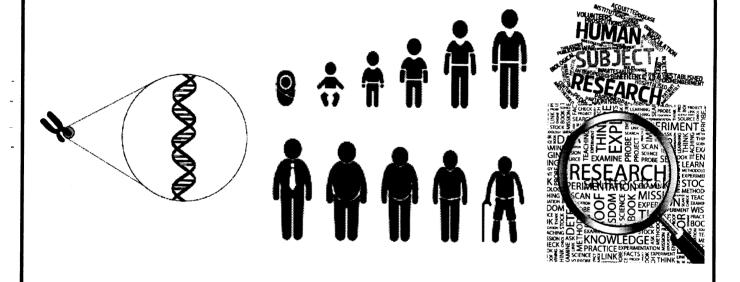
Fundamentals of Human Development

Practical Manual
I B.Sc (Hons) Community Science



Human Development & Studies
College of Community Science
Vasantrao Naik Marathwada Krishi Vidyapeeth
Parbhani- 431402

Practical Manual

B.Sc (Hons) Community Science

Authors

Prof. Vishala Patnam Dr. Jaya Bangale

Printed by

College of Community Science VNMKV, Parbhani (MS)

ICAR Developmental Grant 2016-17

Practical Manual

B.Sc (Hons) Community Science

Authors

Prof. Vishala Patnam Dr. Jaya Bangale

Printed by

College of Community Science VNMKV, Parbhani (MS)

ICAR Developmental Grant 2016-17

Human Development & Studies College of Community Science Vasantrao Naik Marathwada Krishi Vidyapeeth Parbhani- 431402



It is to certify that this is record of the practical work carried			
out by			
Reg. No	_ in the Course of Fundamentals of Human		
Development, HDS1	11, 3 (2+1) During I Semester of B.Sc (Hons)		
Community Science.			
Course Professo	r Student		

External Examiner

Head
Human Development & Studies
College of Community Science
VNMKV, Parbhani

INDEX

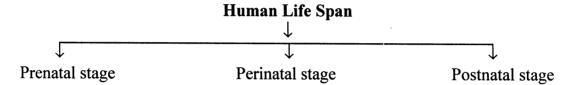
S. No.	Name of Experiment	Date
1	Understanding about Stages of Human Life Span	
2	Understanding about Human Wholesome Development	
3	Assessment of Growth of Children and Adolescents	
4	Educational Video Film on Stimulatory Home Environment for Infants and Toddlers	
5	Assessment of Home Environment Provided to Children by Families	
6	Assessment of Motor Development of Infants with Baley Scales of Infant Development (BSID)	
7	Assessment of IQ of children With Raven's Coloured Progressive Matrices	
8	Assessment of Social Maturity of Children with Vineland Social Maturity Scale for Children (VSMS)	
9	Common Vocational and Recreational Interests of Adolescents	
10	Assessment of Emotional Maturity of Adolescents with Emotional Maturity Scale	
11	A Case Study of Adolescents on Gender Inequality Experienced by Them in Their Families	
12	Video Film on Gender discrimination and Ill Effects of Female Infanticide	
13	Common Concerns and Issues of Senior Citizens	
14	Research Designs for studying Growth of Lab. Pre-Primary School Students	
15	Preparation of Resourse file	

Understanding about Stages of Human Life Span

Objective

To understand about stages of human life span

Human life span starts from the moment of conception (Zygote formation) and it ends at the death of individual. The stages of human life span are mainly divided into three stages i.e Prenatal stage, Perinatal stage and Postnatal stage.



Prenatal stage is divided into 3 sub-stages i.e Zygote, Embryo and Fetus.

Perinatal stage

It includes the time taken from initiation till the completion of delivery. It may lasts from hours to days.

Postnatal stage

It starts at the time of birth and ends at the time of death of an individual. It is a very long stage in human life span. It is divided in to mainly nine sub-stages

Sub-stages of Postnatal Stage

1 Neonatal stage	Birth to 4 weeks
2 Infancy stage	End of 4 weeks to 12 months
3 Toddlerhood stage	1 yr - 2 yrs
4 Early Childhood stage	2 yrs - 6 yrs
(Pre-school stage)	
5 Late Childhood stage	6 yrs – 13 yrs or till sexual maturity
(school Age stage)	
6 Adolescence stage	13 yrs – 18 yrs
(Puberty stage (11yr – 15yr)	
7 Early Adulthood stage	18 yrs – 40 yrs
8 Middle Adulthood stage	40 yrs – 60 yrs
9 Late Adulthood stage	60 yrs – till death
(Senior citizens)	

Note: Collect pictures relating to all the stages of human life span and stick it

Prenatal Stage

Perinatal Stage

Postnatal Stage

Learnin	g outcome			
			T	

Understanding about Human Wholesome Development

Objectives

- To understand about the domains of wholesome development of individuals
- To analyze one's own development based on social feedback

Introduction

Human wholesome development is based on heredity and environment. Heredity fixes the optimum level of development, while environment helps the individuals to develop to that level, Conducive environment enhances development of individuals while non-conducive environment hampers development of individuals. There are total 8 components of development. They are Physical, Motor, Intellectual, Emotional, Social, Speech, Language, and Moral development. All these components are inter dependent, interrelated and occur concurrently every moment at various speeds based on the activity individual is involved in. Briefly each component of development is inclusive of the following aspects/ items/domains.

