| Name | | | | | | | Index ! | No | | | |
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| 2404/305 ANIMAL AND PHARMACOL ENTOMOLOG Oct./Nov. 2014 Time: 3 hours | OGY, T Y AND | DIP | A NAT | TON A IN | AL EXAPP | LIED | Candid Date _ ATIONS BIOLO MACOLO PATHOL | COUN GY GY, TO | ICIL | | |
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| INSTRUCTION | NS TO | ANDID | ATES | | | | | | | | |
| Write your name Sign and write it You should have This paper const Answer ALL que Each question it Maximum marks Candidates should For Examiner's Section A | he date of scientificists of TV estions in section in s | of the examination of the examin | minatio tor(Not ons; A and A and s 4 mar a quest | n in in in pro- and E THR ks wi | the spo gramm EE fro hile ea re indi | ices prov able) fo m sectio ch quest cated. | rided abover this exact n B in the | ninatio | s provid | | |
| Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | TOTAL |
| Candidate's Score | | | | | | | | | | | |
| Section B | | | | _ | | | | | | - | |
| Question Candidate's | 11 | 12 | 13 | | 14 | 15 | SCORE | | GRA TOT | 0.00 | |

This paper consists of 16 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A (40 marks)

Answer ALL the questions in this section in the spaces provided.

| (a) | Define the following terms: | |
|-----|--|-----------|
| | (i) Apical dorminance | (1 mark) |
| | (ii) Abscission | (1 mark) |
| (b) | Distinguish between tropism and taxis movements. | (2 marks |
| | COL. | |
| | Shot. | |
| (a) | Define the term Euthanasia. | (1 mark) |
| (b) | Describe cervical dislocation in mice. | (3 marks) |
| | | |
| | | |

| 3. | (a) | Distinguish between first order and second order kinetics. | (2 marks) |
|----|-----|--|-----------|
| | | | |
| | (b) | Draw a graph to show First Order Kinetics. | (2 marks) |
| | | | |
| 4. | (a) | Name four endocrine centres in insects | (2 marks) |
| | (b) | State the secretions of each centre in 4(a) above. | (2 marks) |
| | | | |
| | | | |

| | Distinguish between Gnotobiotes and specific pathogen free (SPF) animals. | (2 marks) |
|---------|---|-----------------|
| | | |
| | | |
| (b) | Give any two reasons for receiving animals in a quarantine area. | (2 marks |
| | | |
| List to | wo advantages and two disadvantages of using wood in the construction of anims. | mal (4 marks |
| | e as in | |
| State . | any four expressions of non-lethal foetal toxicity. | (4 marks |
| | | |

| | (b) | Give any six purposes of plant breeding programme in horticulture | (3 marks) |
|----|-------|--|---|
| | | | |
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| | | | |
| | Draw | a diagram to illustrate the relationship between the digestive tract and malphi e of an orthoptera. | ghian (4 marks) |
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| | | Wet. | |
| 0. | Lista | my four factors that influence rearbsorption of a drug. | (4 marks) |
| | | | |
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| | TA. | | |

SECTION B (60 marks)

Answer any THREE questions from this section in the spaces provided after question 15. 11. (a) Explain the effects of auxins in plants. (8 marks) (b) Explain the role of plant hormones in seed. (12 marks) Explain the following with respect to rabbit husbandry: 12; Cleanliness of cages (a) (4 marks) (b) Provision of food (16 marks) 13. Discuss the toxicity of the following: (a) Clostridium botulinum (6 mark) (b) Viper snake venom (14 marks) Describe the basic components of the principles of Integrated Pest Management (IPM). 14 (20 marks) 15. Discuss the mechanisms of drug action. (20 marks)