BASIC 7 CAREER TECH

MARKING SCHEME

SECTION B

Q1(a)smart materials : Is a compound which has a visible and tangible reaction to external stimuli by undergoing a material property change

2marks

(b)

|  |  |  |
| --- | --- | --- |
| Sand uses | Clay uses | Lime uses |
| Plastering /rendering | Mouldings bricks | For cement |
| Screeding | Cooking pots | For Mortar |

|  |  |  |
| --- | --- | --- |
| Characteristics of sand | Characteristics of clay | Characteristics of lime |
| Plasticity ,cohesion very low | Plasticity cohesion very high | Lime is uniform as compare to Portland cement |
| Chemical activity inactive | Chemical very active | Lime mixes have good workability |

. 6marks

(c) i)lime iv)tooth brush

ii)ash v)deodorant

iii)soap. Vi)tooth paste

d) i)wash hand more often

ii) bath regularly

iii)brush teeth regularly

iv) use deodorant

V)clean hair

6marks

(e) i) cotton wool

ii) plaster

iii)scissors

iv)anti wipes

v)elastic bandage

Vi) adhesive tape

4marks

Q2 (a) unintentionally ,typically resulting in damage or injury

3marks

b)i) fatigue

ii) stress

iii) trip and fall

iv)dehydration

v) poor ventilation

5marks

c) i) land pollution

ii) water pollution

iii) air pollution

iv)chemical exposure

v) food hygiene

6marks

d)i)Food contamination : Refers to the presence of harmful chemicals And microorganisms in food which Can cause the consumer illness

ii)food poisoning : illness. Caused by food contaminated with bacteria ,viruses, parasites or toxins.

e)first aid is the immediate and temporary treatment given to a person with an injury before evacuate to the nearest health facility .

Q3 a)Resistant materials: They are materials that are flexible and not easily compressed with bare hands. Eg wood ,plastics, ceramics

b) i) they are pleasant to handle

ii) they are good thermal insulators

iii) they have a good corrosion

iv) durability and longevity

v) recyclability

5marks

c) metals are used for manufacturing home appliance .

ii) metals are used for manufacturing automobiles

iii) use for construction materials

d) smart materials: They are materials that has visible and tangible reaction to external stimuli by undergoing a material property to change.

3marks

e) i) Complaint materials: Materials that conforms to regulations or organized ,predictable and consistent properties such such as paper card ,fabric .

3marks

f) paper is made in two steps, cellulose fibers are extracted from variety of sources and converted to pulp .pulp is combined with water and placed on a paper making machine where it is flatten ,dried and cut into sheet and roll.

Q4(a) bathing regularly

ii)cutting of toe nails/finger nails

iii) clean hair

iv) use of deodorants

b) i) store food at proper temperature

ii) use safe water

iii)use safe raw materials for food

iv) reheat food thoroughly before eating

v) only clean hand to handle food

vii) prevent contamination food

5marks

c) stress

ii) fatigue

iii) workplace violence

iv) trip and fall

v) lifting

5marks

d) i) To save life life of the victim

ii) To reduce pain and blood flow

iii) To prevent further injury

iv) To arrange for transport for evacuation to the hospital

4marks

e) avoid littering the environment with plastics

ii) avoid indiscriminative defecating

iii) avoid deforestation and increase afforestation

iv) using clean technologies and fuel for domestic cooking ,heating and lighting would reduce acute respiratory infections

4marks

f) for personal use

ii) for storing information

SECTION A

1. C 16. C

2. B 17. A

3. C 18. B

4. A 19. C

5. A 20. D

6. B 21. B

7. C 22. C

8. D 23 A

9. A 24. A

10. A 25 A

11. A 26. A

12. C 27. B

13. A 28. A

14. D 29. B

15. D 30. A

MARKING SCHEME BASIC 8

Q1 )(A) the weight of the fabric

The Durability of the fabric

the Softness

breathability

4marks

B) cotton

Wool

Synthetic

Polyester

Nylon

2 marks

C) over weight

Warm weather

Excessive sweat

Smelling feet

Hormonal change

5marks

D) First aid box: Is box that contains supplies and equipment that are use tongive medical treatments .