Physical Development- Individual's height, weight, circumferences of head, chest and mid-arm, body proportion, teeth, features etc. Based on body build, people are categorized as ectomorph, endomorph and mesomorph.

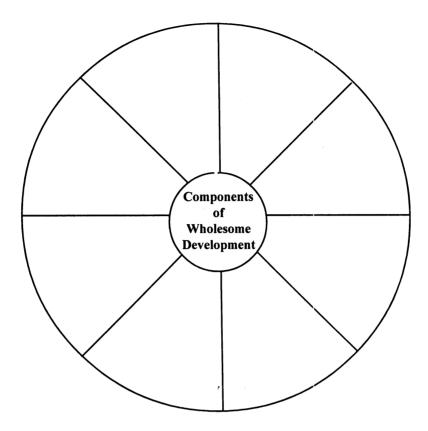
Motor Development- Movements and activities of hands, legs, trunk, neck, body language etc,.

Intellectual Development- Perceiving, thinking, understanding, analyzing, relating, reforming, memory, questioning, answering etc. It is developing of common sense too. It occurs when there is integration between 5 sensory functions - Listening, observing, touching, smelling and tasting.

Emotional Development – Responding to stimuli, expression of emotions, understanding emotions in social context, learning to control, manage, express emotions suitable to one's age and situations in a socially acceptable way.

Social Development- Personal interactions with people around. Learning to get along with different nature, age, values, people, making friendship, able to do work with others, cooperating, coordinating, supporting, expanding social circle etc. Based on social competency people are divided into 3 types- Extrovert, introvert and ambient.

Components of wholesome development



Speech Development- Pre-speech forms like crying, coo...coo sound, babbling, gestures etc,. Speech is inclusive of pronunciation, articulation, voice quality, voice modulation, loudness and so on.

Language Development- learning to speak words, understanding different meaning of words, learning sentence formation, grammar, semantics, pragmatics and increasing vocabulary. Learning more than 2-4 languages like Marathi, Hindi, English, and Sanskrit ... Language development and intellectual development are very inter dependent.

Moral Development- Learning to differentiate between right and wrong. Learning to repeat good acts and resisting doing bad acts. It depends mostly on what type of social environment provided to children

Experiment

Just try to understand yourself in light of social feedback- your own rating and peer ratings based on general observations and experiences. The ratings should be on 5 point scale: Excellent(5), Very Good (4), Good (3) Okey (2) and Poor (1).

Components of Wholesome	Rat	ings
Development	Self	Peers
Physical Development		
Motor Development		
Intellectual Development		
Emotional Development		
Social Development		
Speech Development		
Language Development		
Moral Development		

nterpret	tation	
_		·
_		
_		
_earning	goutcome	
_		
_		

Assessment of Growth of Children and Adolescents

Objectives

- To learn about the standard procedure for taking anthropometric measurements of children and adolescents
- To know the significance of anthropometric measurements in assessing growth, gross nutritional and health status of children and adolescents
- To learn the techniques of assessment of growth quotient of children and adolescents

Requirements

Plastic scale Calculator

Growth norms Children /Adolescents -different age groups

Measuring non stretchable rubber tape Digital weighing machine

Anthropometric scale Note book and pen

Anthropometry

Anthropometry means scientific method of taking body measurements. The measurements of body weight, height and head circumference are important parameters for assessing growth (GQ), gross nutritional and health status of infants, children and adults.

Weight

Children's /adolescent's weight measurement is taken by using digital weighing machine.

Height

Anthropometric Tape/Rod (for height)

Make the child to remove foot wear and help him/her to stand straight with heels, buttocks and shoulders touching the smooth surface of the anthropometric tape / rod. Child should keep feet together. Arms should be in hanging position. The child must look straight at eye level. The lever of anthropometric rod/a plastic scale on measuring tape need to be kept on child's head pressing it gently for making a contact with top of child's head. Remove child and record the measurement in cm without parallax error.

Head circumference

For taking head circumference

- Remove the head coverings and hair pins or clips if any on child's head. Let the child / adolescent stands in front of you if it is convenient
- Unwind the measuring tape and pass it around the child's / adolescent's head from back to a side. Make sure that the tape is placed at the occipital region at the back and just above supra orbital ridges at front of child's / adolescent's head
- Note down the reading at the meeting point of the measuring tape only in cm

Anthropometric measurements of individual	Utility of anthropometric measurements in assessment of
Weight (kg)	1 Growth 2 Gross Nutritional status 3 General Health status 4 Physiological changes/abnormities, if any
Height (cm)	1 Growth 2 Gross Nutritional status 3 General Health status 4 Physiological changes/abnormities, if any
Head Circumference (cm)	1 Growth 2 Nutritional and 3 Health status

Procedure of Assessment of Growth Quotient (GQ)

3

GQ ranges	Remarks
95-105	Excellent
90-95	Very Good
85-90	Good
80-85	Fair /okay
Below 80	Poor & needs immediate care
Above 110	Obese & needs immediate care

Model Case Study

Growth Quotient (GQ)

Child's Name	Sex	Age	Height (cm)	Weight (kg)	Head circumference (cm)
Namdev	Male	3.6 yrs	93	18	48

Dare of birth: 22.07.2014 Age: 3 yrs 6 months Family background

> Father's occupation : Teacher Mother's occupation : Teacher

> Type of family : Nuclear

Blood type and group : A +

Child's body	Norms for
measurements	3.6 yrs boy
Ht - 93.0 cm	99.0 cm
Wt - 18.0 kg	15.0 kg
Hc - 48.0 cm	50.5 cm

Using GQ Formula
$$\frac{\text{Wt \% + Ht \% + Hc \%}}{3}$$
Wt % = $\frac{18}{15}$ x 100 = 120
Ht % = $\frac{93}{99}$ x 100 = 94
Hc % = $\frac{48}{50}$ x 100 = 96

$$GQ = \frac{120 + 94 + 96}{3} = \frac{310}{3} = 103.33$$
 Therefore his $GQ = 103$

Conclusion

Namdev's growth (Physical development) is Excellent as his GQ is 103. If his GQ goes above 110, he will fall in obese category. Advise him to do exercise regularly and also to take care of his food intake.

