

UNIVERSITY OF MUMBAI

No.UG 315 of 2004

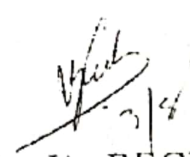
CIRCULAR

A reference is invited to the Ordinances, Regulations and Syllabi relating to the Master of Arts (M.A.) (Part I & II) degree course vide Pamphlet No.157 and the Head, University Department of Applied Psychology, the Principals of the affiliated colleges in the Faculty of Arts and the Director of the Institute of Distance Education, are hereby informed that the recommendation made by the Board of Studies in Psychology at its meeting held on 16th January, 2004 has been accepted by the Academic Council at its meeting held on 2nd April, 2004 vide item No. 4.54 and that in accordance therewith the modified syllabus in the subject of Psychology Paper II-Cognitive Psychology and Neuro Psychology at the M.A. Part I examination ~~is~~ as per Appendix and that the same has been brought into force with effect from the academic year 2004-2005.

Mumbai 400 032

2nd August, 2004

To,


for I.C. REGISTRAR

The Head, University Department of Applied Psychology, The Principals of the affiliated colleges in the faculty of Arts and the Director, Institute of Distance Education.

A.C. No.4.54 02.04.2004

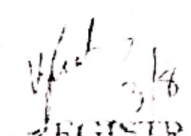
No.UG 315-A

of 2004

2nd August, 2004.

Copy forwarded with Compliment for information to :-

- 1) The Dean, Faculty of Arts.
- 2) The Chairman, Board of Studies in Psychology.


for I.C. REGISTRAR.

P.T.

UNIVERSITY OF MUMBAI



Syllabus for
Psychology Paper II
(Cognitive Psychology and Neuropsychology)
(M.A. Part - I)

Paper II: Cognitive Psychology and Neuropsychology: M. A. I

Objectives:

1. To acquaint students with the processes involved in cognition
2. To develop critical understanding about cognitive processes.
3. To help students to understand Neuropsychology of human behavior.
4. To develop understanding about the linkage between cognition and neuropsychology.

Section I:

Cognitive Psychology

1. Cognitive Psychology (5 Hrs)
 - a. Basic concepts, nature and scope.
 - b. Human information processing
 - c. Methods of studying cognitive psychology
2. Attention and Perception (5Hrs)
 - a. Attention: Theories, Functions of Attention, Attention and memory. Applications.
 - b. Perception: Theories, Mental Imagery, and Spatial Cognition.
 - c. Perceptual Motor Skills.
3. Cognitive Processes (8 Hrs)
 - a. Thinking and Reasoning. Problem Solving.
 - b. Memory: Sensory, STS and Working Memory, LTS. Ontogenic development of memory. Controversial Issues. Applications.
 - c. Language: Structure. Speech and language perception. Language acquisition.
4. Human and Artificial Intelligence (6Hrs)
 - a. Structure of Intelligence: Factor Analytic Approach.
 - b. Process of Intelligence: Information-Processing Approach
 - c. Integrative Approach
 - d. Artificial Intelligence
5. Cognitive Development (6 Hrs)
 - a. Piaget's Theory
 - b. Post-piagetan Research
 - c. Information Processing Approach
 - d. Vygotskey's Sociocultural Theory
 - e. RR Theory
6. Architecture of Mind. (8 Hrs)
 - a. Mental modules and modularity
 - b. Language modules
 - c. The connectionist approach
 - d. Progressive modularization and beyond modularity
 - e. Evolutionary Perspective
7. Individual, Gender, and Cross-Cultural Differences (6 Hrs)
 - a. Individual Differences
 - b. Gender Differences
 - c. Cross-Cultural Perspective
8. Metacognition. (6Hrs)
 - a. Metacognition
 - b. Metamemory
 - c. Development of metacognition
 - d. Issues in metacognition.

