## 2015

Time: 3 hours

Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks. Answer from both the Groups as directed.

Group - A

(Objective-type Questions)

Answer all questions.

1.. Choose the correct answer of the following:  $2 \times 10 = 20$ 

Intelligence. is called the father of Artificial

- (i) James C Gosling
- (ii) Dennis Ritchie
- (iii) Alan Turing
- (iv) Isaac Newton

(Turn over)

ME - 16/2

ME - 16/2 (2) Contd.	(iv) Specific knowledge	(iii) Standard knowledge	(ii) Performance knowledge	(i) Meta-knowledge	know, called	(d) We also use knowledge about what we	(iv) Pusp-pop approach	(iii) Bottom up			(i) Pationalist	knowledge of mathematics and engineering.	(c) Theapproach uses the	(iv) Performance	(iii) Artificial knowledge		(ii) Meta-knowledge	(i) Knowledge	structures and interpretive procedures.	(b) In Al is a combination of data
(ii) Answering questions	(i) Recognizing objects	terms of cognitive tasks like:	(g) The goals of Al systems can be described in	· (iv) Specific knowledge	· (iii) Standard knowledge	(ii) Performance knowledge	(i) Meta-knowledge	processors.	our own performance as cognitive	(f) includes what we know about	(IV) Statistical arialysis		(iii). Human brain	(ii) Human Behaviour	(i) Functional Behaviour	by	exhibit intelligent characteristics expressed	designing intelligent computer systems that	(e) The Artificial Intelligence is concerned with	

ME - 16/2

(3)

(Turn over)

ME - 16/2 (4) Contd.	(iv) Communication System	(iii) Common system	(ii) Knowledge system	(i) Expert system	knowledge.	usually confined to a rather narrow field of	that is capable of reasoning but which is	(i) is computerized advice-giver,	(iv) a – False, b – True	(iii) a – False, b – False	(ii) a-True, b-True	(i) a-True, b-False	(b) Al is used for military purpose	exploration, robotics	(a) Al is used in diverse fields like space	(h) State whether the following is true or false:	(iv) All of the above	(iii) Manipulating robotic devices	
ME – 16/2 (5) (Turn over)	(b) What is agent in artificial Intelligence?	natural key?	3. (a) What is alternate, artificial, compound and	intelligence can be used?	(b) What are the various areas where artificial	networks?	2. (a) What is an artificial Intelligence Neural	$15 \times 4 = 60$	Answer any four questions of the following:	(Long-answer type Questions)	Group – B	(iv) Meta-level reasoning	(iii) Reasoning	(ii) Knowledge retrieval	(i) Knowledge Acquistion	complex way.	to what we already know in a psychologically	(j)involves relating something new	

- 4. (a) What is a Heuristic Functions?
- (b) What is "Generally" in Artificial Intelligence?
- (a) Mention the differences between breath first search and best first search in artificial intelligence.
- (b) What is FOPL ? Explain its role in Artificial Intelligence.
- 6. (a) In "Artifical Intelligence" where you can use the Bayes rule?
- (b) For building a Bayes model how many terms are required?
- 7. (a) While creating Bayesian Network what is the consequences between a node and its predecessors?
- (b) In top-down inductive learning methods how many literals are available? What are they?

- 8. (a) What is Hidden Markov Model (HMM) is used?
- (b) In artificial intelligence, what do sematic analysis used for?
- 9. (a) What is meant by compositional semantics?
- (b) Which algorithm in 'Unification and Lifting' takes two sentences and returns a unifier?

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ME-16/2(600)

(7)

BCA(III)/21A/15