¥	•	
Lea	rning	outcome
		outcome







Educational Video Film on Stimulatory Home Environment for Infants and Toddlers

Objective

To view the educational video film on Stimulatory Home Environment (SHE) for Infants and Toddlers for knowing how to utilize materials and family members to provide SHE for Infants and toddlers

Film

It is developed by Prof. Vishala Patnam, Child Development Expert and Prof. Ramana Desetty. Financial support to it was given by VNMKV and ICAR Developmental Grant. It focuses on what type of stimulants and stimulatory activities need to be provided to infants and toddlers. They can be provided very easily to create conducive learning environment for enhancing their wholesome development.

Pen down 20 stimulatory materials suitable to infants and toddlers from this film

1	11
2	12
3	13
4	14
5	15
6	16
7	17
8	18
9	19
10	20

1				
2				
3				
4				
5				
6				
7			****	
8				
9				784
10				
10				
Learni	ng outcome			
		 		

Write down 10 stimulatory activities from this film suitable to infants and toddlers

Assessment of Home Environment Provided to Children By Families

Objectives

- To get oriented to Parental Inventory for Assessing Home Environment of Child
- To learn the technique of assessment of home environment provided to child in his/ her families and its interpretation

Requirements

Parental Inventory for Assessing Home Environment of Child Pencil, a family having a 2 yrs / 3 yrs old child

Introduction

Home Environment plays an important role in wholesome development of young children as they spend most of their wakeful hrs at one's own home as compared to the older children. Fifty percent of the adult's development takes place in the first four years of child's life. Therefore it is essential to provide stimulatory physical as well as social environment to young children with utmost care.

Utility and Description of Home Environment Inventory

Parental Inventory for Assessing Home Environment of Child developed by Prof. Vishala Patnam, et al, Child Development Scientist, is very helpful for assessing the magnitude of the quality of the stimulatory environment provided at home to the child. If the child's home environment is recorded to be deficient in any of the components of inventory, the family can make sincere efforts on a priority to fill up those deficient items in the interest of child's wholesome development. This inventory has a list of 100 statements related to the home environment provided to young children (2 - 4 yrs) It has more objective and quantifiable items. However, certain items involve some level of subjective interpretation of observation of play material, activities, response of family members and also by interviewing them .

Major Components of the Home Environment Inventory are

- 1 Stimulatory learning material and activities provided to the child (50 items)
- 2 Physical environment of home (7 items)
- 3 Acceptance of child and interactions of parents/family with the child (9 items)
- 4 Stimulatory activities provided to the child for nurturing academic capabilities (9 items)
- 5 Efforts taken for socialization of the child (25 items)

Instructions

- First develop good rapport with the family of the child, whose home environment has to be assessed.
- The tester (person assessing HE) must be vigilant in observing things formally and informally in child's family.
- > The observations must be focused on the items mentioned in the home environment inventory.
- The observations must be focused on the items mentioned in the home environment inventory.
- In addition to the observations the tester need to interview family members for getting information about them and other details required for filling up the home environment inventory.
- > The observed items need to be tick marked in the inventory.
- > The items which are not observed or did not happen need to be crossed in the inventory.
- The total tick marked items need to be counted.
- Each tick marked item gets 1 point.
- The raw score is the total tick marked items multiplied by 1 point.
- The raw score must be compared with the the scores given for the categories mentioned in the table given below for analyzing/assessing the quality of home environment provided to the child.

Cas	se Study			Date:
1 (Child's full name	:		
2	Date of birth	:		
3	Age	:	Gender :	
4	Address	:		

5	Type of family	•		
6	Size of family	:		
7	Family monthly incon	ne:		

Raw Scores Obtained for Various Components of Home Environment

S.No.	Components of Home Environment	Obtained Scores
1	Stimulatory learning material and activities provided to the child	
2	Physical environment	
3	Acceptance of child and interactions of parents/family with the child	
4	Stimulatory activities provided to the child for nurturing academic capabilities	
5	Efforts taken for socialization of the child	
	Total score obtained	
		100

The total of items tick marked (observed/ happened) in all the five components of home environment (raw score of 1+2+3+4+5) is ————— out of 100 items.

Levels of Quality of Home Environment

Raw Score	Quality of Home Environment
Above 86	Excellent
69-85	Very Good
53-68	Good
36-52	Fair
< 35	Poor

pretation / Assessment	of Home Environment	
ning outcome		

Assessment of Motor Development of Infants with Bayley Scale of Infant Development (BSID)

Objectives

- To get oriented to BSID –Motor Developmental Scale
- To observe the process of administering BSID- Motor Developmental Scale on an infant for assessing her/his motor development

Utility and Description of BSID

The Bayley scales of infant development (BSID) are helpful for assessing the development of infants. The primary value of the test is to diagnose developmental delay/disorder if any at an early stage and based on it to plan and execute effective intervention for easy correction. BSID consists of three scales (Motor, Mental and Social behaviour).