Section II:

Neuropsychology

1. Neuropsychology (6Hrs)
 - a. Definitions, history and scope of neuropsychology, methods to study neuropsychology.
 - b. Neuroanatomy
Structure and functions: Neurons, CNS, PNS, and Neurotransmitters.
 - c. Development of brain: Prenatal, Postnatal .
2. Neuropsychology of Attention (6 Hrs)
 - a. Subcortical structures influencing attention
 - b. Cerebral cortex and attention
 - c. Disorders of attention
3. Neuropsychology of perceptual processes (8Hrs)
 - a. Sensory systems: visual, auditory, chemical and kinesthetic senses.
 - b. Neuropsychology of perceptual motor skills
 - c. Disorders
4. Neuropsychology of memory: Physiological basis of LTM, STM, and working memory. Disorders of memory. Applications. (6 Hrs)
5. Language: Hemispheric specialization. Brain mechanisms of speech comprehension and production. Disorders. (7 Hrs)
6. Neuropsychological basis of higher order functions (6 Hrs)
7. Neuropsychological correlates of motivation and emotion
 - a. Emotion: Hypothalamus, Limbic system, amygdale, neocortex.
 - b. Motivation: Ingestive Behaviours(6 Hrs)
8. Applications of Neuropsychology (5 Hrs)
 - a. Neuropsychological Assessment
 - b. Rehabilitation

Books for study

1. Sternberg, R. J. (1999). *Cognitive psychology*. Fort Worth: Harcourt Brace College Publisher.
2. Best, J. B. (1995). *Cognitive psychology*. MN: West Publishing Co.
3. Zilmer, E. A. & Spears, M. V. (2001). *Principals of neuropsychology*. Canada: Wadsworth publisher.
4. Walsh, K. (1994). *Neuropsychology: A clinical approach*. N.D.: Churchill Livingston.

Books for references

1. Solso, (2004). *Cognitive psychology*. N.D.: Pearson Education.
2. Reed, S. K. (2000). *Cognition: Theory and applications*. Australia: Wadsworth.
3. Glass & Holyoak (1986). *Cognitive psychology*. N. Y.: Random house.
4. Matlin, M. W. (1995). *Cognition*. Banglore: Prism.
5. Green, D. W. (1996). *Cognitive science: An introduction*. Oxford: Blackwell.

6. Kellogg, R. T. (1997). *Cognitive psychology*. London: Sage.
7. Nelson, T. O. (1992). *Metacognition: Core readings*. Boston: Allyn & Becon.
8. Thagard, P. (1998). *Mind readings: Introductory selections on cognitive science*. Cambridge: MIT, Bradford.
9. Baddeley, A. (1990). *Human memory: Theory and practice*. Boston: Allan & Becon.
10. Carruther, P. & Chamberlain, A. (Ed.). (2000). *Evolution and the human mind: modularity, language and meta-cognition*.
11. Berry, J. W., Poortinga, Y. H., Segal, M. H., & Dason, P. R. (2002). *Cross-cultural psychology: Research and perspective*. Cambridge: CUP.
12. Carlson, N. (1999). *Physiology of behaviour*. Bostan: Allyn & Becon.
13. Pinel, J. P. J. (1997). *Biopsychology*. Bostan: Allyn & Becon.
14. Purves, D., Augustine, G. J., Fitzpatric, D., Katz, L. C., LaMantia, A. S., & McNamara, J. O. (1997). *Neuroscience*. Massachusetts: Sinauer Associates.
15. Finger, S. (1994). *Origin of neuroscience: A history of explorations into brain function*. N.Y.: OUP.
16. Beaumont, J. G., Kenealy, P. M., & Rogers, M. J. C. (Ed.). (1999). *The Blackwell dictionary of neuropsychology*. Oxford: Blackwell Publishers.
17. Johnson, M. H. (1997). *Developmental cognitive neuroscience*. Blackwell Publishers.
18. Lezak, M. D. (1976). *Neuropsychological assessment*. NY: OUP.
19. Franken, R. E. (2002). *Human motivation*. Australia: Wadsworth.
20. Wong, R. (2000). *Motivation: A biobehavioural approach*. Cambridge: CUP.
21. Lewis, M. & Haviland-Jones, J. M (Ed.). (2000). *Handbook of emotions*. NY: The Guilford Press.

Paper pattern:

Section I: 50 marks, Section II: 50 marks. 6 questions in all to be attempted (3 from each section)

Section I: 4 questions in all

40 marks:

- 3 questions of 20 mark each to be set (2 out of 3 to be attempted)
- For long questions two topics may be combined.

10 marks: 1 compulsory question of short note of 10 marks.

- Three short notes to be set. Five marks for each short note. 2 to be attempted out of 3.
- Short notes to be set from topics not covered in long questions

Section II: 4 questions in all

40 marks:

- 3 questions of 20 mark each to be set (2 out of 3 to be attempted)
- For long questions two topics may be combined.

10 marks: 1 compulsory question of short note of 10 marks.

- Three short notes to be set. Five marks for each short note. 2 to be attempted out of 3.
- Short notes to be set from topics not covered in long questions