

**DR KALAM POLYTECHNIC COLLEGE , AVANAM
DEPARTMENT OF CIVIL ENGINEERING
TRANSPORTATION ENGINEERING**

UNIT 1

QUS.NO QUESTIONS YEAR
PART A (TWO MARK QUESTIONS)

1. What is transportation?
2. Define right of way.
3. What is traffic survey?
4. What is arboriculture?
5. What are the classification of pavements?
6. Define liquid limit.
7. Write the necessities of curves.
8. Define road camber.
9. What are the phases of soil mass?
10. Define plastic limit.
11. state any one advantages of roads.

PART B (THREE MARK QUESTIONS)

1. Write short notes on development of road in India.
2. What are the objects of highway planning?
3. What are the advantages of super elevation?
4. What are the types of road signals?
5. Write the objects of road arboriculture.
6. What are the types of pavements?
7. What is sight distance?

PART C (TEN MARK QUESTIONS)

1. What are the different types of pavements? Explain with neat sketch. (OCT-14)
2. What are the causes of road accident? How will you prevent the accident? (APR-13)
3. Explain in detail about highway lighting and benefits. (APR-12)
4. Define camber and briefly explain the types of camber. (APR-12)
5. Define super elevation and mention the advantages of super elevation. (OCT-13)
6. Write short notes on (i) Nagpur plan (ii) Ribbon development (APR-14)
7. Explain any two types of sight distance with neat sketch. (APR-14)
8. What are the advantages of providing traffic signals?
9. How are the trees selected and located for a good highway landscaping? (OCT-14)
10. Define road intersection. Explain the different types of grade intersection with neat sketches. (APR-15)

UNIT 2

QUS.NO QUESTIONS YEAR

PART A (TWO MARK QUESTIONS)

1. Define highway alignment
2. Define project
3. What is surface dressing
4. What is meant by low cost road?
5. What is soil stabilization?
6. What do you mean by reconnaissance survey?
7. Define bitumen?
8. Write any two merits of concrete road?
9. How are the classified hill road?
10. What is alignment?
11. What is mend by low cost road?

PART B (THREE MARK QUESTIONS)

1. What is survey? Name the different types of survey.
2. What are the various types of road rollers?
3. Write any three methods of soil stabilization?
4. What are the factors to be considered in alignment?
5. In which circumstances retaining wall is constructed?

PART C (TEN MARK QUESTIONS)

1. Write down the various steps involved in the construction of WBM roads. (APR-11)
2. Write down the construction procedure of bituminous concrete road (APR-09)
3. Write short notes on: (a) Hairpin bend with neat sketch (b) Retaining wall with neat sketch (c) Breast wall with neat sketch. (OCT-10)
4. What are the various requirement of good sleeper? (APR-14)
5. Explain rail joint with neat sketch?
6. What are the requirements of an ideal rail? (OCT-13)

- Define plat laying explain the PQRS method of plat laying?
(APR-14)

UNIT 3
QUS.NO **YEAR**

PART A **(TWO MARK QUESTIONS)**

- Define check rail
- Define sleeper.
- Define hook fold.
- Define spikes.
- Define Gauges?
- Define examination pit?
- Define construction Gauges?
- Define rail joint?
- Define hooked rail?
- Name of the different method of welding?

PART B **(THREE MARK QUESTIONS)**

- What are the types of rail section?
- What are the different classifications of Indian road?
- What are the functions of ballast?
- Write shorts notes on functions of rail?
- Explain the three gauges?
- Explain coning or wells?
- Briefly describe about creep of rail?
- What are the necessities of maintenance to track?

PART C **(TEN MARK QUESTIONS)**

- Explain the various material used as a ballast in a railway truck?
(APR-12)
- Define creep of rail & mentions its causes?
(APR-14)
- Explain in detail about the various classifications of railway stations.
(OCT-14)
- Explain the different types of sleeper
(APR-14)

UNIT 4
QUS.NO **YEAR**

PART A **(TWO MARK QUESTIONS)**

- What is railway station?
- Define points and crossing.
- What is interlocking?
- Define railway yard.
- What is drop pits?
- What is road sign?
- What are the uses of triangle?
- Define switch?
- What are the object of signaling?
- What are the uses of weight bridge?

PART-B **(THREE MARK QUESTIONS)**

- What is railway station?
- Define ballast?
- What are the uses of sleepers?
- What are the different types of signaling?
- What is sand hump and road sign?
- What are the various methods of control movement?

PART-C **(TEN MARK QUESTIONS)**

- What is railway yard? What are the various types of yard? Explain each? (APR-14)
- What are the different methods of interlocking? Explain each with neat sketch (OCT-13)
- Explain in detail about the various classifications of railway stations (OCT-12)
- Explain any two method of controlling of movement of train? (OCT-13)
- Explain with neat sketch the different type of causeway? (APR-13)

6. Explain with neat sketch suspension bridge and steel arched bridge? (APR-13)

UNIT 5

QUS.NO **QUESTIONS** **YEAR**
PART-A (TWO MARK QUESTIONS)

1. Define abutment.
2. What is a coffer dam?
3. Write the purposes of bearings.
4. What do you mean by water way?
5. What is wing wall?
6. What is cause ways?
7. What is caisson?
8. Define bridge?
9. Write any three type of foundation?

PART-B (THREE MARK QUESTIONS)

1. What do you understand by scour and afflux?
2. Mention the function of bridge foundations.
3. What are the different types of piers?
4. Write the types of wing walls?
5. What is bearing?
6. Define economic span?

PART-C (TEN MARK QUESTIONS)

1. What are the causeways? Explain a high level causeway with a neat sketch. (Oct- 13)
2. What are the types of bearings used in a bridge? Explain any two types of bearings with a sketch.
3. What is coffer dam? Explain the different types of coffer dam with neat sketch (APR-14)
4. Write short notes on balanced cantilever bridge and bow-string girder bridge With a sketch? (APR-13)
5. Classify the road culvers according to the construction and explain? (APR-14)