Motor scale

It covers neuro-muscular maturity in the form of body control and coordination in movements . The test items of the earlier period refer to simple tasks and handling of objects.

Suitable to 1 month to 30 months old infants & toddlers

Approximate time requirement is - 20-40 minutes

Requirements

BSID kit

Stop watch

1/4 size white papers & pencil

List of few Test Materials

Hand bell Cubes or blocks

A small bright colour ball Pen torch

Pellets A small attractive toy

A cup with saucer Tea spoons (2)

A whistling doll with joined limbs Round box

A stick (about 10"-11" long with a very small toy bunny)

Paper Pink form board

Blue form board Rattle

Red ring Mirror

Crayons Yellow Pegs board

Blue Box Picture books

Wheel toy Toy chair

Stair case/steps 10" Picture cards

Walking board Three cups to cover

Instructions

Before Administering the BSID – Motor Scale

- Clean the test materials to prevent infection to infants & toddlers.
- ❖ Arrange the test materials as per the Motor scale & chronological age of infant /toddler.
- * Keep the test materials out of infant's vision and reach for not distracting infant / toddler..
- * Make sure that primary care giver remains with infant till the test is accomplished for getting maximum cooperation and response of infant.

While administering the BSID

- ❖ Develop the rapport with infant /toddler before presenting Motor scale items.
- ❖ Keep the individual record form ready for the motor scale and fill up the background information on it.
- ❖ Make sure of the exact chronological age of infant / toddler and fix it before administering scale items.

- Start presenting test items from easy one to difficult ones.
- ❖ Give positive feedback in order to encourage and motivate infant / toddler to do the scale items well.
- Stop testing infant / toddler if not in good mood or bored. Later on continue testing infant whenever she/he get into good mood.
- * Mark each passed/completed item as infant / toddler performed it, mark if he/she failed to perform it and mark for the omitted items if any by over sight.
- ❖ Stop administering the test items if infant / toddler fails to perform 3 items consecutively.
- * Remember to thank and appreciate infant or toddler and his / her care giver for their cooperation

Scoring Procedure

Carefully record the completed motor scale items and also underline last scale item performed by the infant / toddler and note down the corresponding age placement (50^{th} percentile) which in turn denotes the motor age of infant / toddler. Use the formulae given below to calculate Motor quotient of infant / toddler.

Motor quotient =
$$\frac{\text{Motor age}}{\text{Chronological age}} \times 100$$

Motor Development Scale for Infants and Toddlers

Name	Age
Gender	Date
Tester's name	Time taken minutes

S.No.	Description of motor scale items	Test Performance	Age placement (50th percentile)
1	Lifts head at the shoulder		.5
2	Postural adjustment when held at shoulder		.5
3	Arms thrust in play		.5
4	Legs thrust in play		.5
5	Lateral head movements		.5
6	Turns from side to back		.6
7	Head erect and vertical, movement of head		.6
8	Crawls		.8
9	Retains red ring in hand		.8
10	Head erect and steady		1.4
11	Sits with support		1.7
12	Dorsal suspension –lifts head		1.9
13	In prone position elevates self by arms		1.9
14	Holds head steady		2.2
15	Hands predominantly opens		2.5
16	Sits with slight support		2.8
17	Holds cube: Ulner Palmar		3.0
18	Turns from back to a side		3.4
19	Head balanced		3.5
20	Makes effort to sit		4.2
21	Partial thumb opposition		4.7
22	Pulls to sitting position		4.9
23	Sits alone momentarily		4.97
24	Rotates wrist		4.9
25	Unilateral reaching out to things		5.1
26	Rolls from back to stomach		5.4
27	Attempts to secure pellet in hand		5.6
28	Sits alone (thirty seconds or more)		5.7
29	Pulls to standing position		6.1

S.	Description of motor scale items		est	Age placement
No.	Description of motor scare remis	Perfori	mance	(50th percentile)
30	Sits alone steadily			6.2
31	Sits alone- good coordination			6.5
32	Complete thumb opposition (Radial- digital)			6.5
33	Early stepping movements			6.6
34	Scoops pellets			6.6
35	Pre-walking progression			6.9
36	Pellet partial finger prehension			7.4
37	Raises self to sitting position			8.2
38	Combines cubes or spoons : midline			8.4
39	Stepping movements			8.4
40	Stands up by holding the furniture			8.5
41	Fine grasping of pellets			8.6
42	Does pat-a-cake; midline skill			9.4
43	Walks with help			9.7
44	Sits down			9.7
45	Stands alone			10.8
46	Aufstehn –I			12.3
47	Walks alone			12.5
48	Throws a ball			12.6
49	Walks sideways (moves)			13.4
50	Walks backwards (movement)			14.1
51	Stands on right foot with help			14.6
52	Walks on left foot with help			14.7
53	Walks upstairs with help		**	15.7
54	Walks down stairs with help			16.5
55	Tries to stand on a walking board/drawn lines on floor	·		18.9
56	Aufstehn II			20.4
57	Walks downstairs alone			23.9
58	Walks upstairs			24.4
59	Walks with one foot on board / drawn lines on floor			26.1
60	Stands on left foot alone			26.5
61	Stands on right foot alone			26.6
62	Walks on line: General directions		****	26.6
63	Stands on walking board with both feet			26.8
64	Jumps on floor, with both feet			28.7
65	Walks on tiptoes			29.5
66	Jumps from a low level chair			29.9+
67	Aufstehn III			29.9+

