MAL DIVERSITY EXAMINA TON 2004/2005 SESSION FEB2006 shower all questions strictly within the spaces provided on answer sheet, Figure 1 represents (A) an insect (D) a crustacean (C) a mite (D) a molluse and L The name is (A) Daphnia (B) Cyclops (C) Balanus (D) Lepas The structure labelled 3 is (A) antenna II (B) antenna I (C) Maxilla (D) Maxilliped The excretory organ in the crustacen is the Agreen gland (B) Mulpighian tubule (C)kidney (D)Nephridium' Figure 5. The structure tabelled 5 in Figure 2 is (A) End sac (B) white medullary tube (D)green cortex. The pygidium in the Trilobitomorpha represents (A) fused thoracic segment (P) fused abdominal segments; (C) Fused segments of the head (D) an armour covering head to abdomen 7. The number of abdominal segar ents in the Trilobitomorphs is (A)6 (273 (C)10 7点(D)2-29 8. The sequence of segments of an insect leg is (A)coxa, trochanters, femur, tibia, Figure 2 tarsus (B)coxa, femur, trochanters, tibia, tarsus (C)femur, coxa, trochanter, tibia, tarsus (D) semui, coxa, trochanter, tarsus, tibia 9.1 Reproduction in the insect is complete metan rphosis when the stages are (A)egg to nymph to adult (B)egg to larva to adult (C)egg to larva to pura (D)egg to larva to pupa to adult (D) he appendage shown in Figure 3 is (A) jointed and biramous (B) jointed and uniramous (C)unjointed and uniramous (D)unjointed and hiramous. The Chelicerata have a body divided into (A) Head, thorax, abdomen (D) prosoma and Popisthosoma (C)head and trunk (D)head alid telson The Chelicerata use the chelicerae (V) as laws (B) as walking legal (C) for sensory (D) for excretory function Buthus hottentia hottentala is a (K)scorpion (B)spider (C)mite (D)tick The which Chatigogata does the pedical separate the presents from opisthesoma? MACATINA (B) Arancae (C) Scorpionidea (Mynone of the above (C)respiration (D)excretion 16 Sarcoptes scabies, an acarina attacks (A)plants of (B) word (O) stored crops Builded builter this (D)man The Figure 4 represents what class of the Echinodenmeta? (B)Echinoidea (C)Holothuroidea (D)Crinoidea (C) 18. The Hemichordata show affinity with the Chordata because of the presence of (A) visceral cleft (B) notochord (C) dorsal, h. llow, nerve chord (D) all of the above reasons 19 Echinoderms are classified as deuterostomes breause: (A)they have 2 openings to the body (B) they have two openings, mouth and anus (E) the mouth does not Figure 4 gevelop from the blastopore (D)the mouth develops from the blastopore 20. The pedicellariae of the echinoderms are used for (A) defence (B) reproduction (C)excretion (D)respiration 21. The ossicle in the intera-radius position is (A)pedicellaria (B)spine (E)Madreporite (D)skeleton 22. Which of the following is not a part of the coelom? (A)periviscera cavity (B)perihaemal cavity (C)water vascular system (D)none of the above In which classe of Echinodermata does, the look like a sea lily? (MCrinoidea (B) Asteroidea (C) Echinoidea (D) Holothuroidea 24. The direction of each arm in the Echinogerman is the radius (B)interradius (C)dorsal (D)Ventral Which is not true of cellularization in animals !! (Admaintenance of a suitable surface area/volume ratio (B)maintenance of cytoplasm/nucleus ratio (C)for effective Figure Buseous exchange (B) for nervous coordination in Which is not a major locomotory organelle in the protozoans? (A)pseudopodia (B)cilia (C)flagella

Dimuscle Sendopodia occur in: (A) Englena (Dicukocyles (B)Paramecium (D)Plasmodium The locomotory organelle of Parameeium in (A) l'igellum (B) pseudopodium (D)cilia (D)muscle 20. The type of pseudopodium in Rigure 15, is called: (A) filopodium. (19tobopodium, (C)reticulopodium (D)anopodium. 30. F agellum is the major locomotory arganelle in the phylum (A) Ciliophora. (E) Apicomplexay (C) Labyrinthomor ha (D) Sarcomastigophora; Volve-61.) Cilium differs from flagellum in having (A) longer langth (B) thinner structure Wishorter length (D)Basal body M. The phylum Labyrinthoniorpha was ca ved but of the former subphylum: (A) Sporozoa (D) Sarcodina (C)Mastigophora (D)Opalinata 了一方有缺少的。 38. Which is not true of vital role of diffusion? (A)to maintain suitable pH . (B)to obtain food supplies (2) to exercte toxic substances (D)to. Stain water supply 34. Which of the following is not needed for entry não or exit from the cell? (A) timesion (B) Enflocytosis' (C)osu. asis (D) listuo respiration: 35. Which of the following requires energy? \ (A diffusion (B)osmosis (2) endocytosis (D) facilitated diffusion. 36. Plasmodium belongs to the phylum (A)Labyrinthemorpha (B) Ascetespora (C)Microspora (b)Apicomplexa. 37. Surface area/volume ratio in animals de fermines the Mefficiency of gaseous exchange (B)growth (C)reproduction (D)exygen consumption 38. Multicellularity in animals is necessar, for effectivity (A)area/volume ratio Lead Bir tability (C) nuclear influence ( Toolledivision ) in remove with the Comment of the Prigure 7 39. A cell with many model is described in (X)unicollular (B)multicellular Decembeylie . (D)acellular 40. The tird whose detrivorous habits incilitate clearing he environment of enreases is (A)Columba (B)Pseudogypus (C)Namida (D)Anser month of the Brief The names of the species represented in Figure 6 are (41); (42), (43), (44). A group of individual's of the same species that live together like the cases in Figure C is called a (45). Figure 7 represents (46). From Figure 7 name : Thichires (47), (48), (49), (50). One diseasecausing organism in man that has the strict to shown in Figure 7, is (51). The diseased organ shown in Figure 8 is called (52) log and esults from an infection by the species called (53) which belongs to the phylum (54). From Figure 9, name the species shown as (53), (56), (57), (58), (59), (60). In the darkest night, you are able to see the one numbered (50) because it is (61). Which of thon, is our friend around the kitchen and allatuded dusthins?(62). Compare und contrast the Chondrichthyes and Osteich hyes by the following table: character Figure 977774 Plushous Schle type (6-1) Operculum W (66) Position of mouth (67) Joyce runs 28 days menstrual cycle, Her menstruation in January 2006 stated on 15th Lionnewhousterness expected to be on (69) and her upx becommendations and and

## ANSWERS TO 2004/2005 BIO 104 Rain Semester Examination

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