

Reg. No.

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B.E. / B.TECH. DEGREE EXAMINATIONS, MAY 2023

Sixth Semester

OE18808- AI FOR ANDROID*(Information Technology)***(Regulation 2018)****TIME:3 HOURS****MAX. MARKS: 100**

COURSE OUTCOMES	STATEMENT	RBT LEVEL
CO 1	Identify appropriate AI methods to solve a given problem.	5
CO 2	Implement AI for game playing concepts.	4
CO 3	Recognize the basics of Android.	4
CO 4	Construct an application using Android.	4
CO 5	Employ AI for developing projects in Android.	5

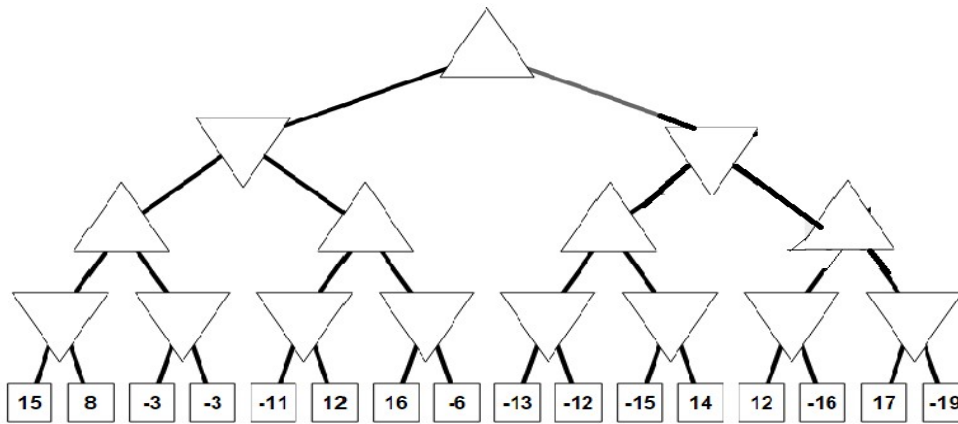
PART- A (10x2= 20Marks)

(Answer all Questions)

	CO	RBT LEVEL
1. Mention the importance of heuristic functions with few examples.	1	2
2. How is the success of the built intelligent program evaluated?	1	4
3. Differentiate DFS and iterative deepening.	2	4
4. Why is waiting for Quiescence for important?	2	3
5. List the components of Android application.	3	2
6. Why is Android Emulator used?	3	3
7. List the steps involved in sending/receiving a broadcast message.	4	2
8. Write the procedure for naming a thread.	4	3
9. How is AI used in monitoring the attendance system?	5	3
10. Mention the categories of recommendation system.	5	3

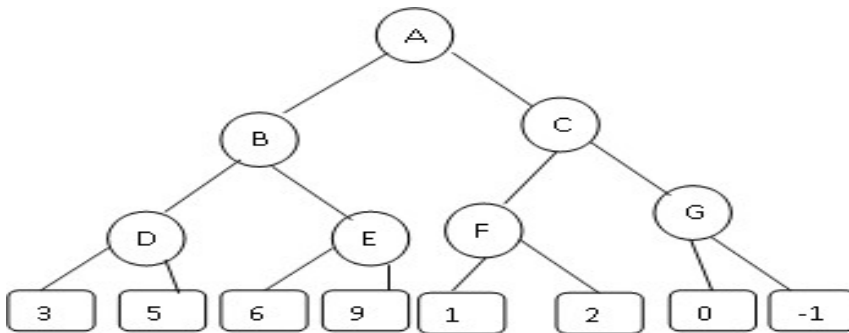
PART- B (5x 14=70Marks)

	Marks	CO	RBT LEVEL
11. (a) Analyze the various techniques in solving the Tic-Tac-Toe program with its data structures and algorithms.	(14)	1	4
(OR)			
(b) Analyze the problem characteristics of the following problems: (i) 8- puzzle problem (ii) Travelling Salesman Problem	(14)	1	4
12. (a) Consider the following game tree in which static scores are all from first player's point of view. Suppose the first player is the maximizing player, predict the move that should be chosen? Give the appropriate pseudo code for it.	(14)	2	3



(OR)

- (b) For the given game tree, use the alpha-beta pruning procedure to determine the nodes that need not be examined. Give the appropriate pseudo code. (14) 2 3



13. (a) Discuss the architecture of Android with a neat diagram. (14) 3 2

(OR)

- (b) Elaborate on the importance of documentation when exploring Android SDK and illustrate with few examples. (14) 3 2

14. (a) Illustrate exception handling for an Android application (14) 4 3

(OR)

- (b) Develop an Android application to illustrate how the battery level is monitored. (14) 4 3

15. (a) Use Android SDK to develop a chatbot. (14) 5 3

(OR)

- (b) Use Android SDK to develop a smart traveler system. (14) 5 3

PART- C (1x 10=10Marks)
(Q.No.16 is compulsory)

- | | Marks | CO | RBT LEVEL |
|--|-------|----|-----------|
| 16. You have an empty 4-litres and 3-litre bottle and you want to share 2-litres of apple juice to your friend in the 4-litres bottle. Design the production system and determine the solution steps for it. | (10) | 1 | 5 |
