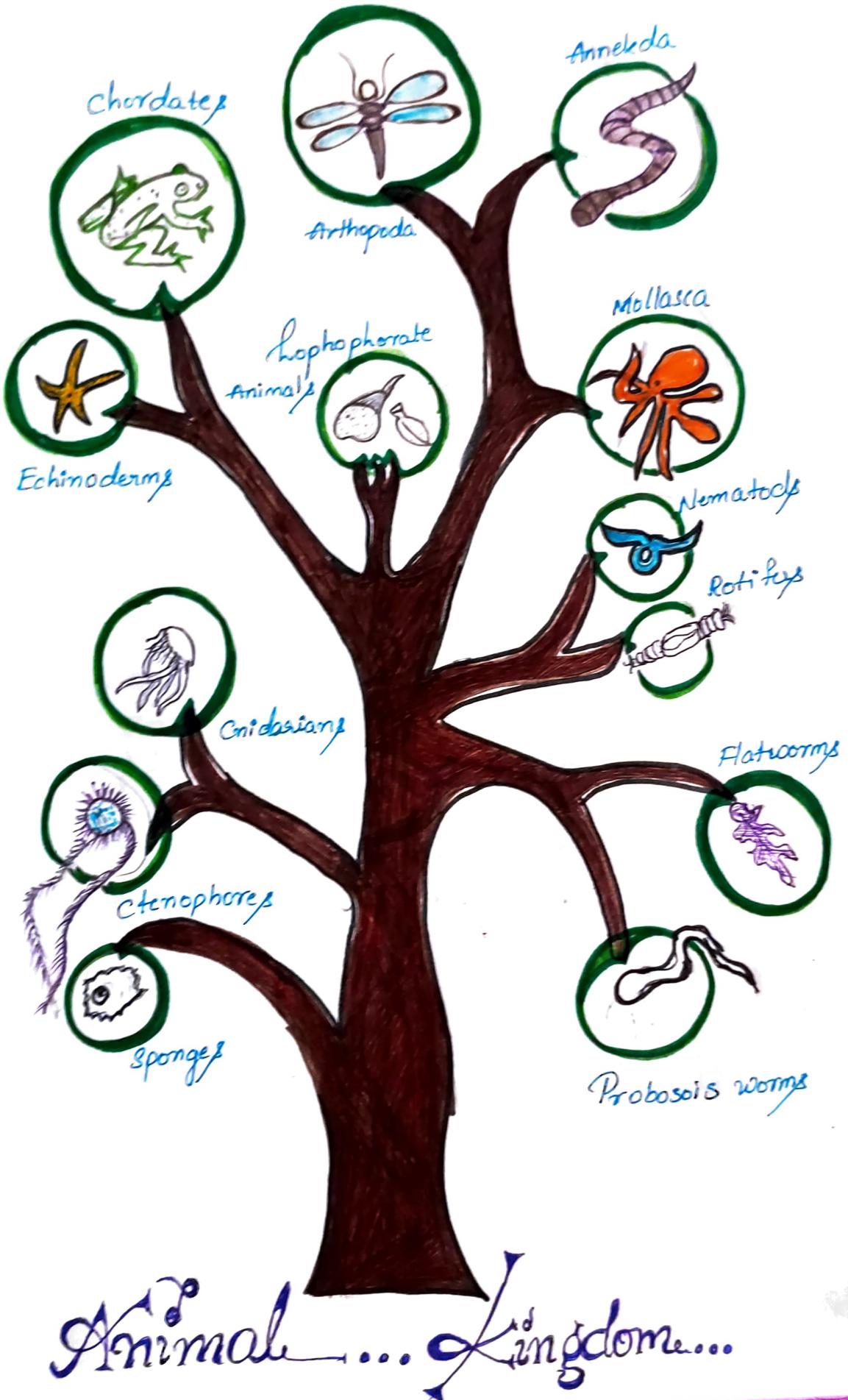
**STUDENT STUDY PROJECT  
ON  
INFORMATION ABOUT UNSPECIFIED INVERTEBRATES  
AY:2020-21**

**I YEAR B.Sc BZC,MZC & BT.ZC**

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5	ES SWARNABHAVANI	20033024489001

