**VARDHAMAN MAHAVEER OPEN UNIVERSITY, KOTA**

**Rawatbhata Road, Kota (Rajasthan) - 324021**

**Bachelor Degree Programme**

**B.Sc. Zoology (Part-I)**



**Internal Assignments**

**ZO-01 to ZO-03**

**Session: 2014 - 2015**

**Phone: - 0744-2470615, Fax: - 0744 - 2472525**

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**Vardhaman Mahaveer Open University, Kota**

**Bachelor Degree Programme**

**B.Sc. Zoology (Part-I)**

**Internal Assignments for ZO-01 to ZO-03**

Dear Students,

 The following internal assignments of various papers of B.Sc. Zoology (Part-I) are being send to you:

**Programme Code** **Name of the Course/paper**

**ZO-01** Animal Diversity and Evolution

**ZO-02** Cell Biology and Genetics

**ZO-03** Gamete and Developments Biology

It is must to complete the internal assignments and after completion submit the assignments to the Director of your concerned Regional Centre either through your own presence or through registered speed post. Each internal assignment is of 15 marks, the marks obtains in internal assignment will be added with the marks obtained in term end examination. It is mandatory to complete the assignments in your own hand writing. There is no revaluation system for the internal assignment except technical mistakes. After submission of the assignment you will not be given the chance to improve the same or resubmit the same so try to give the best answer in your 1st attempt. Enclose the internal assignments of each paper/course in separate files and provide the below information on the first page of each file:

**Vardhaman Mahaveer Open University, Kota**

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**B.Sc. Zoology (Part-I)**

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Scholar No.

Name of Student --------------------------------------------------------------- -Internal Assignment No. ----------------------------------------------

Father’s Name ---------------------------------------------------------------- Programme Code ----------------------------------------------------------

Address ---------------------------------------------------------------- Name of the Course/Paper ------------------------------------------

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Name of Study Centre --------------------------------------------------------------- Assignment Submission Date---------------------------------------

Name of Regional Centre----------------------------------------------------------

**Note:**

1. Use only A4 Size Paper for your response sheets.

2. Last date of Submission: Before one month from the date of commencement of Term-End examinations.

**Internal Assignment**

**B.Sc. (Part – I) Zoology (izk.kh foKku)**

**ZO-01**

**Animal Diversity and Evolution**

**izk.kh fofo/krk rFkk mn~fodkl**

**Max Marks: 15**

**Note : The internal Assignment has been divided into three section A, B, and C, write answer as per the given instruction.**

**;g iz'u i= 'A', 'B' vkSj 'C' rhu [k.Mksa esa foHkkftr gSA izR;sd [k.M ds funsZ'kkuqlkj iz'uksa dk mÙkj nhft,A**

**Section – A**

**(Very Short Answer Type Questions)**

**vfr y?kq mÙkj okys iz'u ¼vfuok;Z½**

**Note: Answer all questions. As per the nature of the question delimit answer in one word, one sentence or maximum up to 30 words. Each question carries ½ marks.**

**नोट: सभी प्रश्नों का उत्तर दीजिए| आप अपने उत्तर को प्रश्नानुसार एक शब्द , एक वाक्य या अधिकतम 30 शब्दों में परिसीमित कीजिये| प्रत्येक प्रश्न ½ अंक का है| 6x1/2=3**

1. India exist in which Zoogeographical region ?

**Hkkjr fdl izkf.k&HkkSxkSfyd {ks= esa vkrk gS \**

1. Which one is the National Animal of India ?

**Hkkjr dk jk"Vªh; i'kq D;k gS \**

1. Give the examples of any two Endoparasites?

**fdUgh nks vUr% ijthoh;ksa ds mnkgj.k nhft, \**

1. Write the name of two animals got extinct from India?

**Hkkjr esa foyqIr fdUgh nks tUrqvksa ds uke fy[kks \**

1. What was the name of one land mass before continental drift ?

**egk}ih; foLFkkiu ls iwoZ i`Foh ds lEiw.kZ ,d [k.M dk D;k uke Fkk \**

1. Who proposed Five Kingdom scheme of the classification?

**iap txr ladYiuk fdlus nh Fkh \**

**Section – B**

**Note: Answer any 4 questions. Each answer should not exceed 100 words. Each question carries 1.5 marks.**

**नोट: निम्नलिखित में से किन्हीं 4 प्रश्नों के उत्तर दीजिए| आप अपने उत्तर को अधिकतम 100 शब्दों में परिसीमित कीजिये| प्रत्येक प्रश्न 1.5 अंकों का है| 4x1.5=6**

