Q) Calculate the apex distance,if the deflection angle is 60 degree and the degree of curve is 8 degree.

a) 33.26

b) 124.13

c) 215

d) 262.8

Q) Calculate the length (m) of the longer chord of 250m radius curve having deflection angle of 90 degree.

a) 250

b) 353.6

c) 392.7

d) 500

Q) The length of a transition curve depends on the rate of change of

a) centrifugal acceleration

b) distance

c) speed

d) tangential acceleration

Q) Which type of lens is used in internal focusing telescope?

a) concave lens

b) convex lens

c) negative lens

d) both concave lens and convex lens

Q) Theodolite is used for most of the following purposes except:

a) Measuring horizontal and vertical angles

b) prolonging survey lines

c) tacheometric surveying

d) measuring horizontal distance

Q) Which of the following materials falls under the category of rigid materials when checking the dampness of a material?

SSC JE 23-09-2019 (morning)

a) Cement concrete

b) Bitumen felts

c) Polythene sheets

d) Mastic asphalt

Q) The portions made by cutting standard bricks across their length are known as

Hariyana SSC JE Shift-I (10.04.2018)

a) Hearting

b) Perpends

c) Balts

d) Closers

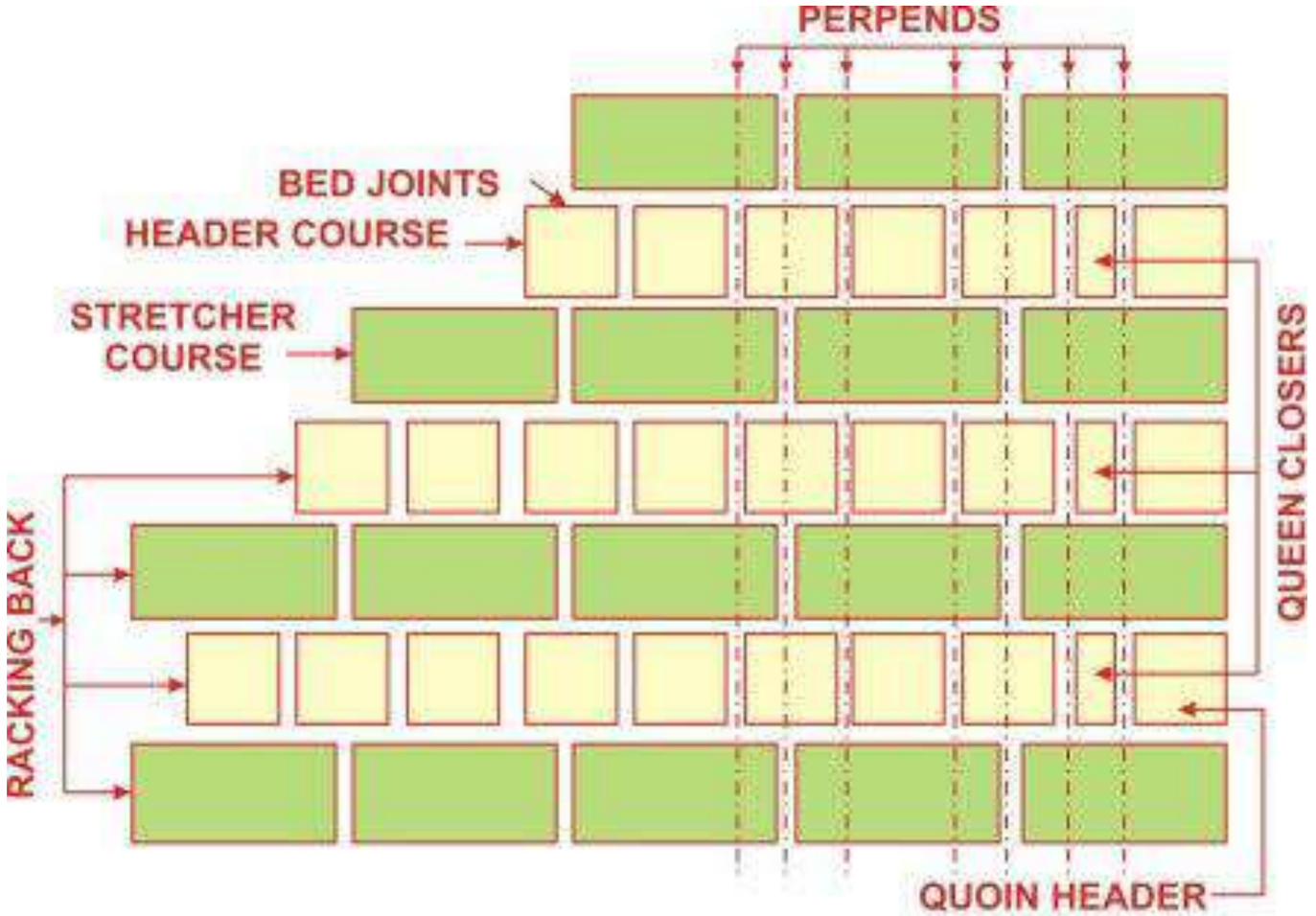


Fig. 2.1. Elevation of a wall.