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# Phylum - Protozoa :-

## Taxoplasma classification :-

Phylum :- Apicomplexa / Protozoa

Class :- Sporozoa

Family :- Toxoplasmatidae

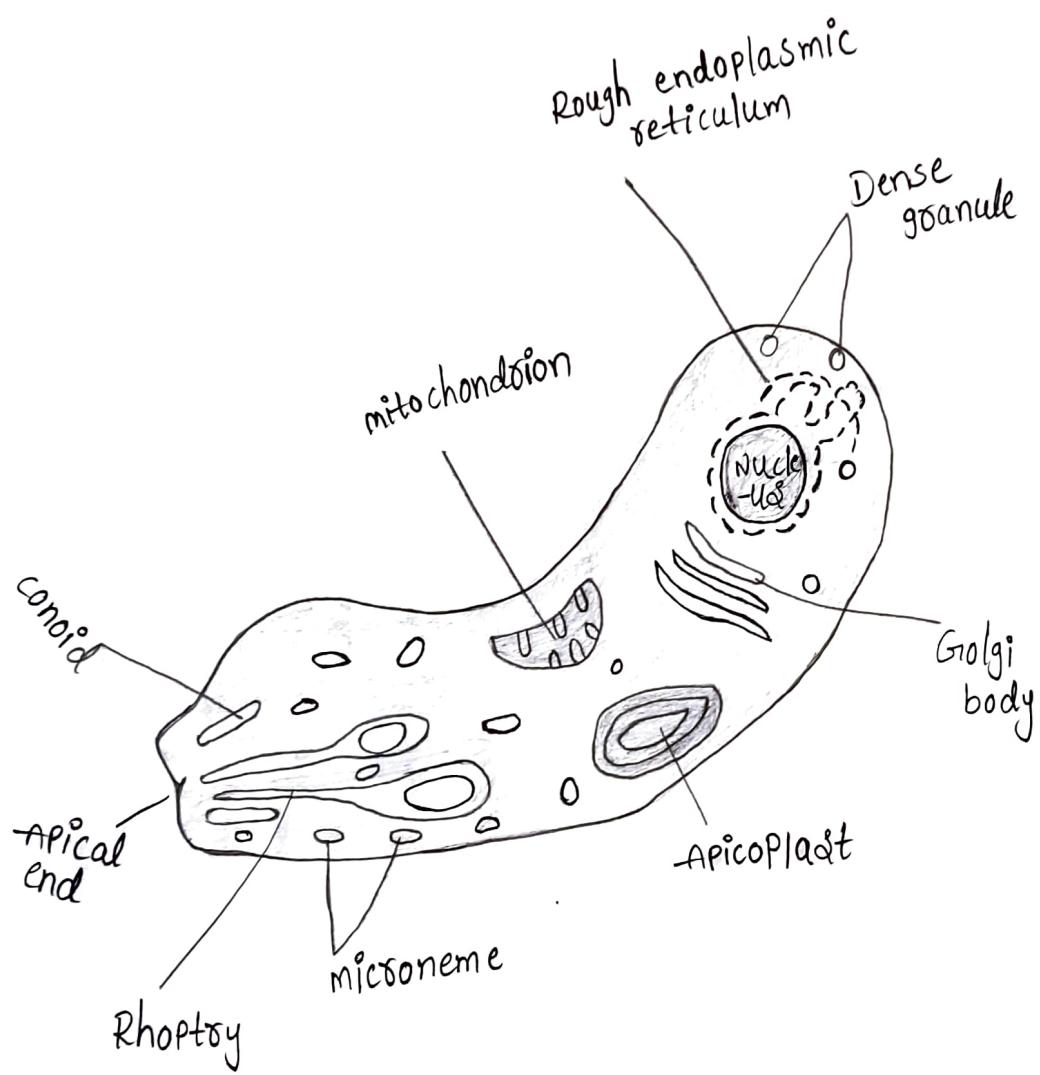
Genus :- Toxoplasma

Species :- T. gondii

Order :- Eucoccidia

Kingdom :- Alveolata

Introduction :- Taxoplasma gondii which is intracellular protozoan is a food and water borne parasite about 1 billion people in the world. T. gondii is a zootropic protozoan that can infect all warm blooded animals including birds, farm animals, marine mammals, and humans (2-4) cats are definitive host and shed oocysts via feces for 1 to 2 weeks after a new infection. Oocysts are sporulated in environmental condition 1-5 sporulated oocyst



*Toxoplasma gondii*

Phylum - Protozoa :-

② Nosema bombyciæ :-

Nosema bombyciæ classification :-

Phylum :- Microsporidia

Class :- Haplophasea / microspora

Family :- Nosematidae

Genus :- Nosema

Species :- Bombyciæ

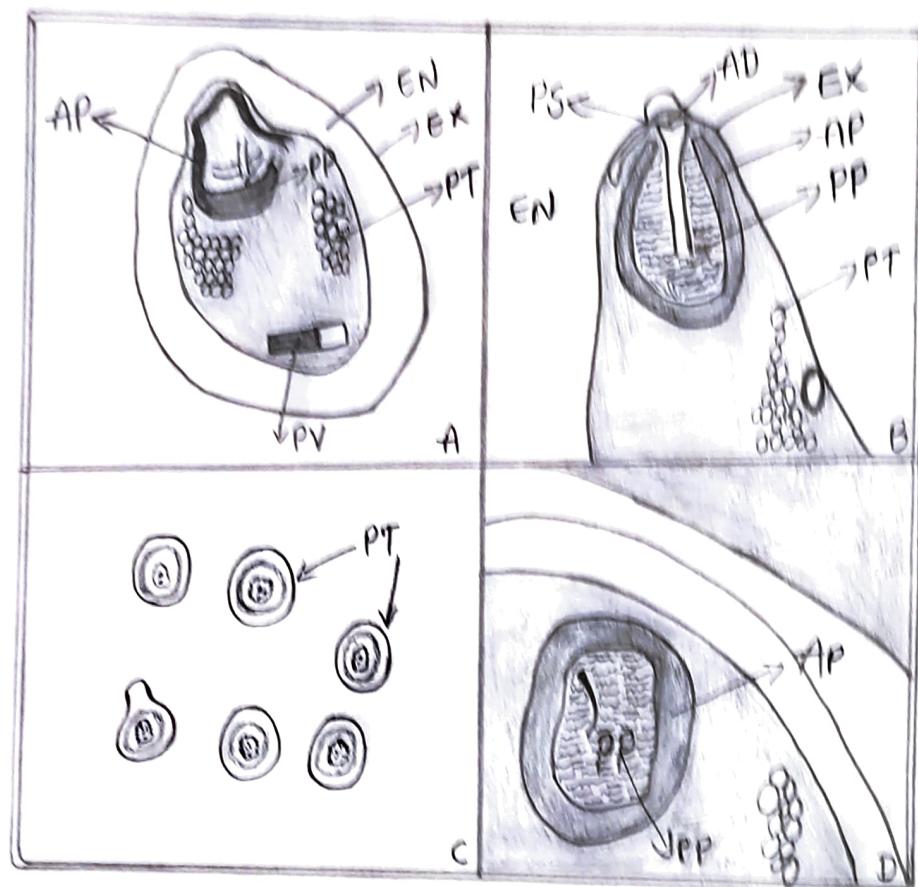
Order :- Dissociodihaplophasida

Kingdom :- Fungi

Introduction :-

Nosema bombyciæ is a microscopic protozoa causes PEBRINE disease of silk worm. It was first recorded in France in 1845 and later spread to Italy, Spain, Syria and Romania. It was responsible for the collapse of the French and Italian industry in 1865. Natural silk is produced in sixty countries.

