



- Q.6 Surfacing is done by
- |                |                     |
|----------------|---------------------|
| a) Seal coat   | b) Surface dressing |
| c) Premix coat | d) All of above     |

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 What is full form of NHAI?  
Q.8 What is right of way?  
Q.9 Define Road alignment?  
Q.10 Name the type of road material.  
Q.11 Give two components names of flexible pavement.  
Q.12 Displacement of big mass of rock suddenly in hilly area due to rainfall is called \_\_\_\_\_.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Describe IRC classification of roads.  
Q.14 What is formation width? Draw a neat sketch.  
Q.15 Describe with sketch various parts of Flexible pavements.  
Q.16 Differentiate between tar and bitumen. (Any five)  
Q.17 Explain los-angeles abrasion test with their necessity.

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- Q.18 Differentiate between sub-base and base course.  
Q.19 Define the following terms – Runway, Apron and Hanger.  
Q.20 Enlist any five prevention measures for Land slides.  
Q.21 Draw typical X-section of hill road, partly in cutting and partly in fining.  
Q.22 Discuss the uses of dumpers in highway.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 What is hot mix plant? Discuss in details with neat and clean sketch.  
Q.24 What is CBR test? Discuss with neat and clear sketch.  
Q.25 What are the methods of construction of cement concrete roads? Discuss in detail with diagram.

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