**THE MARKING SCHEME 441/1**

**PAPER 1**

**FORM 4 HOME SCIENCE THEORY TERM 1**

**SECTION A**

1. What is dietetics (1mk)
* A course which deals with study of food nutrients and their uses in diets for different individual body requirement.
1. State 3 ways in which a country with home scientist benefits (3mks)
* Home scientist provides knowledge on issues such as good nutrition to the community to keep its member healthy.
* Educate community on issues such as consumer to be able to handle resources adequately
* Fashion designers help create employment and sense of awareness on current fashion trends.
1. What safety measures should be considered when arranging furniture in the sitting room? (3mks)
* Leave space for traffic
* Arrange then an organized
* Avoid overcrowding them
1. What is mackintosh? (2mks)
* Water proof mat placed over the mattress on a baby cot when making it to prevent baby urine form reaching the mattress.
1. List the function of blankets on a bedding item (1mk)
* To keep warm in cold weather.
1. State qualities to look for when buying kitchen knife. (2mks)
* Versatile
* Stainless
* Handle firmly fixed
* Smooth handle
* sharp
1. Mention two good characteristic of enamel utensils (2mks)
* Are smooth therefore easily cleaned
* Are not affected by moderate temperature
* Are strong therefore last for long time when taken care of
1. List four water borne diseases (2mks)
* Cholera
* Typhoid
* Dysentery
* Bilharzia
1. State 3 personal practices that safeguard food against contamination (3mks)
* Washing hands with soap and hot water before handling food.
* Avoid licking finger when preparing food.
* Person handling food should be clean, wear protective clothing over hair and remove any ring and bangles before preparing food.
1. State three factors to consider when buying meat (3mks)
* Colour – the Colour of good quality meat is blood red. Dark brown or black meat should not be chosen.
* Tenderness – measure of toughness of meat should be considered in relation to the purpose for which the meat is meant for.
* Odour. Meat with an offensive odour should be avoided
1. Why is it wrong to shave toothbrushes (2mks)
* Can get communicable diseases like flue and AIDs
* Can contract gum diseases
1. State 2 disadvantages of flat drying clothes on the ground. (2mks)
* Clothes may be stepped on by animals and make them dirty
* Dust or soil may easily dirtfly clothes if ground is not protected or if the wind blows off the dust.
* Clothes take longer to dry since they are never blown about by wind like hanged ones which shed their moisture as they are swayed to and form
1. Giving reasons identify 3 fabrics which must be flat dried under the shade(3mks)
* Loose multi coloured cottons and linens to avoid the mixing of colours.
* Woolen fabric to prevent loss of shape
* Elasto- fobric to prevent stretching
1. State three functions of pressing cloth (3mks)
* To remove cresses
* To enhance the appearance
* To kill germs
1. List down the 14 components used in the making of laundry blue (2mks)
* Soda ash.
* Sodium sulphate
* Charcoal
* Sulphur
* Clay
1. What causes mildew stain (1mk)
* Caused by folding and storing damp clothes
1. Giving two methods of lengthening a skirt that has become too short (2mks)
* Adding a trill.
* Let down the hem.
* Put a false hem
1. You have polyester dress that clings to the body. Suggest two remedies for this problem (2mks)
* Wear dress with cotton petticoat
* Put fabric softener in last rinsing water
1. Explain why laundry blue is in minimal use today for laundry work. (1mk)
* Because most of the sapless detergent made these days have fluorescent whitener which have the same function as laundry blue.