1. Differentiate between Protostomia and Deutrostomia ?

**izksVksLVksfe;k ,oa M;wfVjksLVksfe;k esa vUrj djks \**

1. Write general character of phylum Hemichahordia ?

**la?k gseh&dkWMsZVk ds lkekU; y{.k fy[kks \**

1. Write Habit Habitat and External features of Camel?

**Å¡V dk LoHko]lklLFku ,oa ckg; y{.k fy[kks \**

1. What is Isolation ?

**ikFkZD; D;k gS \**

1. What is role of Symmetry in Classification?

**lefefr dk oxhZdj.k esa D;k vk/kkj gS \**

**Section – C**

**Note: Answer any two questions. You have to delimit each answer maximum up to 400 words. Each question carries 3 marks.**

**नोट : निम्नलिखित में से किन्हीं** 02 **प्रश्नों** **का उत्तर दीजिए|आपको अपने प्रत्येक उत्तर को अधिकतम 400 शब्दों में परिसीमित करना है| प्रत्येक प्रश्न 3 अंकों का है| 2x3=6**

1. Write an assay on Adaptation?

**vuqdwyu ij ,d ys[k fy[kks \**

1. Write a note on five kingdom scheme of classification?

**iap txr oxhZdj.k ladYiuk ij ,d ys[k fy[kks \**

1. Explain Darwinism ?

**MkfoZuokn dks le>kb;s \**

1. Explain general features and classification of Arthropods?

**la/k vkFkzksiksM+k ds lkekU; y{.k ,oa oxhZdj.k dks le>kb;sa \**

**Internal Assignment**

**B.Sc. (Part – I) Zoology (izk.kh foKku)**

**ZO-02**

**Cell Biology and Genetics**

**dksf'kdk foKku ,oa vkuqokaf'kdh**

**Max Marks: 15**

**Note : The internal Assignment has been divided into three section A, B, and C, write answer as per the given instruction.**

**;g iz'u i= 'A', 'B' vkSj 'C' rhu [k.Mksa esa foHkkftr gSA izR;sd [k.M ds funsZ'kkuqlkj iz'uksa dk mÙkj nhft,A**

**Section – A**

**(Very Short Answer Type Questions)**

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**नोट: सभी प्रश्नों का उत्तर दीजिए| आप अपने उत्तर को प्रश्नानुसार एक शब्द , एक वाक्य या अधिकतम 30 शब्दों में परिसीमित कीजिये| प्रत्येक प्रश्न ½ अंक का है| 6x1/2=3**

1. Who discovered Nucleic Acids?

**U;qfDyd vEyksa dh [kkst fdlus dh Fkh \**

1. Write two examples of triplet codons?

**f=xq.kh ladsr ds dksbZ nks mnkgj.k fy[kks \**

1. Write three phases of cell cycle?

**dksf'kdk pØ dh rhu izkoLFkk, fy[kksa \**

1. What name is given to the units of Golgi Bodies in plants?

**ikni dksf'kdkvska esa xkWyhdk; dh bdkbZ;k¡ D;k dgykrh gS \**

1. What are Spherosomes ?

**LQhjkslkse D;k gS \**

1. What are components of Nucleic Acids?

**U;wfDyd vEy ds izeq[k ?kVd D;k gS \**

**Section – B**

**Note: Answer any 4 questions. Each answer should not exceed 100 words. Each question carries 1.5 marks.**

**नोट: निम्नलिखित में से किन्हीं 4 प्रश्नों के उत्तर दीजिए| आप अपने उत्तर को अधिकतम 100 शब्दों में परिसीमित कीजिये| प्रत्येक प्रश्न 1.5 अंकों का है| 4x1.5=6**

1. Write fundamental points of cell theory?

**dksf'kdk fl)kUr ds ewyHkwr fcUnqvksa dks fy[kksa \**

1. Differentiate between smooth and Rough Endoplassmic Reticulum?

**fpduh ,oa [kqjnjh vUr% iznO;h tkfydk esa Hksn djks \**

1. What is significance of Mitosis ?

**lq=h; foHkktu dk egRo D;k gS \**

1. What are the functions of chromosomes?

**xq.klw=ksa ds D;k dk;Z gS \**

1. What is cell membrane transport?

**dksf'kdk dyk vfHkxeu D;k gS \**

**Section – C**

**Note: Answer any two questions. You have to delimit each answer maximum up to 400 words. Each question carries 3 marks.**

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1. Write an Essay on structure of DNA and also explain DNA replication ?