Nosema      Bombycid



② Phylum - Porifera :-

① Leucosolenia classification :-

Phylum :- Porifera

Class :- Calcarea

Family :- Leucosolenidae

Genus :- Leucosolenia

Species :- Leucosolenia blanca

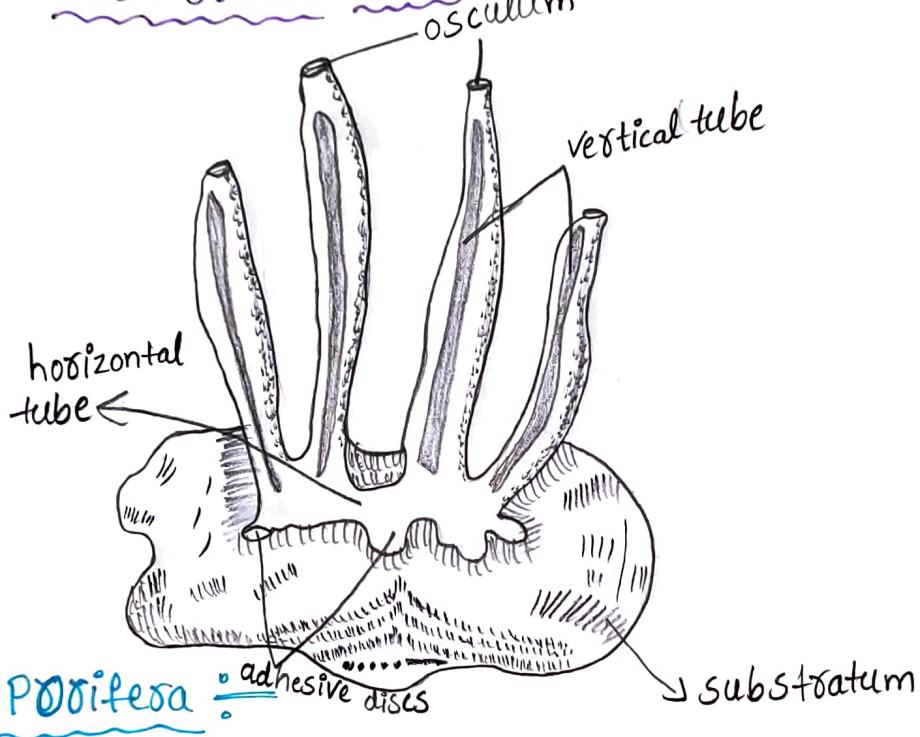
Kingdom :- Animalia

Introduction :-

A new species of Leucosolenia, sp. nov. is described. This new species was collected in a scallop-breeding pond from the Yellow Sea and preserved in 75% ethanol. The sponge consists of a dense reticulation of acon tubes, with the surface minutely hispid and the consistency soft and fragile. Spiculation of the new species consists of diactines, which are smooth.

Single or slightly curved, calcareous hexactines of two types. which short and curved apical accined. slightly overlap and is some irregularly assembled. ① The regeneration of the body wall ② the regeneration of the amputated oscular tube.

### Leucosolenia blanca



### ② phylum - Hyalonema classification

phylum - Porifera

class - Hexactinellida

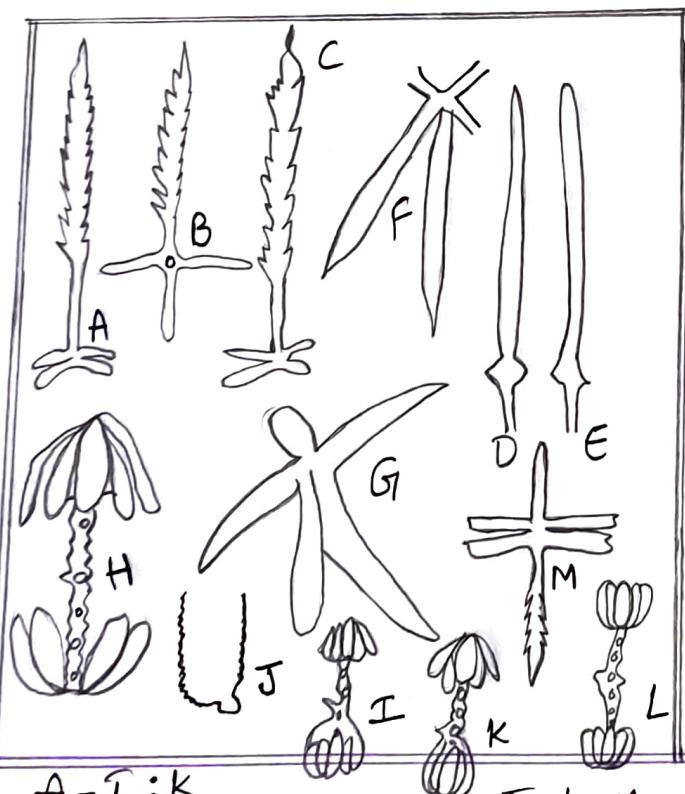
Family - Hyalonematidae

Genus - Hyalonema Gray

Species - Hyalonema Sieboldii

china (71%) and India (14%) are the major producers of silk. India has a unique distinction of being the only country in world producing four varieties of silk viz. The microsporidia are a large group of intracellular parasites with a broad range of hosts, including humans. Microsporidia is a group of species - forming that a large number of vertebrate and invertebrate hosts. For the last three decades reports of microsporidia infections have increased significantly. People diagnosed HIV/AIDS.

### Hyalonema sieboldii



A-I; K  
0.2 mm

J; L-M  
0.05 mm

### ③ Phylum - coelenterata :-

#### ① Rhizostoma classification :-

Phylum :- cnidaria

Class :- scyphozoa

Family :- Rhizostomeae / rhizostomatidae

Genus :- Rhizostoma curvex

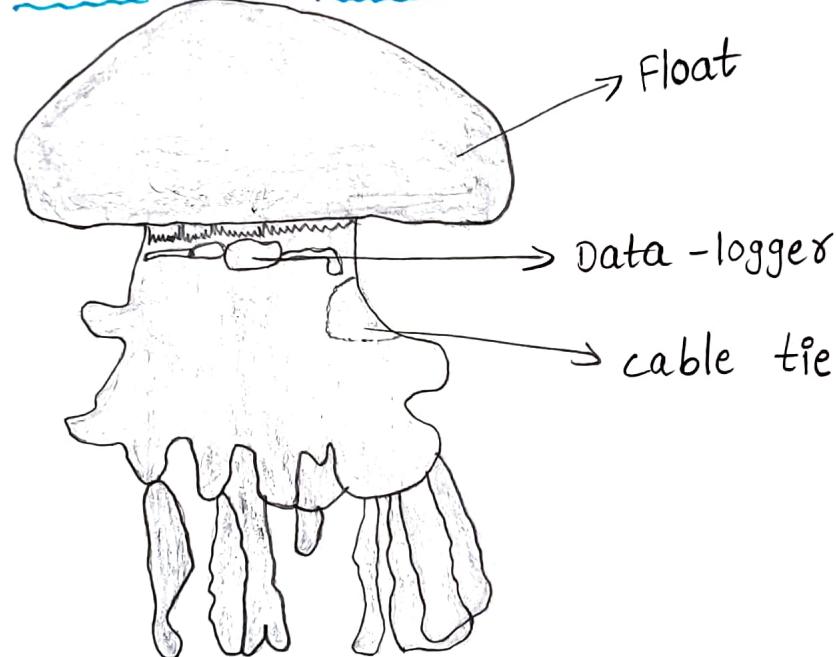
Species :- Rhizostoma pulmo

Kingdom :- Animalia

Rhizostoma pulmo the mediterranean basic is one of the regions heavily affected by jellyfish bloom phenomenon mainly due to the presence of Scyphozoans such as Rhizostoma pulma. The jellyfish have few natural predators, and their bodies deposit at organic rich substrate that can support rapid bacterial growth with great impact on the structure of marine food web. In Asiatic countries, jellyfish are widely studied for their health benefits. But their nutritional and values still