The seria	l number of th	ie last item done pro	perly	••
The corre	esponding mot	or age placement of	the last item perf	ormed by infant / toddler
М	otor quotient =	Motor age Chronological age	X 100	
Assessme	ent Report			
_				
_	······			
_				
Learning	g outcome			
_				
_				

Assessment of IQ of Children With Raven's Coloured Progressive Matrices

Objective

To get oriented to Raven's coloured progressive matrices (RCPM) test, administration, scoring and interpretation for assessing child's intellectual development

Introduction

RCPM is used for assessing intellectual development/ mental age as well as perceptual capabilities of children for clinical work. It can work satisfactorily with normal children in addition to children who do not speak any language, children suffering from physical disabilities, cerebral palsy, aphasia, hearing/ speech problems etc. The RCPM makes it possible to explore the psychological significance of observable discrepancies between a person's present capacities for productive thinking and his/her recall of information. RCPM is designed to accurately assess a person's present clarity of observation and level of intellectual development

Requirements

RCPM booklet

Manual

Record form

Pencil

Instructions for administering RCPM test

First through preliminary interview, collect information about child's background and fill up the record form. The tester need to open the booklet for giving clear instructions to the client about A set of problems and say that "Look at this picture". A part of it is cut. That piece is mixed up, and is present in the six options given below. You have to choose the right option either by showing it or saying the option number. The problems are arranged from simple to complex type. You are required to complete A set problems, move to Ab set problems and later move to B set problems. If you require break, feel free to take it. There is no time limit but you have to respond as fast as possible. Compare the replies/responses of the client with the scoring key provided in the manual and calculate the right responses. These responses (raw score) need to be converted into mental age as per the table given in the manual.

$$IQ = \frac{Mental age}{Chronological age} X 100$$

Record Form Coloured Progressive Matrices

Model Case Study

1 Child's name : Sameer

2 Date of birth: 22.09.2010

3 Age: 7 yrs

4 Family background

Father's occupation : Clerk

Mother's Occupation : Teacher

Type of Family : Nuclear

Blood type and group : B+

Record Form

S.No.	1	A	S.No.	A	В	S.No.		В
	Response	Score		Response	Score	3.110.	Response	Score
1	4	1	1	4	1	1	2	1
2	5	1	2	5	1	2	6	1
3	2	0	3	1	1	3	3	0
4	2	1	4	6	1	4	2	1
5	6	1	5	2	1	5	1	1
6	5	0	6	4	0	6	3	1
7	6	1	7	2	0	7	6	0
8	2	1	8	4	1	8	6	1
9	1	1	9	6	1	9	4	1
10	3	1	10	2	0	10	5	0
11	2	0	11	2	0	11	4	0
12	5	1	12	2	1	12	4	0
	Total	09		Total	08		Total	07

Total raw score is (A + AB + B) = 09 + 08 + 07 = 24

$$IQ = \frac{Mental age}{Chronological age} X 100$$

$$IQ = \frac{10 \text{ yrs}}{7 \text{ yrs}} \times 100$$

$$IQ = 121$$

IQ range is 120 - 130

Interpretation / Assessment Report

Mstr Sameer's IQ range is 120 -130, which means his intellectual development is very superior.

Coloured Progressive Matrices

Case Study

1	Child's name:			
2	Date of birth:			
3	Age :	yrs		
4	Family backgr	ound		
	Father's o	ccupation	:	
	Mother's (Occupation	:	
	Type of Fa	ımily	:	
	Blood type	e and group	:	

S.No.	A	A		AF	3	S.No.	В	
	Response	Score	S.No.	Response	Score		Response	Score
1			1			1		
2			2			2		
3			3			3		
4			4			4		
5			5			5		
6			6			6		
7			7			7		
8			8			8		
9			9			9		
10			10			10		
11			11			11		V. 7 1 1 1 1 1
12			12			12		·····
	Total			Total			Total	

Total raw score is (A + AB + B) =

	IQ =	Mental age Chronological age	X 100
	IQ =	yrs X 100	
	IQ =		
	IQ ran	ge is	
Interpretation/ A	ssessm	ent Report	
No. of control of cont			
-			
Learning outcon	1e		

Assessment of Social Maturity of Children with Vineland Social Maturity Scale for Children (VSMS)

Objective

- To understand VSMS by getting oriented to the process of administration, scoring and interpretation of VSMS.
- To learn to assess social maturity of children by administering VSMS

Description

The Vineland's Social Maturity scale (Indian Adaptation by Malin A.J.) measures eight types of social capacities of an individual. It is suitable to newborn to 15 yrs old children. One can estimate social age (SA) and social quotient (SQ) of birth to 15 yrs old children. This SQ is highly correlated with IQ. The eight social areas are measured by this scale are Self help general (SHG) Self help eating (SHE), Self help dressing (SHD), Self direction (SD), Occupation (OCC), Communication (COM), Locomotion (LOM) and Socialization (SCC). VSM scale has total 89 test items. These are made into sub groups based on child's age range.

Age Group of Children

Birth - 15 yrs old children.

