(For all sessions) To be filled in by the candidate Roll No. RWP-21 Biology (Essay Type) Marks: 68 Section-I Time: 2:40 Hours 2x8=16 2. Write short answers of any eight parts from the following. ii. What is panting? i. What is peritonial dialysis? iv. What is Ecdysis? iii. Differentiate between Poikilotherms and Homeotherms. v. Differentiate between Hyaline cartilage and Elastic cartilage. vi. What is Sciatica? viii. What are fraternal twins? vii. What is diploid parthenogenesis? x. Write a note on profundal zone. ix. Write the plants in temperate deciduous Forests. xii. What is reforestation? xi. Write a note on Tidal power. 2x8 = 163. Write short answers of any eight parts from the following. i. Define gene linkage. How does gene linkage affect variations among offsprings? ii. How are transgenic bacteria used to improve plant health? Give two examples. iii. What are different types of hormones on the basis of chemical nature? iv. Define food web. How do pathways of food web help to maintain stability of ecosystem? vi. How plant growth is affected by ethene? v. Enlist antibodies found in A,AB,B and O blood groups. vii. Differentiate between Phenotype and genotype with examples. viii. Write the structural components of limbic system. x. Define habitat and niche. ix. Define DNA finger printing. Write its significance. xì. What is the significance of Transgenic Corn and Soybean? xii. Define mutualism. Give two examples. 2x6=124. Write short answers of any six parts from the following. i. What are Okazaki fragments? Give their lengths. iii. Define Transcription and Anticodon. ii. What is primitive streak? How is it formed? v. State Regeneration and dedifferentiation. iv. What is meant by Nucleosome and gene? viii. Characterize pachytene in Meiosis I. vi. Define Interphase.Name its subphases. ix. Define genetic drift and hydrothermal vents. vii. What are vestigial organs? Give examples as well. 8x3=24 Section - II NOTE: Answer any three questions from the following. 5. (a) How does osmoregulation take place in terrestrial animals? (b) What are different components of ecosystem? 6. (a) Discuss sliding filament model of Muscle contraction. (b) Describe the process of transcription. 7. (a) Explain Feedback mechanism. (b) Write a note on importance of forests. 8. (a) Describe the types of parthenogenesis in animals. (b) What is dominance? Explain complete and incomplete dominance with examples. 9. (a) Describe in your own words the Growth Correlations in plants.

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