remain poorly characterized. Jelly fish represent one of the most widespread components of marine ecosystems and their presence as a natural phenomenon is strictly related to density. In recent years, numerous outbreaks of jelly fish have been recorded in many marine areas this species have the most abundant along the Mediterranean coast in recent.

### Rhizostoma Palmo



### ② zoanthus classification :

Phylum - cnidaria

Class - Anthozoa

Family - Zoanthidae

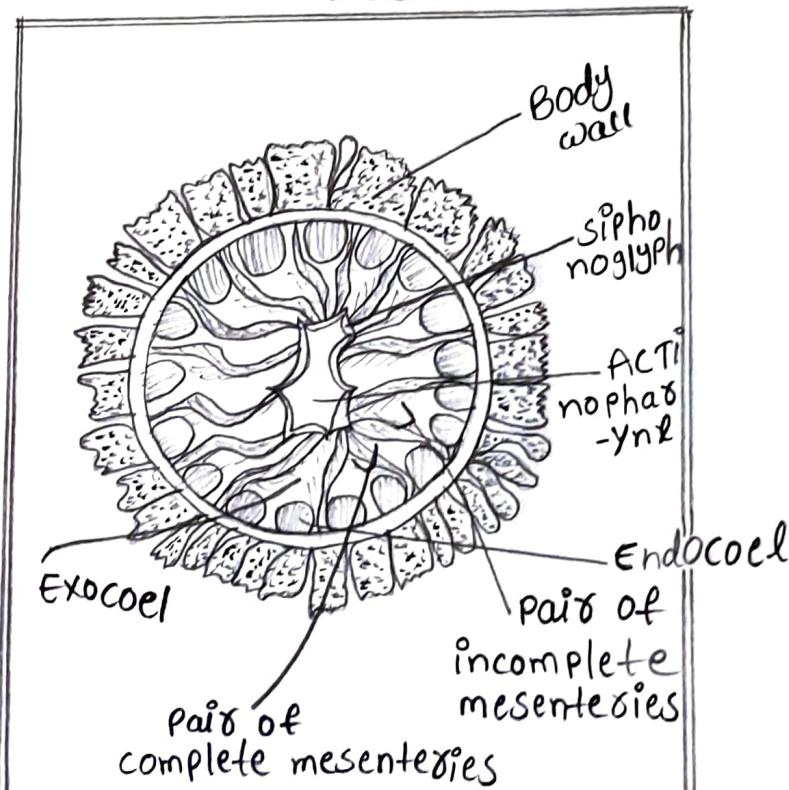
Genus - zoanthus

Species - zoanthus giganthus

King dom - Animalia

The clear method of identifying species in the zoanthid genus *Zoanthus* has been established, due in part to the morphological plasticity of this genus previous research utilizing the mitochondrial cytochrome oxidase I gene (COI) as a phylogenetic marker indicated that *Zoanthus* spp. The encrusting anemone zoanthid genus *Zoanthus* is distributed worldwide in shallow subtropical and tropical and tropical waters, and is commonly found on rocks and coral reef edges exposed & studied on *Zoanthus* spp.

### *Zoanthus giganthus*



## ④ Phylum - Plathelminthes :-

### ① Echinococcus classification :-

Phylum — plathelminthes

class — cestoda

Family — Taenidae

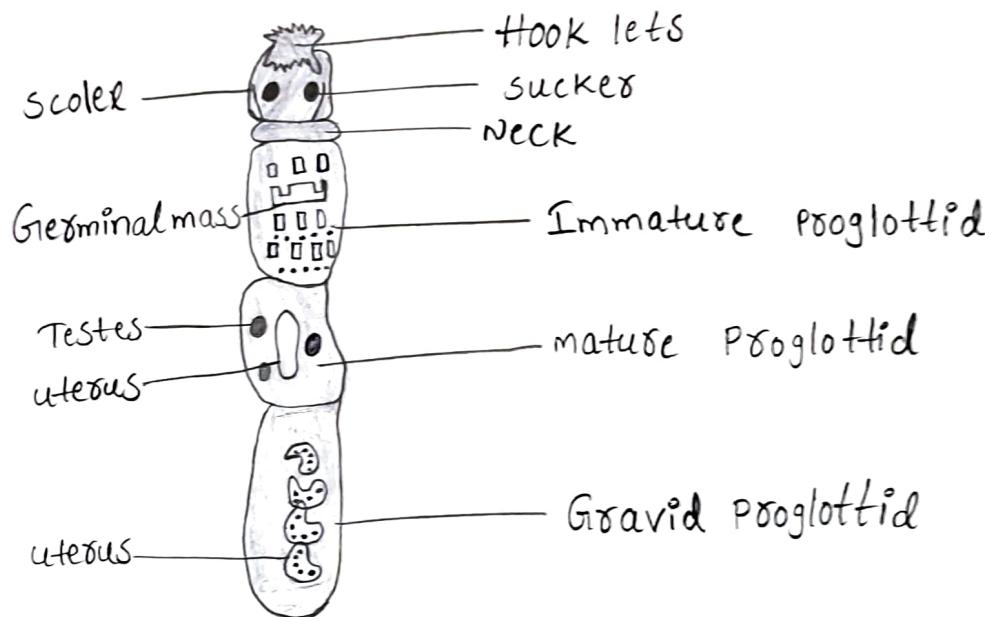
Genus — Echinococcus

Species — Echinococcus granulosus

Kingdom — Animalia

Hydatid cysts of *Echinococcus granulosus* develop in internal organs of humans and other intermediate hosts as unilocular fluid-filled bladders. The definitive hosts of *E. granulosus* are carnivores such as dogs and wolves, which are infected by ingestion of offal containing hydatid cysts with viable protoscoleces. After ingestion, the evaginate, attach to the canine intestinal mucosa and developed in to adult staged. Sexual maturity is reached 4-5 weeks.

lated. Eggs are gravid proglottids are the shed in the feces. Following ingestion by human or ungulate intermediate host an through blood or lymph vessels to the liver, lung, or other organs, since the life cycle on carnivores eating infected herbivores, is an important parasite disease caused by the dog tapeworm *Echinococcus granulosus*.



