Javi DIRECTOR OF HEALTH, MEDICAL SERVICES & MEDICAL EDUCATION كوكلار **GUJARAT STATE** 26TH LABORATORY & X-RAY TECHNICIANS TRAINING COURSE EXAMINATION PHYSIOLOGY 1. Figure to the right indicates marks of each question. Instructions: 2. Draw diagrams wherever necessary. **TOTAL MARKS: 50** Date: 13/08/2014 Time: 2 hours 15 Q. 1 (A) Answer any five of the following: 1. What are the uses of Neubauer's chamber? 2. What is the significance of differential leucocyte count (DLC)? 3. What are the functions of haemoglobin? 4. Why is ced ar wood oil used with oil immersion objective lens? 5. What presautions should be taken to prevent infection during venepuncture and skin pricking? 6. How will you clean a RBC pipette when blood has clotted in the stem? 7. Draw the diagram of normal electrocardiogram (ECG) showing the various waves & segments. 05 (B) Match the following: B 1. Sarcomere \prec a. Cerebral cortex 🞐 2. Spirometer 🥆 b. Muscle c. Gastro intestinal tract (GIT) A 3. Memory d. Vital capacity_ E 4. Oxytocin C e. Pituitary gland C 5. Peristalsis 🍦 🖗 Q. 2 (A) Write short notes on any three: 1. Functions of kidney 15 2. Functions of liver - 124 V B Functions of testis - 223 4. Cardiac cycle 5. Functions of respiratory system -15405 (B) Write true or false and correct it if it is not true 1. Heart is made up of smooth muscle. 2. Gastric juice is highly acidic in nature. 3. Ovulation occurs around the 14th day of normal menstrual cycle. 4. Bleeding time is prolonged but clotting remains normal in hemophilia. 5. Mitochondria are the power house of cell. 11 the blanks -1. Plasma proteins are <u>Albunin</u> $& -\beta - Y - Globolin$ Q. 3 Fill in the blanks g cell bladde -liver -2. Bile is secreted by ______ & stored in 4007 3. In cross matching <u>doner</u> RBCs are mixed with <u>receptend</u> 4. Each respiratory act consists of <u>Lnspigation</u> & <u>Expigation</u>. serum. 5. The normal average heart rate at rest is about ______ / minute. 6. Adrenal gland consist of outer <u>Coolen</u> & inner <u>medrul la</u> ___ml/min. 7. Normal glomerular filtration rate is ______ 8. Hormones secreted by ovary are Oestrogen & Progestero ve rods are receptors of eye. & 10. Normal systolic blood pressure is _____ mm of Hg & diastolic blood pressure is _____ mm of Hg. 110-140 Nonvo feguorfes, Neutoreputter, Easime -60-80 0 wo wind duy