E) chemical burns : Are burns that occurs when the skin come into contact with an irritant .

ii) car battery acid

ammonia

denture cleaners

Teeth whitening products

Bleach

F) deforestation : Is the clearing or removal of trees through deliberate ,accidental or natural means.

2marks

G) illegal logging

Over population

Bush fire

Mining

Agriculture

Urbanization

Desertification

Climate change

Q2)(A) Food :is anything liquid or solid contain nutrients that is consumed or absorbed by humans ,animals ,plants in order to sustain growth .

Aii)

|  |  |
| --- | --- |
| Liquid form | Solid form |
| milk | banku |
| soup | konkonte |
| juice | yam |
| Beverages | fufu |

. 5marks

B) the volume of the mortar increase (bulking )

Improve setting capability

Increase density of mortar

Prevent cracking of mortar

Prevent excessive shrinkage

3marks

C) overgrazing

Deforestation

Farming practice

Excessive use of fertilizer

Urbanization

Climate change

Strapping the land of sources

5marks

D) helps the body to grow

It builds ,repairs and the maintenance of the body

It helps in protection from diseases

It helps to satisfy hunger ,social needs and pleasure

5marks

E) food industry

Textile industry

Electronic industry

Building industry

F) modified starches used in preparation of same food .eg. Pizza

Sanitize fabric for sports wear and socks

Liquid crystal display for organic light Emmitt diodes

Photochromic pigments for lens in glass

3marks

Q3)(A)

|  |  |
| --- | --- |
| Natural Fabre | Synthetic |
| wool | Rayon |
| cotton | Polyester |
| Silk | Nylon |

. 3marks

B) hardwood come from dicot trees .these are usually found in broad leaves

Softwood comes from gymnosperm trees such as pine and spruce.

Manufactured wood: Is modified and improved wood made from combining and pressing different wood pieces together with other ingredients like glue and sawdust .

3marks

C) brass

Stainless steel

High speed steel

Bronze

5marks

D) pit sand

River sand

Sea sand

3marks

E) texture

Density

Structure

Appearance

Strength

Hardness

Porosity

Toughness

5marks

F)

|  |  |  |
| --- | --- | --- |
| Bodybuilding | Protective food | Energy giving food |
| Animal food and products ,  Vegetables or plant protein | Fruit and vegetables | Fat and oil  Starches  Plantain  Cereals and grains |

. 6marks

Q4)(A) it be chemically

It should not contain organic matters

The sand should be free from clay materials

The grains should be sharp, angular and Coase

The grains should be of durable minerals

B)soundness

Consistency

Strength

Bulk density

Setting time

Fineness of cement

4marks

C)

|  |  |
| --- | --- |
| Food groups | Example |
| 1 ) fat and oil | Palm oil, coconut oil |
| 2). Starchy roots and plantain | Yam, plantain |
| 3) vegetables ,plant protein food | Beans, soya , |
| 4) fruit and vegetable | Banana ,orange,mango |
| 5) grains and cereals | Rice, millet,maize |
| 6) animal food and products | Milk, |

6marks

D) flooding

Poor water quality

Over population

Poverty

Migration

Destruction of habitat

Farming be come impossible

Hunger

Health problem

5marks

E) wash your feet at least twice daily

Wear shoe with feather lining

Wear clean pair of sock made from wool

Apply foot deodorant

Walk around bare foot

5marks

Marking scheme

CAREER TECHNOLOGY

Form two

Objective

1)D. 11)A. 21)C

2)A. 12)A. 22)A

3)A. 13)C. 23)D

4)C. 14)C. 24)A

5)B. 15)D. 25)D

6)D. 16)A. 26)D

7)B. 17)C. 27)C

8)A. 18)C. 28)A

9)B. 19)A. 29)B

10)C. 20)D. 30)B