### *Echinococcus granulosus*

#### ② *convoluta* classification :-

Phylum - Xenacoelomorpha

Class - Tremellaria

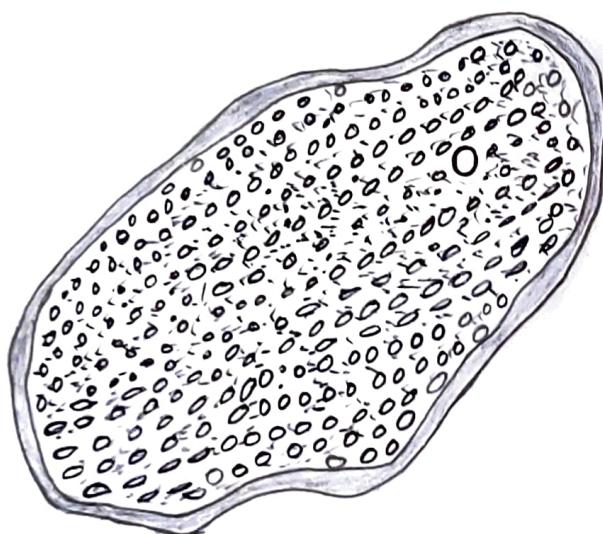
Family - convolutidae

Genus - convoluta

Species - c. convoluta

Kingdom: Animalia

A distinct smell of dimethylsulfide (DMS) was noted at the edge of the intertidal mudflat of marennesoleuron Bay, at the french Atlantic coast, where dense populations of the marine flatworm *convoluta roscoffensis* Graft were present. In the field, *convoluta* colonies are easily recognized as deep green spots on the sand between the tide marks on the edge of residual seawater. A feature of *c. roscoffensis* that has not been reported.

convoluta convoluta

## ⑤ Phylum - nematoda :-

### ⑥ Trichinella classification :-

Kingdom - Animalia

Phylum - nematoda

Class - Adenophora / Aschidae

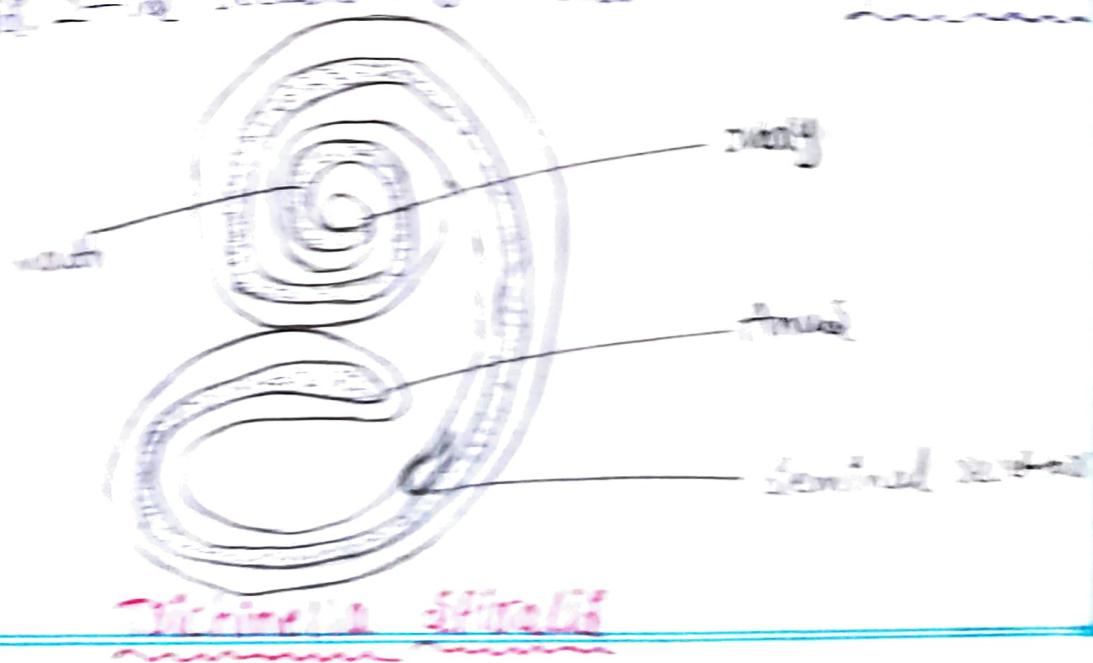
Order - Trichinida

Family - Trichinellidae

Genus - Trichinella

Species - Trichinella spiralis

⇒ Trichinella spiralis is a nematode parasite  
of rodent, bovid, swine and humans in the diseases  
of trichinosis is causally related to the "pork meat"



