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5 SEM TDC HSCH (CBCS) C 12

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(Held in January/February, 2022)

HOME SCIENCE

(Core)

Paper : C-12

(**Physical Science**)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. State whether the following statements are True or False : 1×5=5
- (a) Monosaccharide and disaccharide are soluble in water.
 - (b) Amino acids are amphoteric, which means they have acidic and basic tendencies.
 - (c) Natural dyes are dyes or colorants derived from plants, invertebrates or minerals.

(2)

- (d) Water heating is not a heat transfer process that uses an energy source to heat water above its initial temperature.
- (e) A conductor is an object or type of material that prevents the flow of charge (electric current) in one or more directions.

2. Write on the following (any five) : $2 \times 5 = 10$

- (a) Effect of cooking on carbohydrate
- (b) Saturated fat and unsaturated fat
- (c) Polysaccharides
- (d) Energy and power
- (e) Electric iron
- (f) Fuse

3. Write short notes on the following (any four) :

$5 \times 4 = 20$

- (a) Harmful effect of radiations
- (b) Properties of natural and synthetic dyes
- (c) Lighting in interiors
- (d) MCB
- (e) Solar energy and its applications
- (f) Fatty acids

(3)

4. Write the different types of packaging used in food industry and classification of protein.

4+4=8

Or

What is CFL? Write briefly about the incandescent lamp. Mention any four importances of LED light.

1+3+4=8

5. Define X-rays. Mention any two types of refrigerator. Illustrate various types of lighting.

2+2+6=10

Or

What is Newton's law of motion? Write any two types of force. Draw a reflection diagram. Write any five precautions while using equipments and servicing of equipments used.

1+2+2+5=10
