

Long answer questions:

1. Describe the role of major schools of psychological thought in development of cognitive psychology?
2. Explain the contribution of philosophy, linguistics and artificial intelligence in the growth of cognitive psychology.
3. Describe how various research methods in cognitive psychology reveal empiricist and rationalist approaches to acquire knowledge.
4. Mention the important structures and functions of brain. Explain them.
5. Why is it important to find the localization of function in human brain? Give reasons.
6. Describe the functions of each cortical lobe and mention how a lesion in any of them might be discovered.
7. Mention any theory of attention and describe whether it is supported or defied by evidence from signal detection, selective attention or divided attention.
8. What are the major theories of visual search? Explain.
9. Design any experiment to study divided attention.
10. Describe the major monocular and binocular depth cues to perception.
11. Mention the bottom-up and top-down approaches to perception and explain them.
12. Describe the role of perception in learning, if any.
13. What are the characteristics of sensory, short term and long term memory?
14. Describe the three- stores model of the memory and compare it with any other alternate model.
15. Devise an experiment to study various aspects of implicit memory.
16. How information is encoded for both brief and long term memory storages? Compare.
17. What is the encoding specificity? Mention major supporting evidences for it.
18. Mention two proposed mechanisms by which we forget information. Compare them.
19. How mental imagery is equivalent to perception in terms of functions?

20. Mention the strengths and weaknesses of ERP studies?
21. Consider words and pictures as the external form of knowledge representations and explain their characteristics.
22. Describe the advantages and disadvantages of hierarchical models of knowledge representation.
23. Explain declarative and procedural knowledge with examples.
24. Mention the attributes of schema and compare any two schema models of your choice.
25. Discuss the six major characteristics of language.
26. Prove that both nature and nurture influence language acquisition.
27. How the unconventional meanings of ambiguous sentences can be figured out with the help of the phrase structure diagrams?
28. Explain the problem solving cycle with help of examples at every step.
29. Name various approaches to creativity and compare them.
30. Discuss the major qualities of expert problem solvers.
31. Discuss the heuristics and biases used by people in decision making.
32. Choose the most appropriate approach to conditional reasoning for explaining the available data. Give reasons for support of your answer.
33. Mention two logical arguments and logical fallacies linked with conditional reasoning, as in the Wason selection task.
34. Explain the stages of cognitive development proposed by Piaget.
35. Describe the differences between Piagetian theory and Vygotskian theory.
36. Mention the major physiological changes that go with cognitive development.