⑤ Phylum - Nematoda :-

② Ancylostoma classification :-

King dom :- Animalia

Phylum :- Nematoda

class :- secoenentea / phasmida

order :- Strongylida

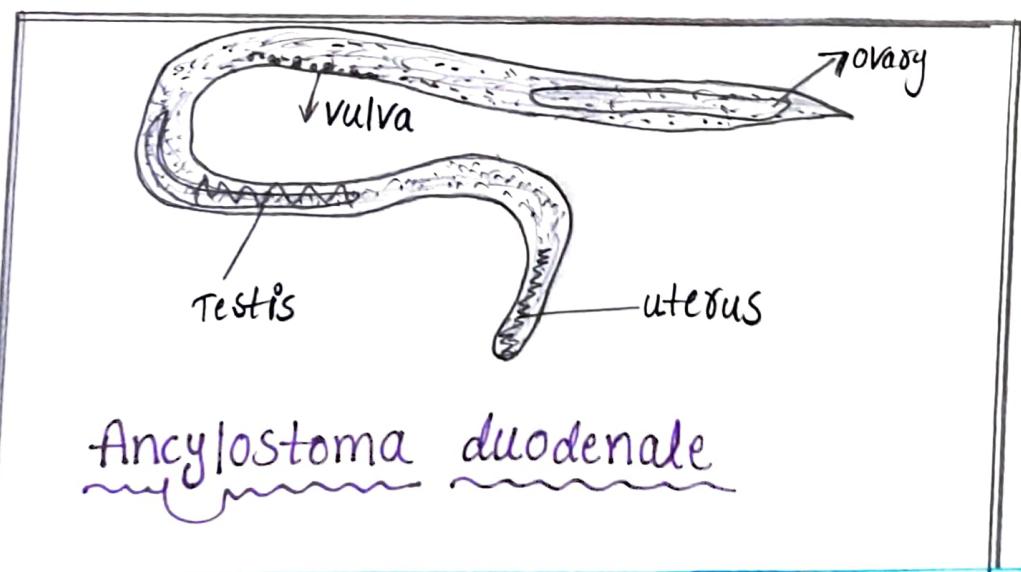
Family :- Ancylostomatidae

Genus :- Ancylostoma

species :- Ancylostoma duodenale

⇒ Intestinal hook worm disease in human is caused by Ancylostoma duodenale.

⇒ Hook worm symptoms are abdominal pain, intestinal cramps, nausea, fever, a loss of appetite, blood in your stool. A ceylanicum and necator americanus.



⑥ Phylum - Annelida :-

② Protodrilus classification :-

Kingdom - Animalia

Phylum - Annelida

Class - Polychaeta

Family - Protodillidae

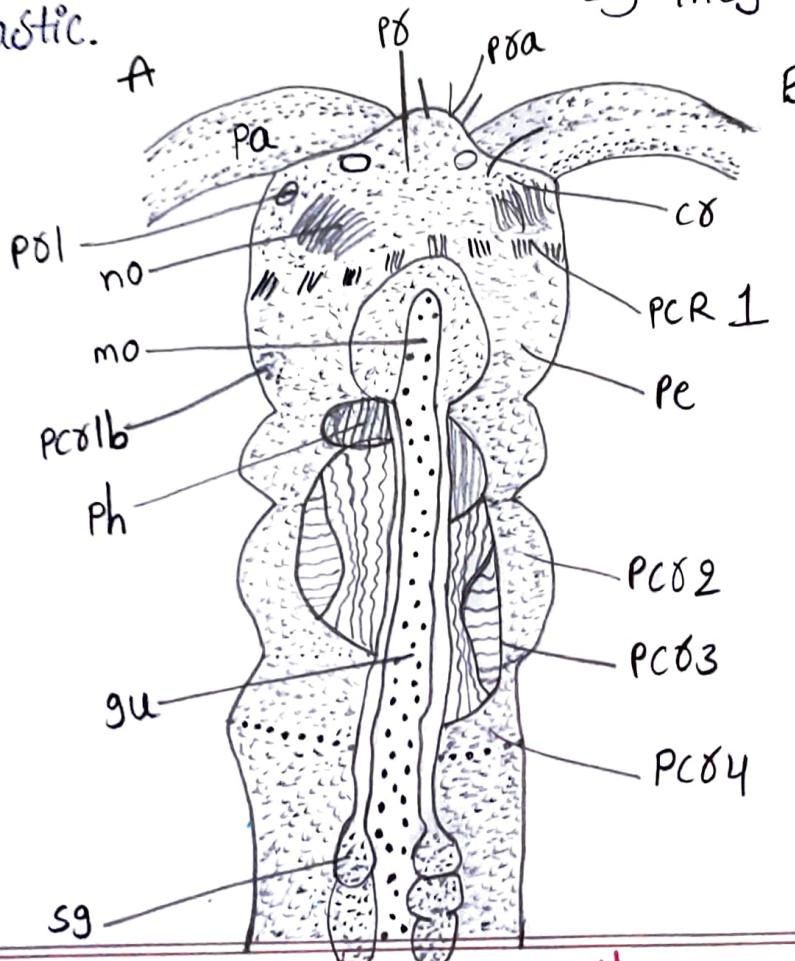
Order - Canalipalpata

Genus - Protodrilus

Species - Protodrilus adhaerens

They have a long and segmented body.  $\Rightarrow$  They are triploblastic.

$\Rightarrow$  They are coelomate.



Protodrilus adhaerens

⑦ phylum : Arthropoda

① Limulus classification :