**Mh ,u , dh ljapuk rFk iqujko`fr ij ,d ys[k fy[kksa \**

1. Write an Essay on functeons of Mitochondria and generation of ATP in Mitochondria ?

**ekbVksdkWfUMª;k ds dk;Z rFk blesa , Vh ih ds mRiknu ij ,d ys[k fy[kks \**

1. Write a note on Ribosomes ?

**jkbckslkse ij fVIi.kh fy[kks \**

1. Explain Chromosomal Organization ?

**xq.klq=h; laxBu dks le>kb;sa \**

**Internal Assignment**

**B.Sc. (Part – I) Zoology (izk.kh foKku)**

**ZO-03**

**Gamete and Developments Biology**

**;qXed ,oa ifjo/kZu tSfodh**

**Max Marks: 15**

**Note : The internal Assignment has been divided into three section A, B, and C, write answer as per the given instruction.**

**;g iz'u i= 'A', 'B' vkSj 'C' rhu [k.Mksa esa foHkkftr gSA izR;sd [k.M ds funsZ'kkuqlkj iz'uksa dk mÙkj nhft,A**

**Section – A**

**(Very Short Answer Type Questions)**

**vfr y?kq mÙkj okys iz'u ¼vfuok;Z½**

**Note: Answer all questions. As per the nature of the question delimit answer in one word, one sentence or maximum up to 30 words. Each question carries ½ marks.**

**नोट: सभी प्रश्नों का उत्तर दीजिए| आप अपने उत्तर को प्रश्नानुसार एक शब्द , एक वाक्य या अधिकतम 30 शब्दों में परिसीमित कीजिये| प्रत्येक प्रश्न ½ अंक का है| 6x1/2=3**

1. Write any two names of sciantist as "Ovist"?

**vkWfoLV er dks ekuus okys nks oSKkfudksa ds uke fy[kks \**

1. Who proposed the "Theory of Recapitulation" ?

**iqujkoZru dk fl)kUr fdlus izfrikfnr fd;k \**

1. Who scientist was awarded Nobel Prize in 1935 for Organiser Theory or "Inducer"?

**laxBd fl)kUr ;k izsjd ij dk;Z gsrq 1935 esa fdl oSKkfud dks ukscsy iqjLdkj fn;k \**

1. Write any two examples of Incomplete Parthenogenesis ?

**viw.kZ vfu"ksdtuu ds nks mnkgj.k fy[kks \**

1. Give an example of Maridional plane cleavage ?

**js[kkaf'kr ry fonyu dk mnkgj.k nks \**

1. What type of plane is present in third cleavage of frog?

**es<+d dk r`rh; fonyu dk foHktu ry dSlk gksrk gS \**

**Section – B**

**Note: Answer any 4 questions. Each answer should not exceed 100 words. Each question carries 1.5 marks.**

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1. What is Bayer's law ?

**cs;j dk fl)kUr D;k gS \**

1. Draw well labeled diagram of Sperm ?

**'kqØk.kq dk ukekafdr fp= crkvksa \**

1. What is significance of Parthenogenesis ?

**vfu"ksdtuu dk D;k egRo gS \**

1. What are functions of Placenta?

**IySlsUVk ds D;k dk;Z gS \**

1. Draw well labelled diagram of 33 hrs. Incubation period of Chick embryo.

**pwts ds 33 ?k.Vs ds m"ek;u dky dh Hkw.khZ; voLFkk dk fp= cukvksa \**

**Section – C**

**Note: Answer any two questions. You have to delimit each answer maximum up to 400 words. Each question carries 3 marks.**

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1. Write an Essay on "Oogenesis?

**v.Mtuu ij ,d ys[k fy[kks \**

1. Explain Morphogentic Movements ?

**ljapuk fodkl xfr;ksa dks le>kb;sa \**

1. Explain Embrgonic Induction ?

**Hkzq.kh; izsj.k dks le>kb;sa \**

1. Write a note on Regeneration ?

**iqu:n~Hkou ij fVIi.kh fy[kksa \**