Question FBQ1 : Dissection of animals is done in \_\_\_  
Answer: dissection tray  
  
Question FBQ2 : The a ring of nail polish or gum is place round the edges of cover-glass of a slide to reduce \_\_\_ from the edges of the cover-glass  
Answer: evaporative losses  
  
Question FBQ3 : \_\_\_ methods must exhibit observation, interpretation and prediction.  
Answer: Scientific  
  
Question FBQ4 : The simplest light microscope is \_\_\_  
Answer: magnifying lens  
  
Question FBQ5 : Photometric measurements may not accurately indicate the perceived brightness of sources of dim lighting conditions because photometry is based on the eye's \_\_\_ response.  
Answer: Photopic  
  
Question FBQ6 : \_\_\_ is the science of the measurement of light in terms of its perceived brightness to human eye.  
Answer: Photometry  
  
Question FBQ7 : \_\_\_ is the ratio of luminous flux to radiant flux.  
Answer: Luminous efficacy  
  
Question FBQ8 : As a general rule, rats, frogs and pigeons are dissected immediately after \_\_\_.  
Answer: Anaesthesia  
  
Question FBQ9 : \_\_\_ removes all traces of alcohol and allows the mountant to infiltrate the tissue.  
Answer: Clearing  
  
Question FBQ10 : The main purpose of \_\_\_ is to increase optical contrast between different parts of the specimen by giving them different colours and colour density.  
Answer: Staining  
  
Question FBQ11 : Slide may be stored flat in a card tray or upright in a slotted box or cabinet drawer once the mountant is \_\_\_.  
Answer: Hard  
  
Question FBQ12 : Special thermostatically controlled \_\_\_ or an incubator may be used to dry up prepared slides.  
Answer: warming plate  
  
Question FBQ13 : \_\_\_ is used for light emitted from a surface.  
Answer: Luminous emittance  
  
Question FBQ14 : Conductometry is used to measure the \_\_\_ concentration in a solution   
Answer: Ion  
  
Question FBQ15 : \_\_\_ measures the strength of the current between two electrodes in a solution containing ions.  
Answer: Conductometry  
  
Question FBQ16 : \_\_\_ is amount of heat absorbed or released by a body/mass of substance x change in temperature (J/KgoC)  
Answer: Specific heat capacity  
  
Question FBQ17 : The capacity of a material to store heat depends on its mass, the arrangement of the atoms or molecules and the bonding forces that hold the atoms or molecules together.  
Answer: Capacity  
  
Question FBQ18 : In order to separate skin from underlying tissues during dissection, scrape the inside layer of the skin gently with a \_\_\_ by cutting through subcutaneous tissue.  
Answer: Scalpel  
  
Question FBQ19 : \_\_\_ microscopy is best for viewing stained specimens.  
Answer: Dark field  
  
Question FBQ20 : \_\_\_ is the amount of heat absorbed or released/mass of substance (J/Kg)  
Answer: Specific latent heat  
  
Question FBQ21 : The main purpose of staining is to increase \_\_\_\_\_ between different parts of the specimen by giving them different colours and colour density.  
Answer: optical contrast  
  
Question FBQ22 : \_\_\_ microscopy is best for viewing specimens in liquid sample.   
Answer: Bright field  
  
Question FBQ23 : \_\_\_ means to cut open an organism in order to ascertain the structure of its parts, define their boundaries and display clearly their mutual relations.  
Answer: Dissection  
  
Question FBQ24 : \_\_\_ can be used to analyse samples taken from athletes to check for the presence of drugs, to test water samples for the presence of pollutants and in forensic work for the separation of dyes from fibres  
Answer: Chromatography  
  
Question FBQ25 : A \_\_\_ is an instrument for measuring complex resistances using alternating voltages.  
Answer: Conductometer  
  
Question FBQ26 : \_\_\_ of an organ is done by writing the name of the organ on a small piece of paper through which a needle is passed on one end; this is then inserted in a dissecting tray close to the organ.  
Answer: Flag labelling  
  
Question FBQ27 : To observe stained smears of mixed bacteria, \_\_\_\_\_\_ microscopy is employed.  
Answer: Oil emersion  
  
Question FBQ28 : A frog is immobilize for dissection by \_\_\_.  
Answer: Pithing  
  
Question FBQ29 : Chloroform and ether are given to animals as \_\_\_ agent before dissecting.  
Answer: Anaesthesing  
  
Question FBQ30 : The unit of measurement of radiant flux is \_\_\_\_\_\_\_.  
Answer: Watt  
  
Question FBQ31 : During dissection, invertebrates are better opened up from \_\_\_\_\_\_\_\_\_\_ side.  
Answer: Dorsal  
  
Question FBQ32 : The sledge microtome could weigh a sample as much as \_\_\_\_\_\_\_\_\_\_\_\_  
Answer: 50kg  
  
Question FBQ33 : In the making of a permanent stained preparation, complete dehydration ensures complete\_\_\_\_\_\_\_\_\_\_\_ of tissues with preservation and prevents bacterial decay of specimen.  
Answer: Infiltration  
  