Phylum — Arthropoda

King dom — Animalia

class — Mesostomata

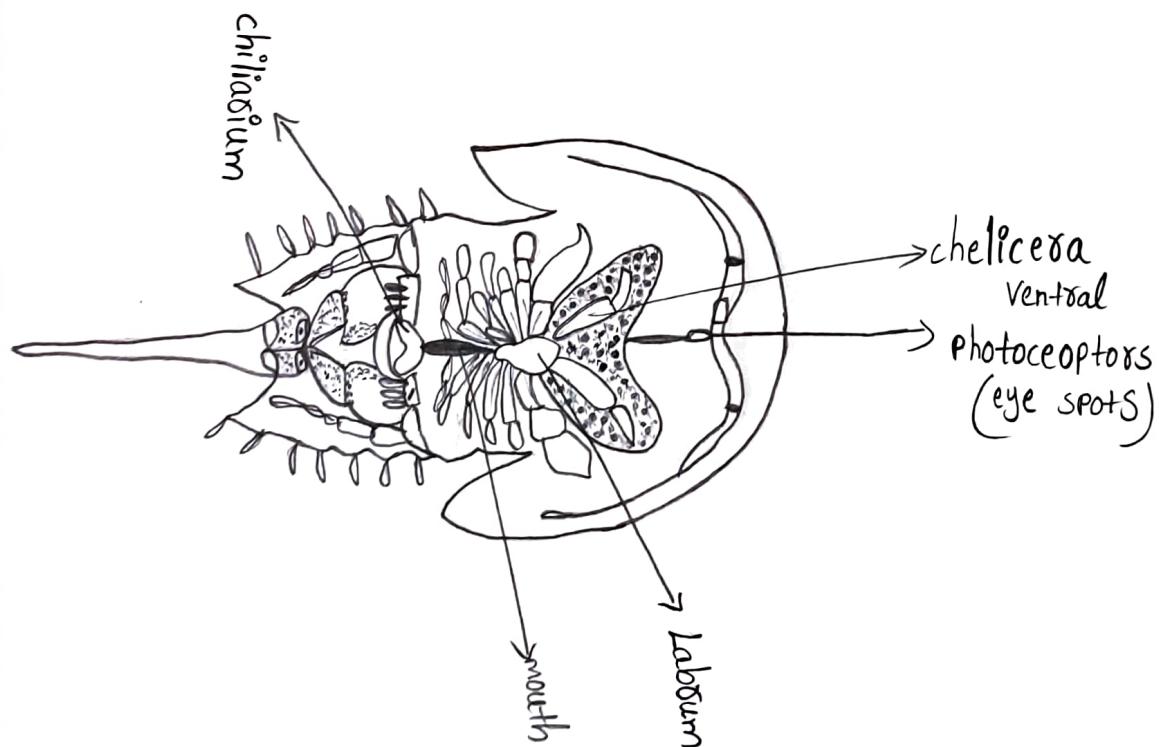
Family — Limulidae

order — xiphosura

Genus — Limulus

Specie — Limulus polyphemus

⇒ Limulus polyphemus can be maintained a wide variety of systems from fiberglass tank with various types of biological filtration. ⇒ common disease is epizootic shell disease.



Limulus polyphemus

Phylum — Arthropoda :-

Spisobolus classification :-

King dom :- Animalia

Phylum :- arthropoda

class :- Diplopoda

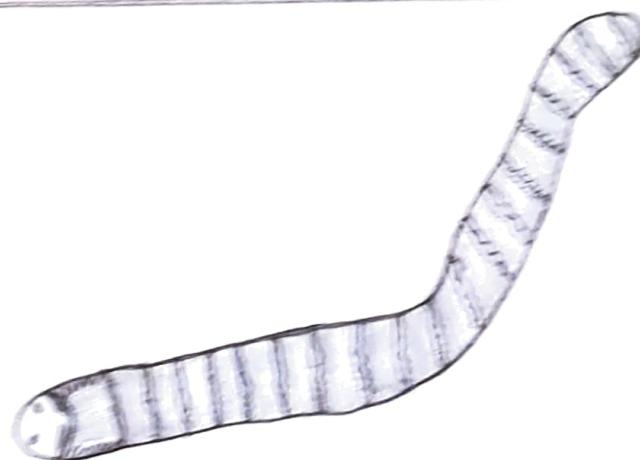
Family :- Spisobolidae

order :- Spirobolida

Genus :- Spisobolus

Species :- *spisobolus coebostiatus*

⇒ *spisobolus* is a family of millipeds in the order of spirobolidida. ⇒ which is represented by diverse organism having simple cellular organization. Having a delicate body.



spisobolus coebostiatus

⑧ Phylum: Mollusca

⑨ Nautilus classification

King dom: Animalia

Phylum: Mollusca

Class: cephalopoda

order: Nautilida

Family: Nautilidae

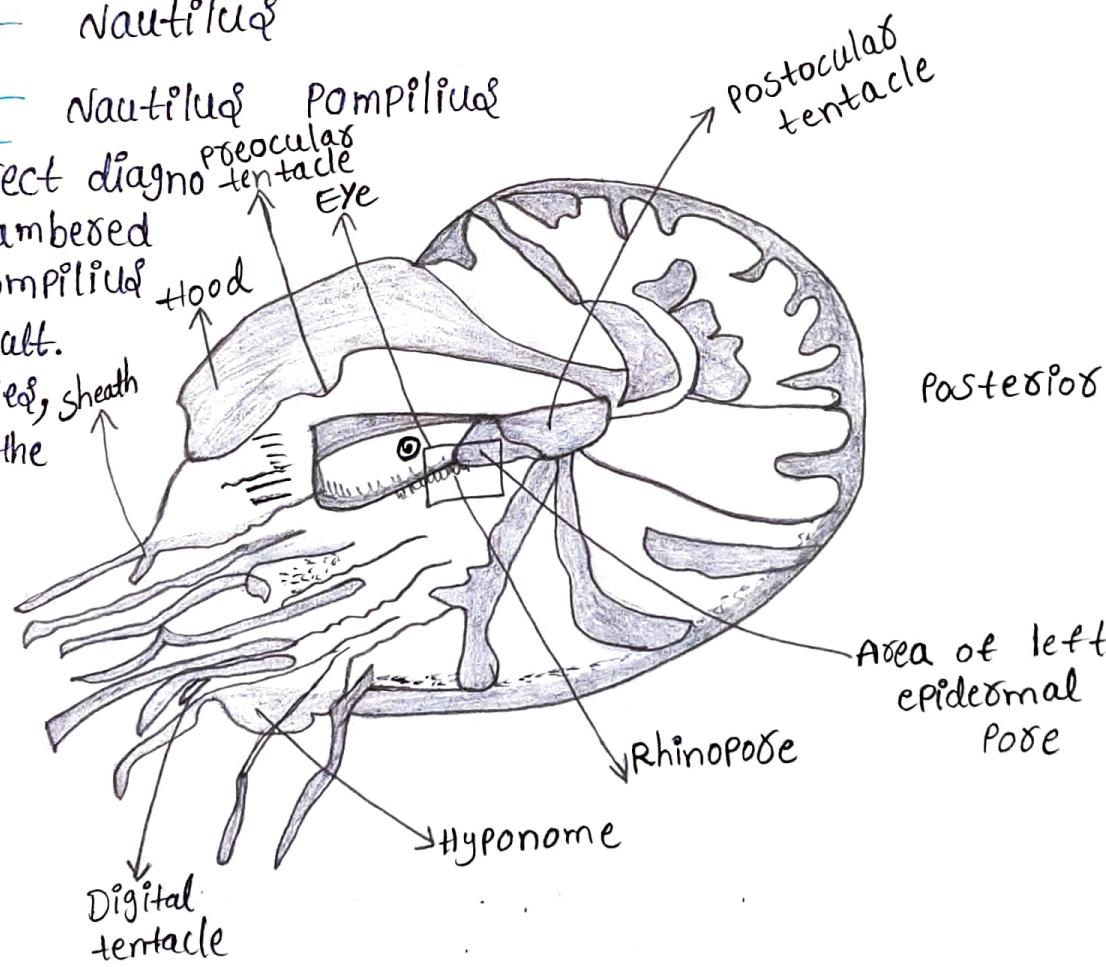
Genus: Nautilus

Species: Nautilus pompilius

⇒ The correct diagnosis in chambered  
Nautilus pompilius are difficult.

⇒ The tentacles, sheath  
ventral to the hood.

