

I. Answer the following questions:

1. ----- is a single value, which is used to represent an entire set of data (1)
2. Mode is found graphically by: (1)
  - a) Ogive b)Histogram c)Frequency Polygond d)Bar Diagram
3. Write three demerits of Median. (3)
4. What are the objectives of calculating the measures of central tendency? (4)
5. a) What do you mean by i) Quartiles ii) Percentiles and calculate the weighted mean of the following distribution: (4)

Items	12	29	14	41
Weights	6	4	5	2

(OR)

- b) Define mode and write 3 merits and 3 demerits of mode.
6. a) Compare mean, median and mode as measures of central tendency. (6)

(OR)

- b) The following table gives the daily income of 10 workers in a factory. Find the arithmetic mean by using a) Direct method

b)Assumed mean method

Workers	A	B	C	D	E	F	G	H	I	J
Daily Income (in ₹)	120	150	180	200	250	300	220	350	370	260

7. Write two merits of (6)

i) Arithmetic Mean ii)Median iii)Standard Deviation.

I. Answer the following questions:

1x5=5

1. Give the name of the chemicals, which are released at the synaptic junctions.
2. What is the role of afferent nerve fibres in the nervous system.
3. ----- layer of the eyeball forms the ciliary body.
4. Which part of the ear determines the pitch of a sound?
5. What is the function of organ of corti?

II. Answer the following questions in short:

2x3=6

6. Compare the choroid and retina?
7. Compare the following:  
Central nervous system and peripheral nervous system.
8. Compare the following:  
Resting potential and action potential. (OR)

Differentiate between myelinated and non-myelinated axons.

III. Answer the following questions in brief:

3x3=9

9. Explain the role of Na<sup>+</sup> in the generation of action potential.
10. Describe about the protective coverings of the brain.
11. Answer briefly:
  - a) How do you perceive the colour of an object?
  - b) How does the eye regulate the amount of light that falls on the retina?(OR)

Draw a labelled diagram of the neuron.

IV. Answer the following questions in detail:

5x1=5

12. Write short notes on the following:

- i)Forebrain
- ii)Mid brain
- iii) Hind brain