**SECTION B (COMPULSORY) 20MKS**

1. Your mother has travelled and left you in charge of the house. Describe how you would launder her;
2. Silk scarf (8mks)
* Check whether the scarf needs mending and mend accordingly then shake off any loose dirt.
* Working on a well-ventilated place form naked flames pour an adequate amount of the dry cleaning solution in a small basin.
* Immerse the scarf in the solution and very quickly knead and squeeze until its clean.
* Squeeze out as much solution as possible
* Hang the scarf in an airy place to dry.
* Gently pour back the solution into the container as soon as the sediment settle at the bottom of the basin cover the container lightly and store it appropriately
* Press on the WS using a warm iron when cleaning solution has evaporated
1. Describe how you would clean a hurricane lamp she will use (12mks)
* Protect the work surface with newspaper
* Remove all movable parts
* Clean the glass in warm soapy water handling it vey carefully
* Rinse in cold water and leave to dry
* Clean the burner rinse and dry
* Clean the metal chimney inside and outside to remove all the soot
* Clean the vent holes with special brush to open them.
* Clean the rest of the lamp appropriately
* Dry the whole lamp and polish up
* Refill with oil
* Trim the wick evenly
* Reassemble all the parts

**SECTION C**

**Answer any two questions in this section.**

1. Oil paints are commonly used as wall finish give three advantages of oil paints. (3mks)
* Water repellent hence easily cleaned
* Surface is smooth therefore dust does not settle on it
* Oil paint is durable
1. Sufficient ventilation is important in a house. Give four paints in support of the above statement.(4mks)
* Prevent humidity
* Get rid of surplus heat form people and machinery
* Remove any odour
* Increase free circulation of air
1. Suggest five steps to take to ensure that shoes last long. (5mks)
* Polish to preserve
* Repair immediately when torn
* Store on shoe rack
* Dry in a cool place
* Wear with socks to absorb perspiration
1. Describe how to work a machine fell seam at the yoke of a poplin shirt (8mks)
* Place two pieces of material together edges matching
* Pin, tack on the fitting line
* Machine in the fitting line
* Trim one side to less than 0.5cm
* Trim the other side to 1.2cm
* Press open
* Fold over wider tuning to the shorter one and tack
* Machine close to the fold
* Remove tacking and press
1. Giving reasons in each state four basic rules in the use and care of refrigerator. (8mks)
* Do not keep hot food in the fridge as it lowers the temperature causing spillage of other food.
* Do not use sharp instrument to scrap of ice from the fridge- it scratches and causes marks on fridge
* Store food in polythene papers to prevent drying
* Do not overload – allow free circulation of air
* Place fridge in the coolest part of the kitchen to avoid heat interference

(State 1mk reason 1mk)

1. What causes shrunken pastry in pastry making (3mks)
* Insufficient relaxing
* Stretching during shaping
* Stretching during rolling
1. What advice would you give to your friend who had narrow hip about choice of attive? (4mks)
* She wear pleated skirts
* wear over blouses
* to avoid tight fitting skirts
* bulky fabrics are suitable
1. A wise shopper in a wise consumer. Give five points a consumer should look for before buying an item. (5mks)
* Should do window shopping to compare prices in different shops
* Should ship for quality – a good quality product will last long
* Should look for features of a product buy one with useful features
* Should examine tag and label on an item to get information on use and care.
* Should find out about guarantee. The more expensive an item the more coverage on guarantee one needs
* Find information on installation, delivery ,serving etc
1. Discuss five factors to consider in choice of a washing machine (10mks)
* Size of the family or establishment to determine size to be bought.
* Space available for storage
* Cost and maintenance
* Consider control of the machine
* Buy from reputable dealer
* Should have instruction manual
* Consider serviceability of machine
1. Osteemalacia is a common disorder among women of child- bearing age. Give four symptoms of the above disorder (4mks)
* Bone tenderness
* Patients walk with legs wide apart appearing to be waddle
* Twitching of muscles
* Spontaneous fracture may occur
1. What factors should be considered when choosing floor covering? State six.(6mks)
* Should relate to the Colour scheme of the room.
* Design of the upholstered furniture
* Texture of the fabric or material used
* Size of the room.
* Cleaning and care required
* Amount of money available
* The purpose of the covering eg soft carpet or sitting room, bed rooms and corridors and carpet for kitchen and bathroom