Anterior



Nautilus pompilius

⑨ Phylum - Echinodermata :-

① Cnidoids classification :-

Kingdom :- Animalia

Phylum :- Echinodermata

Class :- Cnidaria

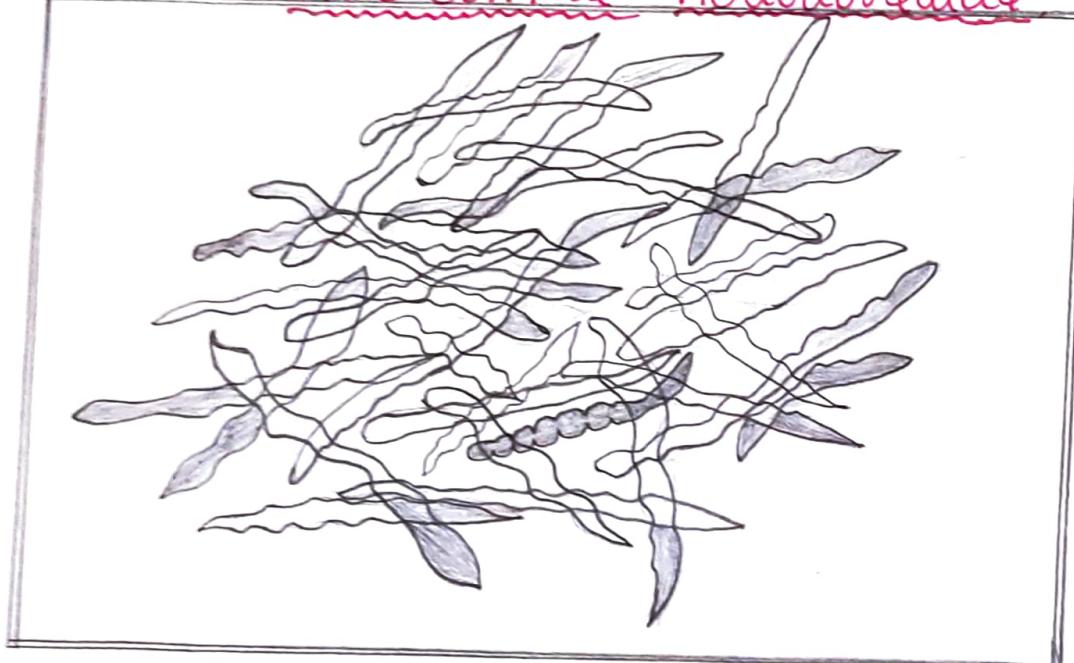
Order :- Echinoderm

Family :- Actinocerinitidae

Genus :- Aacocinuq

Species :- Aacocinuq nododorsatus

Aacocinuq nododorsatus



⇒ Aacocinuq is an cowpox is an infectious disease caused by the cowpox virus.

⇒ It is a bacterial disease. caused by Actinomyces.

⇒ Ring worm is a skin infection by mold like fungi.

and naiki.

## ⑨ Phylum - Echinodermata

### ② sea cucumbers classification

Kingdom : Animalia

Phylum : Echinodermata

Class : Holothuroidea

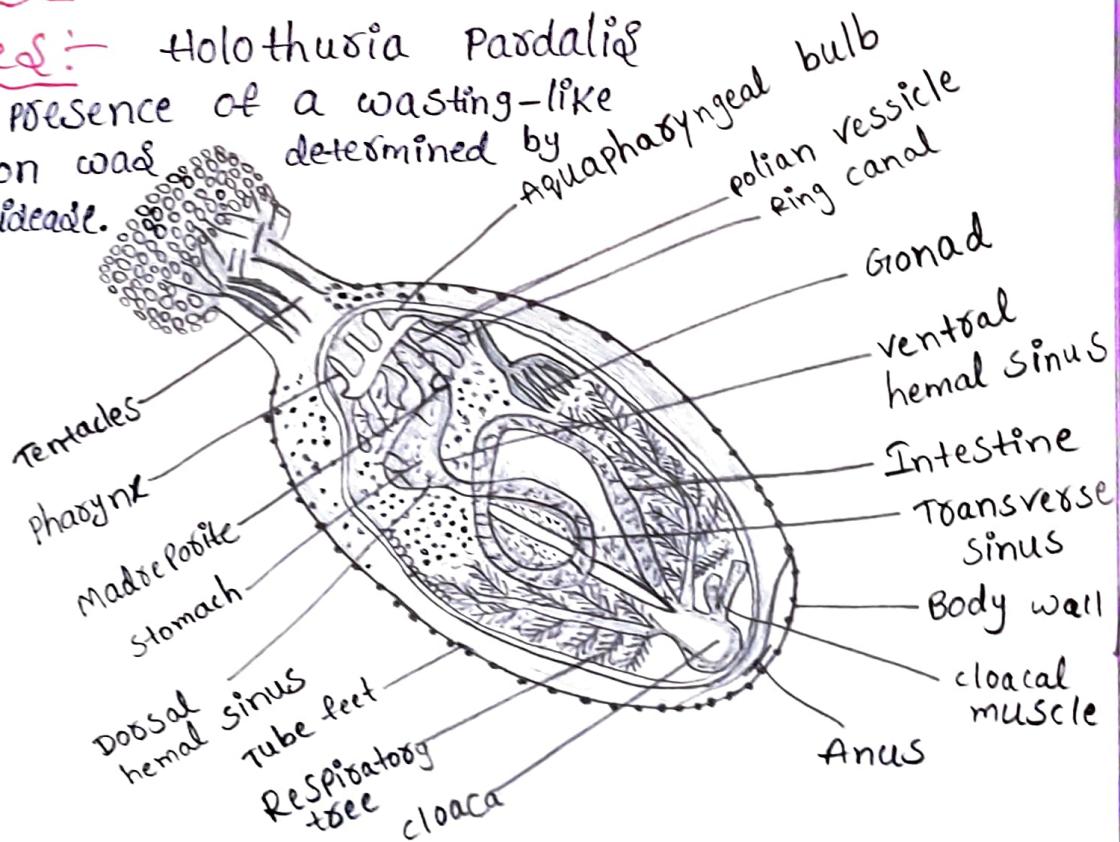
Order : Aspidochirota

Family : Holothuriidae

Genus : Holothuria

Species : *Holothuria Pardalis*

→ The presence of a wasting-like condition was determined by gross disease.



Holothuria Pardalis