Instructions for Data Collection and Recording

- The tester must observe child's abilities through observation for a day based on the VSMS items and also by interviewing family members.
- He/ She may interview child's parents / caregivers for supplementing the information obtained through observation of the child.
- The tester must record child's responses on VSMS record sheet.
- Mark the items \checkmark as pass or completed by the child and cross \checkmark the items that are not completed by the child.
- Tester must given half credit if he/ she presume that child could have passed the item if the opportunity was given.
- Tester can convert half credit to full credit if it lies between two passed items of the check list of VSMS.

Scoring

Note down the last passed test item correctly and see the corresponding social age in the table of the manual.

Assessment Report of Social Maturity of Child

S.No	Social Areas	SA	SQ
1	Self help General		
2	Self help Eating		
3	Self help Dressing		
4	Self Direction		
5	Occupation		
6	Communication		
7	Locomotion		
8	Socialization		

Underline the last item passed by the child on VSMS

Calculate the corresponding social age of child based on passed item

Social Quotient (SQ) =
$$\frac{\text{Social Age (SA)}}{\text{Chronological Age (CA)}} \quad X \text{ 100}$$

Client's SQ is

Model Case study

Age: 1.6 yrs

Gender: Male

Name: Aarav Height: 82 cm

Weight: 12 kg

Residential Area: Parbhani

Address: Ramakrishna Nagar, Parbhani

Maternal Age: 26 yrs,

Education: MA

Occupation: Teacher

Paternal Age: 28 yrs

Education: BA

Occupation : Clerk

Family type: Extended

Last item passed on VSMS is: 38, Corresponding SA is: 2.6 yrs

Social Quotient (SQ) =
$$\frac{2.6}{1.6}$$
 X 100 = 162.5

Assessment Report: Mstr Aarav's SQ range is 160 - 170, which means his social development and competency is extraordinary or excellent

Case study	
1 Name :	
2 Age:	
3 Gender:	
4 Height: kg	
5 Residential Area :	
6 Address :	
7 Maternal Age: yrs Education:	Occupation:
Paternal Age : yrs Education :	Occupation:
8 Family type :	•
Last item passed on VSMS is:, Correspondent	onding SA is : yrs
Social Quotient (SQ) = X 100 =	
Client's SO is	
Client's SQ is	
Assessment Report	
•	
Learning outcome	

Vineland Social Maturity Scale for Children (Check List)

S.No.	Items	Marking				
		✓ or X				
Birth	Birth - 12 months					
1	Laughs					
2	Balances Head					
3	Grabs object with reach					
4	Reaches for familiar persons					
5	Rolls over (unassisted)					
6	Reaches for nearby objects					
7	Occupies self unattended					
8	Sits unsupported					
9	Pulls self upright					
10	"Talks" imitates sounds					
11	Drinks with thumb and finger					
12	Moves about on floor (creeping, crawling)					
13	Grabs with thumb and finger					
14	Demands personal attention					
15	Stands alone					
16	Does not drool					
17	Follows simple instructions					
12-2	4 Months					
18	Walks about room unattended					
19	Marks with pencil or crayon on paper					
20	Masticates (chews)solid or semi- solid food					
21	Removes shoes or sandals, pulls off socks					
22	Transfers objects					
23	Overcomes simple obstacles					
24	Fetches or carries familiar objects.					
25	Drinks from cup or glass unassisted.					
26	Walks or uses a go-card for walking					
27	Plays with other children					
28	Eats with own hands					
29	Goes about house or yard.					
30	Discriminates edible substances from not edibles.					
31	Uses names of familiar objects					
32	Walks up stairs unassisted.					

S.No.	Items	Marking		
		✓ or X		
33.	Unwraps sweets, chocolates.			
34.	Talks in short sentences.			
24-30	Months			
35	Signals to go to toilet.			
36	Initiates own play activities			
37	Removes shirt or frock if unbuttoned			
38	Eats with spoon/hands			
39	Gets drink (water) unassisted			
40	Dries own hands			
41	Avoids simple hazard			
42	Puts on shirt or frock unassisted (need not button)			
43	Can do paper folding			
44	Relates experiences			
36-4	3 Months			
45	Walks down stair one step at a time			
46	Plays co-operatively at kindergarten level			
47	Buttons shirts or frock			
48	Helps at little household task			
49	Perform" for other			
50	Washes hands unaided			
4-5 Y	<i>l</i> ears			
51	Cares for self at toilet			
52	Washes face unassisted			
53	Goes about neighborhood unattended			
54	Dresses self except for tying			
55	Uses pencil or crayon or or chalk for drawing			
56	Plays competitive exercise games			
5-6 \	5-6 Years			
57	Uses hoops, flies kites, or uses knife			
58	Prints (writes) simple words			
59	Plays simple games which require taking turns			
60	Is trusted with money			
61	Goes to school unattended			
6-7	6-7 Years			
62	Mixes rice "Properly" unassisted			
63	Uses pencil or chalk for writing			
64	Bathes self assisted			

S.No.	Items	Marking ✓ or X		
65	Goes to bed unassisted			
7-8	Years			
66	Can differentiate between A.M. & P.M.			
67	Helps himself during meals			
68	Understands and keeps family secrets			
69	Participates in pre-adolescent play			
70	Combs or brushes hair			
8-9 Y	/ears			
71	Uses tools or utensils			
72	Does routine household tasks			
73	Reads on own initiative			
74	Bathes self unaided			
9-1) Years			
75	Cares for self at meals			
76	Makes minor purchase			
77	Goes about home town freely			
10-	1 years			
78	Distinguishes between friends and playmates			
79	Makes independent choice of shops			
80	Does small remunerative work; makes articles			
81	Follows local current events			
11-1	2 Years			
82	Plays bit difficult games			
83	Can care for self or other if allowed to do it			
84	Enjoys reading books, newspapers, magazines			
12.	3 Years			
85	Plays bit difficult games			
86	Takes complete care of dressing and grooming			
87	Buys own clothing, accessories and material required			
88	Engages in social group activities			
89	Performs responsible routine chores at home and school			

