

General Science
Principles of Evaluation

PART-A SECTION-I $4 \times 2 = 8$

1.] i) If Peel removed from vegetables we will not get fibre and some rich nutrients.

ii) fibre is useful for free bowel movement
 (2 points 2 marks)

2.) i) What are the ingredients required to prepare chicken biriyani?

ii) How Rava Upma prepared with vegetables?
 iii) How to preserve meat for a long time?
 iv) What happen if food is not preserved?

(any 2 questions 2 marks)

3.] i) Chemical energy [Gas or kerosene oil] converts into heat energy

ii) Heat energy converts into Steam energy

iii) Steam energy converts into mechanical energy
 (Any two points 2 marks)

4] i) Farmers plan their agricultural activities.
 ii) Fishermen need to know if it will be safe to go out to sea
 iii) Planning to celebrate a function of the family

[2 points 2 marks]

Section -II

(2)

$$5 \times 4 = 20$$

- 5] i) In case of wall clock, change (movement) in the position of minute hand is the same for every minute
 ii) But in case of the butterfly the change in its position is not constant. It is flying from one flower to another. [2 marks]
 iii) In wall clock case the change of position with time is constant. [2 marks] (4 marks)
- 6] i) Sudden appearance of clouds
 ii) The wind speed (or) cool breeze
 iii) The humidity
 iv) ~~The~~ temperature
 are the predictions for rain
 [4 points 4 marks]

- 7] i) 18.8.2016
 ii) 15.8.2016, 16-8.2016 and 18.8.2016
 iii) 15.8.2016, 16-8.2016 and 18.8.2016
 iv) 31° (or) 32° (or) 34°
 [4 questions 4 marks]

<u>Food items</u>	<u>Food components</u>
1. Rice	carbohydrate
2. chapatti	carbohydrate
3. Potato	carbohydrate
4. curd	protein & fat
5. Onion & Tomato	Vitamins & minerals
6. banana	carbohydrate & minerals
7. Dal	Protein
8. Vegetables	Vitamins & minerals and fibre

9] Uses of acids, bases and salts in occasions :-

(3)

Acids

1. Acetic acid (vinegar)
Preparation of Pickles
2. citric acid (lemon)
Preparation of Lulikova
3. carbonic acid
soft drinks
4. sulphuric acid
manure, batteries

Bases

1. calcium hydroxide
bleaching powder
2. Potassium hydroxide
& sodium hydroxide
to make soap
3. Ammonium hydroxide
to removal of grease stains

Salts

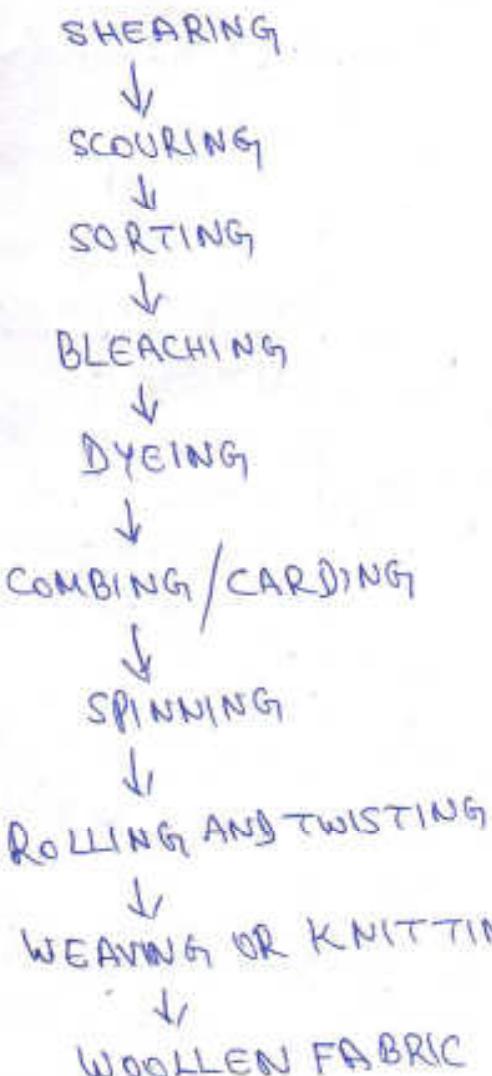
1. Common salt
Food preservative
2. Washing Soda
wash clothes
3. Baking Soda
cake preparation
and make idli ^{smoothly}
and make vada ^{crispy}

[2 from each 4 marks]

Section - III

10] A)

Flow chart



All correct

[8 marks]

[Each stage 1 mark]

(4)

(or)

- B) i) These Jolts will bring the level of mercury down (2 marks)
 ii) i) Celsius scale, ii) Fahrenheit scale.
 35°C to 45 degrees (2 marks)
 94°F to 108°F

ii) A) To compare two speeds. They must be expressed in same units.

$$\text{Speed of a bus} = 72 \text{ km/h}$$

$$\text{Speed of a car} = 12.5 \text{ m/s}$$

$$1 \text{ km/h} = 5/18 \text{ m/s}$$

$$1 \text{ m/s} = 18/5 \text{ km/h}$$

Thus the speed of car is

$$12.5 \times 18/5 \text{ km/h} = 45 \text{ km/h}$$

Hence bus moves faster than car

(or)

B)

Name of the motion	<u>Translatory motion</u> (1 mark)	<u>Rotatory motion</u> (1 mark)	<u>Oscillatory motion</u> (1 mark)
Examples:	1. car moving in a straight road 2. bullet from gun 3. an arrow from a bow	1. motion of a wheel 2. motion of blade of ceiling fan 3. motion of a drill bit	1. The girl one swing 2. needle in sewing machine 3. Pendulum in wall clock

(Each 2 example 5 marks)

- 12) 1) 2% Copper sulphate solution
 2) 10% of sodium hydroxide soln. (3 marks)
 3) test tube

Take 10 drops of sample in a clean test tube and add 2 drops of 2% copper solution and 10 drops of 10% of sodium hydroxide solution and shake well. Change of colour to violet (or) blue

12) B)

(or)

- 1) direction of the wind. (1mark)
- 2) paper cup, refill, card board, scissor, nail (2marks)
- 3) Take two card board pieces and cut them the shape of an arrow and paste them together. insert a needle in the middle of the arrow. The needle must be long enough to be fixed on a strong base and should allow the arrow to move along the direction of the wind. (5marks)

13)

- 1) clinical thermometer
- 2) mercury
- 3) A. bulb B. constriction C. capillary tube
- 4) our body temperature

[Each 2marks (8marks)]

(or)

i) Life cycle diagram [6marks]

ii) Pupa stage [2marks]

Part-B

[20marks]

14-B 15-D 16-B 17-D 18-C 19-A 20-C 21-A

22-C 23-C 24-D 25-B 26-B 27-C 28-B 29-B

30-B 31-C 32-A 33-A

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