

DEPT. OF MATHEMATICS
JHARGRAM RAJ COLLEGE
B.Sc(H) Sem – IV , INTERNAL ASSESSMENT-1st , 2018-19
Sub: MATHEMATICS, Course – SEC 2

Full Marks: 5

Time: 30 m.

Answer any two questions:

(2 × 2.5 = 5)

1. Define bipartite graph with an example.

2. Prove that in a graph the total number of odd degree vertices is even.

3. Determine the number of edges in a graph with two vertices of degree 4 and four vertices of degree 2. Also draw such a graph.

DEPT. OF MATHEMATICS
JHARGRAM RAJ COLLEGE
B.Sc(H) Sem – IV , INTERNAL ASSESSMENT-2nd , 2018-19
Sub: MATHEMATICS, Course – SEC 2

Full Marks: 5

Time: 30 m.

Answer any two questions:

(2 × 2.5 = 5)

1. Prove that in a tree, there are at least two pendant vertices.
2. Define centre of a graph with an example.
3. Show that the number of vertices in a binary tree is always odd.