Common Vocational and Recreational Interests of Adolescents

Objective	e					
To stu	To study the common vocational and recreational interests of adolescents					
Method						

Table 1 Common Vocational Interests Reported by the Adolescents

S.No.	Vocational Interests		Percentage of adolescents		
			Girls (n)	Boys (n)	
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

Discussion	n		
-			
		· · · · · · · · · · · · · · · · · · ·	

Table 2 Common Recreational Interests Reported by the Adolescents

S.No.	Recreational Interests	Percentage o	f adolescents
		Girls (n)	Boys (n)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

Discussio	n		
		-	
Learning	outcome		
_			
_			-
_			

Assessment of Emotional Maturity of Adolescents with Emotional Maturity Scale

Objectives

- To learn about how to administer Emotional Maturity scale, score and interpret the results
- To assess the emotional maturity of adolescents

Description of Emotional Maturity Scale

The Emotional Maturity Scale is developed by Yashvir Singh and Mahesh Bhargava. This scale consists of five broad factors of emotionality as mentioned below

1 Emotional Instability

The characteristics of this factor are lack of capacity to dispose problems, irritability, needing constant help for ones day today activities, stubbornness and temper tantrums.

2 Emotional Regression

The characteristics of this factor are feeling of inferiority, restlessness, hostility, aggressiveness and self-centeredness.

3 Social Maladjustment

The characteristics of this factor are lack of social adaptability, hatredness, boasting, lying and shirking of the responsibilities.

4 Personality Disintegration

The characteristics of this factor are phobias, rationalization, pessimism, immorality etc.

5 Lack of Independence

The characteristics of this factor are dependency and unreliability

EMS is a self reporting scale on a five point scale. There are total 48 statements. The statements of the scale are in question form demanding information for each statement in any of the five options i.e. very much (5), much (4), undecided (3), probably (2) and never (1) i.e. 5 point rating scale of scores need to be done by using its manual. Interpretations of scores need to be done by using its manual.

Categories of Emotional Maturity Score

Range of scores	Interpretation of emotionality
50-80	Extremely stable
81-88	Moderately stable
89-106	Unstable
107-140	Extremely unstable

Model Case Stud	lv
-----------------	----

1	Name: Namrata
2	Age: 18 yrs

3 Area of residence: Parbhani

4 Family background

Father's education M.Com, Ocupation: Bank officer

Mother's education B.Sc., B.Ed Occupation: Teacher

5 Type of Family: Nuclear

6 SES: Middle

Total Emotional Maturity Score 67

Interpretation / Assessment Report

Ms. Namrata's Emotional Maturity Score is 67, which means she is emotionally extremely stable.

Case Study

1	Name :	· -	
2	Age:yrs		
3	Area of residence:		
4	Family background		
	Father's education:	Occupation:	_
	Mother's education	Occupation:	
5	Type of Family:		
6.	SES:		

nterpretat	ion / Assessmo	ent Report		
_		-		
				
Learning o	outcome			

A Case Study of Adolescents on Gender Inequality Experienced by Them in Their Families

Objective

3

To conduct a case study of adolescents on gender inequalities experienced by them in their families Brief report of one's own unforgettable life experiences in family with regard to the gender inequality

•		
1	Name :	
2	Age : yrs	
3	Area of residence:	
4	Family background	
	Father's education:	Occupation:
	Mother's education	
5	Type of Family:	
6	SES:	
S.No.	Unforgettable experienc	ces in family with regard to the gender inequality
1		
Ī		
2		
H		

S.No.	Unforgettable experiences in family with regard to the gender inequality
4	
_	
5	
6	
7	
′	
8	
9	
10	
L	
Learn	ing outcome

Video Film on Gender Discrimination and Ill Effects of Female Infanticide

Objective

To view educational film Matrubhoomi: A Nation Without Women, for understanding the ill effects of female infanticide and gender discrimination on family and society

Introduction

The film on **Matrubhoomi**: A Nation Without Women is of Boney Kapoor and Shreedevi Kapoor. It is produced by Nicoles Blany, Patric Sobelmam and Punkej Kharabanda. It is written and directed by Manish Jha. It is a SMG-Ex Nihilo production. According to UNFPA and Ministry of Health and Family Welfare, in the last 100 yrs, more than 50 million girls were killed from the Indian population due to the malpractices related to gender discrimination and female feticide/infanticide.

	sues Understood Fi				
		PROBABILITY OF THE PROPERTY OF		· · · · · · · · · · · · · · · · · · ·	
		 	-		
·					
				···	
·					

8 .		-	 	
_				
9				
•				
10				
Lea	ning outcome	•		

Common Concerns and Issues of Senior Citizens

Objective

To interview at least 20 senior citizens (10 males and 10 females) for knowing their various concerns and issues encountered in leading life

Various Concerns and Issues of Female Senior Citizens

Concerns and Issues of Female Senior Citizens	Percentage of Female Senior Citizens (n-10)
General health	
Relationships with own children	
Financial	
Any Other	

arning outcome	
	· · · · · · · · · · · · · · · · · · ·

Research Designs for Studying Growth of Lab. Pre-Primary School Students

Objectives

- To take body measurements of at least 80 students and assessing their GQ
- To analyze the data on GQ of Lab. Pre-Primary School Students and categorize them based on the GQ ranges

Cross Sectional Child Study Method

Eighty Lab. Pre-Primary School students from each age group 2 - 3 yrs, 3 - 4 yrs, 4 - 5 yrs and 5 - 6 yrs are selected and their physical development is studied.

