

Paper VIII

Unit 2 : Psycho-physic

- 2.1 Meaning
- 2.2 Problems in Psycho-physics
- 2.3 Methods in Psycho-physics
 - 2.3.1 Method in Limits.
 - 2.3.2 Method of Constant Stimuli
 - 2.3.3 Method of average error
- 2.4 Types of errors introduced in Psychophysical expts. and measures of minimising them.

Unit 3 : Sensations I

- 3.1 General study of physiology of different sense organs.
- 3.2 Psychological study of sense organs.
 - 3.2.1 Vision : Types : scotopic and photopic
 - Process of light and dark adaptation
 - Blind spot
 - Characteristics of chromatic and achromatic vision.
 - Concur theories - Young Hennholts's and Helmholtz's
 - 3.2.2 Audition acuity
 - Theories of hearing - Resonance, frequency and volley.
 - 3.2.3 Experimental study of chemical sensation. Olfactory and gustatory.
 - 3.2.4 Cutaneous sensation - heat, cold, pain and pressure spots.

Unit 4 : Perception and Language Dev. Mktg & A

- 4.1 Perception of form, space, time and movement
- 4.2 Illusion
- 4.3 Experimental study of concept formation and language development in a child.

Unit 5 : Learning :

- 5.1 Measurement, learning curve and its characteristics
- 5.2 Types - Motor, Verbal and problem solving
- 5.3 Experimental study of conditioning
- 5.4 Experimental design for the study of transfer of learning.

Unit 6 : Retention and Forgetting

- 6.1 Measurement of retention
- 6.2 Experimental study of determinants of retention
- 6.3 Experimental study of Interference and forgetting

Unit 7 : Work and Fatigue

- 7.1 Measurement of fatigue, work curve and its characteristics.
- 7.2 Experimental study of determinants of fatigue, ergonomics.

Unit 8 : Reaction time and association

- 8.1 Types and measures of reaction time
- 8.2 Experimental study of determinants of reaction time.
- 8.3 Experimental study of speed and variations in association formation.

Unit 9 : Human Behaviour

- 9.1 Experimental study of thinking, reasoning and problem solving
- 9.2 Experimental study of emotional behaviour.
- 9.3 Experimental study of Social behaviour.

Paper VII

Reference Books :

1. Mary Collins & James Brewster : Experimental Psychology
Avail Book Depot., Ludhiana
2. Postman Leo & Egon James : Experimental Psychology
Kalyani Publishers, New Delhi
3. Sigeraski B.K. : Experimental Psychology
Holt, Rinehart, Winston, New York
4. Borung E.G. : A History of Experimental Psychology
The Times of India Press, Bombay
5. Andree R. C. : Experimental Psychology
Wiley Eastern Pvt. Ltd., New Delhi
6. Underwood B.J. : Experimental Psychology
The Times of India Press, Bombay.
7. Valentine C.W. : An Introduction to Experimental Psychology
University Tutorial Press Ltd., New Oxford.
8. Kothurkar V. K. & Vararase S.J. : Experimental Psychology - A Systematic
Introduction.; Wiley Eastern Ltd., New Delhi.
9. Mohsin S.M. : Experiments in Psychology
Orient Longman, Ltd., Bombay
10. Parasheshwaran A.G. & Rao U.T. : A Manual of Experimental Psychology
Laiwani Publishing House, Bombay
11. Kuppu Swami S. : Elementary Experiments in Psychology
Geoffrey, Madras.
12. Mann N.L. : A Laboratory Manual in General Experimental
Psychology : Houghton Mifflin Company, Cambridge

Paper VII

Unit	Topic	Object of the experiment
1. Psychophysical methods.	Method of limits Method of right & wrong cases Method of Mean error.	i) To calculate the threshold using the method of limits. ii) To determine the differential threshold by using the method of right & wrong cases. iii) To calculate the space error by using the method of mean error.
2. Sensation	Vision : Mapping the Blind spot Vision : Contrast effect Field of vision Vision - Colour mixing Vision - order of colour preference. Vision-Colour blindness Auditory sensation	iv) To map the area of the blind spot. v) To study the Phenomenon of successive colour contrast. vi) To study the phenomenon of simultaneous colour contrast vii) To map the retinal fields of vision for different colours. viii) To verify the laws of colour mixing. ix) To determine the subjects order of colour preference. x) To detect the presence of colour blindness xi) To determine the absolute threshold for sound intensity xii) To determine the accuracy of localisation of sounds at different position in the horizontal, coronal, and sagital planes.
3. Sensations	Cutaneous sensation Kinaesthetic sensation perception of movement	xiii) To map the heat and cold spot on the limited area of the skin of the subject. xiv) To map the pain & touch spots on the limited area of the skin of the subject. xv) To determine the special threshold or the aesthesiometric index. xvi) To estimate the successive simultaneous movements of the individual.
Perception Concept formation	Perception of form Concept formation	xvii) To study the factors affecting Gestalt figures. xviii) To study the process of concept formation.
Learning	Bilateral Transfer Interference Maze learning	xix) To study the effect of bilateral Transfer. xx) To study the effect of interference in learning. xxi) To measure the process of learning in unseen stylus mazes & to discover & compare the method employed.

Paper VIII

Retention and forgetting	Retention	xviii) To compare the efficiency of retention by the measures recall and recognition.
Work and fatigue	Fatigue	xix) To prepare and study the stages of work curve.
Reaction time & reaction.	Reaction Time	xxiv) To measure the simple reaction time, discriminatory time for visual & auditory stimuli.
Association	Association	xxv) To study the individual differences in association formation.
Human Behaviour	Thinking	xxvi) To measure the individual capacity at the time of the test, for abstract & clear thinking.
	intelligence	xxvii) To judge intelligence from photographs.
	Emotional Behaviour	xxviii) To study a performance test of intelligence.
	Problem solving in group situation	xxix) To judge emotions from Photographs.
		xxx) To compare the problem solving behaviour of subjects working alone & in a group situation.