B.VOC DEGREE REGULAR/REAPPEARANCE EXAMINATIONS, MARCH 2025

Sixth Semester

B.Voc Software Development and System Administartion

SDSS604 - ARTIFICIAL INTELLIGENCE

2018 Admission Onwards

C15F300C

Time: 3 Hours   Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What is PROLOG?

2. What is the significance of Turing test?

3. What are expert systems?

4. What is control strategy in production system?

5. What are predictable problems?

6. What are the basic search techniques?

7. What is common sense knowledge?

8. List the components of planning.

9. Define understanding.

10. Define neuron node.

11. What is pattern recognition?

12. How cmputer vision is applied in medical fields?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. List out some characteristics of systems which can be considered as part of inteligence?

14. How computer skills are superior than human?

15. Explain four examples for practical systems based on AI.

16. What are the activities to be performed to build an AI computational system?

17. How to represent an AI problem into four parts?

18. What is knowledge base? Explain.

19. Explain LISP.

20. What is learning?

21. List out some commercial practical applications of Artificial Neural Networks.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. What is Artificial Intelligence? Explain why do we need it.

23. Explain the following AI problems: (i) Tic-Tac-Toe problem (ii) 8-Queens problem.

24. Define knowledge. Explain the following: (i) knowledge acquisition (ii)knowledge repesentation (iii) knowledge engineering.

25. What are the salient features of learning? Explain any three learning methods.

(2×15=30)