The background information of the Students

1 Sample size: 80

2 Gender of children: Male _____ Female ____

3 Area of residence: Urban

4 Family type: Nuclear ___ Extended ___ Joint ____

5 Age groups and number: 4 (2- 3 yrs- 10 children, 3-4 yrs-10 children, 4-5 yrs-10 children, 5-6 yrs-10 children)

6 Birth order: First born ____ Middle born ___ Last born ____

7 Food habits: Vegetarians ____ Non-veg ____

8 Study period: ______

Anthropometric Measurements of the Lab. Pre-Primary School Students

Age of students	Month and Year for	Average Body weight (KG)		Average Body height (cm)		Average head circumference (cm)	
and number	taking measurements	Male students (10)	Female students (10)	Male students (10)	Female students (10)	Male students (10)	Female students (10)
2 - 3 yrs (20)				,			
3 - 4 yrs (20)							
4 - 5 yrs (20)				-			
5 - 6 yrs (20)							

Details about the GQ of Lab. Pre-Primary School Students

GQ ranges	Category of growth	Percentage of Male students (40)	Percentage of Female students (40)
Above 110	Obese & Needs Immediate Care		
95- 105	Excellent		
90 - 95	Very Good		
85 - 90	Good		
80 - 85	Fair	·	
Below 80	Poor & Needs Immediate Care		

Findings		
Learning outcome		

Growth Quotient (GQ) Assesment Chart

Best Standards for Weight, Height and Head Circumference of Children

Child's		ht (kg)	Heigh	it (cm)	m) Head Circumfere	
Age	Boys	Girls	Boys	Girls	Boys	Girls
Birth	03.3	03.2	50.5	50.0	34.5	34.5
½ Yrs	07.8	07.2	67.8	65.9	43.5	39.5
	10.2	09.5	75.2	74.3	47.0	42.4
1 1 2	11.5	10.8	82.4	80.9	48.4	44.3
2	12.6	11.9	87.6	86.5	49.2	45.6
21/2	13.6	13.0	92.5	91.5	49.8	46.3
3 3½	14.0	14.0	96.0	95.0	50.0	47.0
$3\frac{1}{2}$	15.0	15.0	99.0	98.0	50.5	47.5
4	16.0	16.0	102.0	101.0	51.0	48.0
4 1/2	17.0	16.0	105.0	104.0	52.0	50.0
5	18.0	17.0	109.0	108.0	53.0	52.0
5 ½	19.0	18.0	112.0	111.0	53.0	52.0 52.0
6	20.0	19.0	116.0	114.0	53.0	52.0 52.0
61	21.0	20.0	118.0	117.0	53.5	52.5 52.5
7	22.0	21.0	121.0	120.0	54.0	52.5 53.0
7 1 2	23.0	22.0	124.0	123.0	54.0	53.0 53.0
8	25.0	24.0	127.0	126.0	54.0	53.0 53.0
81/2	26.0	25.0	129.0	129.0	54.5	54.5
9 9 1 9 2	28.0	28.0	132.0	132.0	54.5	54.5
9 ½	29.0	29.0	134.0	135.0	54.5	54.5 54.5
10	31.0	32.0	137.0	138.0	54.5	54.5
101	33.0	34.0	140.0	141.0	54.5	54.5 54.5
11	35.0	37.0	143.0	144.0	54.5	54.5 54.5
11 ½	36.0	38.0	146.0	147.0	54.5	54.5 54.5
12	39.0	41.0	149.0	151.0	54.5	54.5 54.5
121	40.0	42.0	152.0	154.0	55.0	55.0
13	45.0	46.0	156.0	157.0	55.0	55.0 55.0
131	47.0	48.0	159.0	158.0	55.0	
14	50.0	50.0	163.0	160.0	55.0	55.0 55.0
14 ½	53.0	52.0	163.0	161.0	55.5	55.0
15	56.0	53.0	169.0	162.0	55.5	55.0 55.0
15½	60.0	54.0	171.0	162.0	56.0	55.0
16	62.0	56.0	173.0	163.0	56.0	55.5 55.5
16½	64.0	56.5	174.0	163.0	56.5	5 5.5
17	66.0	57.0	176.0	163.0	56.5	55.5
17½	67.0	57.5	176.0	163.0	56.5	55.5
18	69.0	58.0	177.0	164.0	57.0	56.0
			ı	107.0	37.0	56.0

GQ formula

Weight % + Height % + Head Circumference %

3

GQ Ranges	Remarks
95 - 105	Excellent
90 - 95	Very Good
85 - 90	Good
80 - 85	Just Okay
Below 80	Very Poor Needs immediate care
Above 110	Obese Needs immediate care

Growth Quotient (GQ)

GQ helps in understanding child's growth, nutritional status and physical fitness

Percentage of Weight = Child's actual weight Standard weight to that age x 100



Developed by
Prof. Vishala Patnam
Child Development Scientist
VNMKV, Parbhani.

9822754922
vishala221959@gmail.com