Question FBQ34 : When dissecting, pick the skin of a big animal up with a pair of \_\_\_\_\_\_\_\_\_\_.  
Answer: Forceps  
  
Question FBQ35 : A rotary microtome is best for cutting sections of\_\_\_\_\_\_ microns.  
Answer: 5  
  
Question MCQ1 : In hand cut sectioning, the specimen is separated from the support after sectioning  
Answer: by floatation in water or alcohol  
  
Question MCQ2 : When your microscope is not in use what should you do?  
Answer: Always cover it with a dust jacket  
  
Question MCQ3 : The quality of a research paper will determine its  
Answer: acceptability  
  
Question MCQ4 : Why are microtomes employed in sectioning?  
Answer: Tissues to be sectioned are delicate and not firm enough to be held by the hand  
  
Question MCQ5 : The a ring of nail polish or gum is place round the edges of cover-glass of a slide to  
Answer: reduce evaporative losses from the edges of the cover-glass  
  
Question MCQ6 : The following are preservatives except  
Answer: Clove oil  
  
Question MCQ7 : Two types of electron microscope are  
Answer: scanning electron microscope and transmission electron microscope  
  
Question MCQ8 : Photometric measurements may not accurately indicate the perceived brightness of sources of dim lighting conditions because  
Answer: photometry is based on the eye's photopic response  
  
Question MCQ9 : The following are types of microtomes except  
Answer: caking  
  
Question MCQ10 : A paraffin block is being cut with a blunt double-concave microtome knife but could not be cut through. What could be the possible reason for this failure to cut?  
Answer: a blunt microtome knife would not cut a section  
  
Question MCQ11 : What does the diaphragm knob on the microscope do?  
Answer: It controls the disc directly above the condenser lens and may be used to vary the amount of light reaching the slide from below.  
  
Question MCQ12 : In the making of a permanent stained preparation, complete dehydration \_\_\_.  
Answer: ensures complete infiltration of tissues with preservation and prevents bacterial decay of specimen  
  
Question MCQ13 : Slide labels should essentially carry the following information  
Answer: name of the organism, part of the organism used and type of preparation  
  
Question MCQ14 : Why would a red source of light have a smaller luminous flux than green light source?  
Answer: The eyes respond much more strongly to green light than to red  
  
Question MCQ15 : The main activity in dissection is  
Answer: To remove connective tissue, which binds the several parts together  
  
Question MCQ16 : Scientific investigation involves the following except  
Answer: application of results  
  
Question MCQ17 : The amount of heat required to raise the temperature of a substance by 1oC is proportional to its  
Answer: mass and the change in temperature  
  
Question MCQ18 : For temporary slide preparation, which of the following options is most accurate?  
Answer: When cover-glass is not used, the curvature of the drop of liquid in which the object is mounted and there is the danger of contaminating your microscope's objectives lenses  
  
Question MCQ19 : Which of the following statements is not correct?  
Answer: Conductometry is the separation of the two sample components based on their different distribution between two non-miscible phases.  
  
Question MCQ20 : The capacity of a material to store heat depends on the following except  
Answer: the shape of the material  
  
Question MCQ21 : When dissection involves cutting through tissues, especially blood vessels,  
Answer: wash and soak away blood with cotton wool or blotting paper  
  
Question MCQ22 : When material under examination is in a fixed state, it means that it is    
Answer: a specimen that has been killed with 70% alcohol or Bouin fluid and formalin  
  
Question MCQ23 : Two groups or kinds of microscopes are  
Answer: simple and compound microscope  
  
Question MCQ24 : Which of the following is not a type of chromatography?   
Answer: thick-layer chromatography  
  
Question MCQ25 :  The report of a scientific investigation should include  
Answer: a brief summary, introduction, materials and methods, results and discussion of the results  
  
Question MCQ26 : An important scientific methodology is    
Answer: repetition of scientific findings  
  
Question MCQ27 : If a slide is to be kept for long-term reference,    
Answer: it must be made as a permanent preparation  
  
Question MCQ28 : A good scientific paper should be  
Answer: original, focused, well written and contribute useful information to knowledge  
  
Question MCQ29 :  The following are required for dissection except  
Answer: dissection fork  
  
Question MCQ30 : It is usually better to do dissection  
Answer: after theoretical studies to enable you have an understanding of what you are to lookout for  
  
Question MCQ31 : Which of the following microscopes can take pictures of objects?  
Answer: digital microscope  
  
Question MCQ32 : A dissecting microscope combines  
Answer: two objective lenses and two eyepieces to view an object  
  
Question MCQ33 : If an animal bleeds profusely during dissection, what should you do?  
Answer: dip a piece of cotton wool in alcohol and place it on the affected organ's blood vessel  
  
Question MCQ34 : What is the purpose of sectioning a specimen in the laboratory?  
Answer: To get a thin section of tissue for microscopic viewing  
  
Question MCQ35 : Which of the following is not a component of high performance liquid chromatography?  
Answer: the solvent consumer