Q) The vertical joints between bricks either in longitudinal or cross directions are termed as

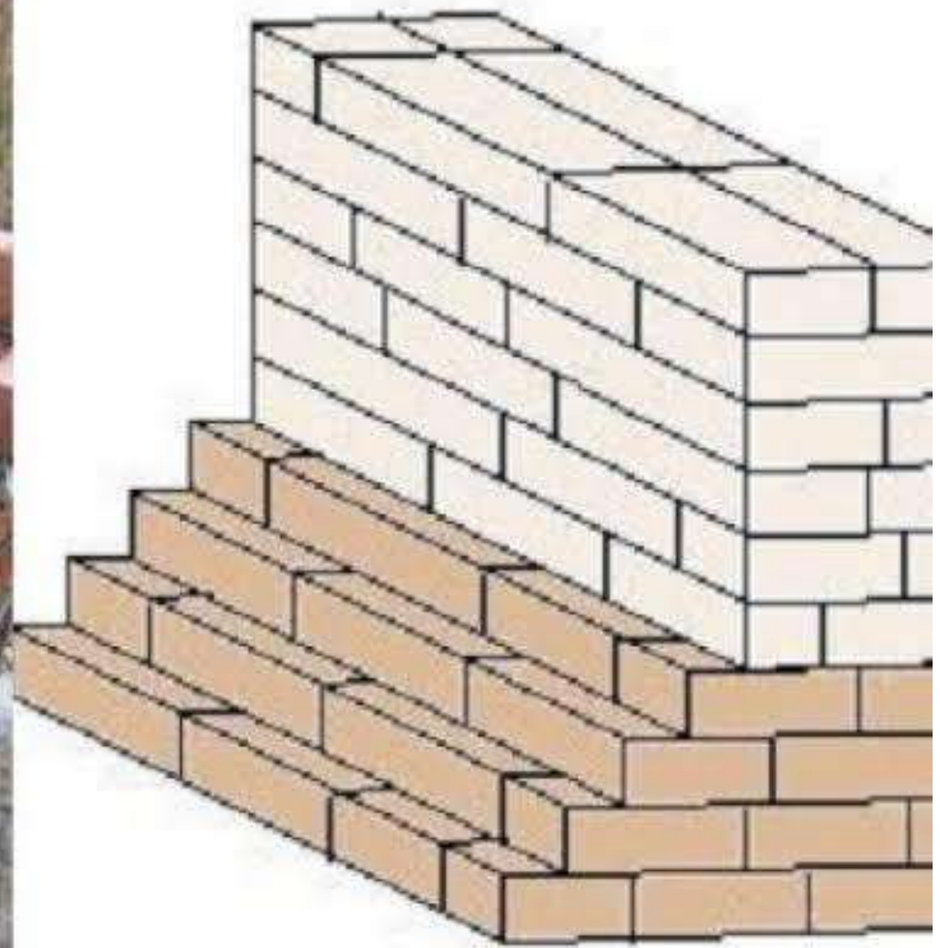
Hariyana SSC JE, Shift-II (11.04.2018) M.P. Sub Engg. Draftman 1 Sep 2018 9.00 am

a) Cross joints

b) Bed Joints

c) Perpends

d) Backing



Q) In case of rules for the deductions for brickwork, No deduction shall be made of :

Civil ESIC JE. 2019

a) Opening upto 1.5 m^2

b) Opening upto 0.1 m^2

c) Opening upto 2 m^2

d) Opening upto 1.1 m^2

Q) Steps which are normally triangular in shape are called

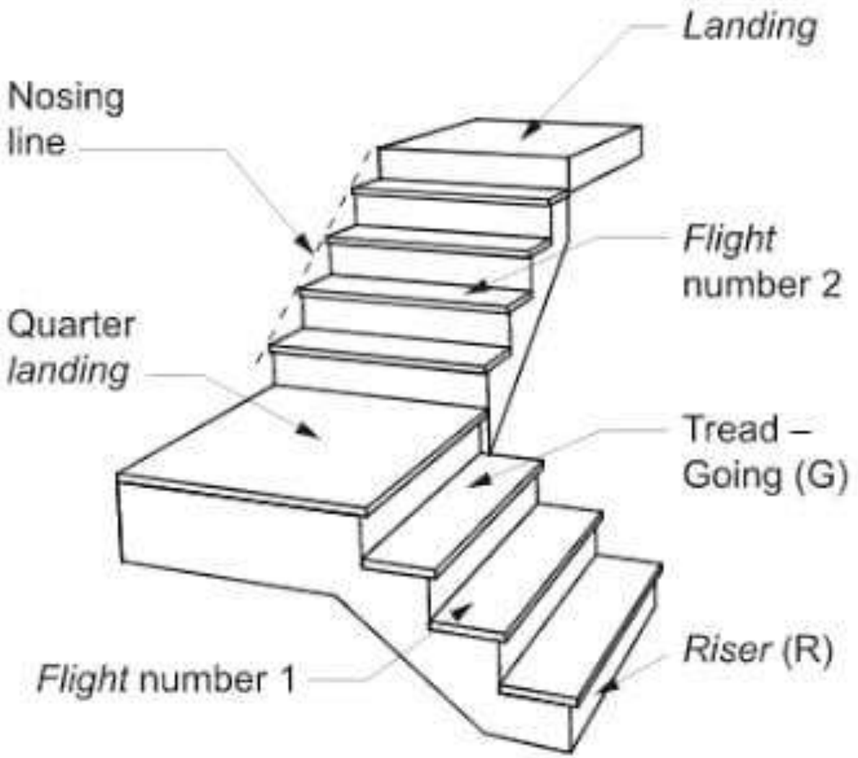
Rajasthan PSC 2018

a) Angular steps

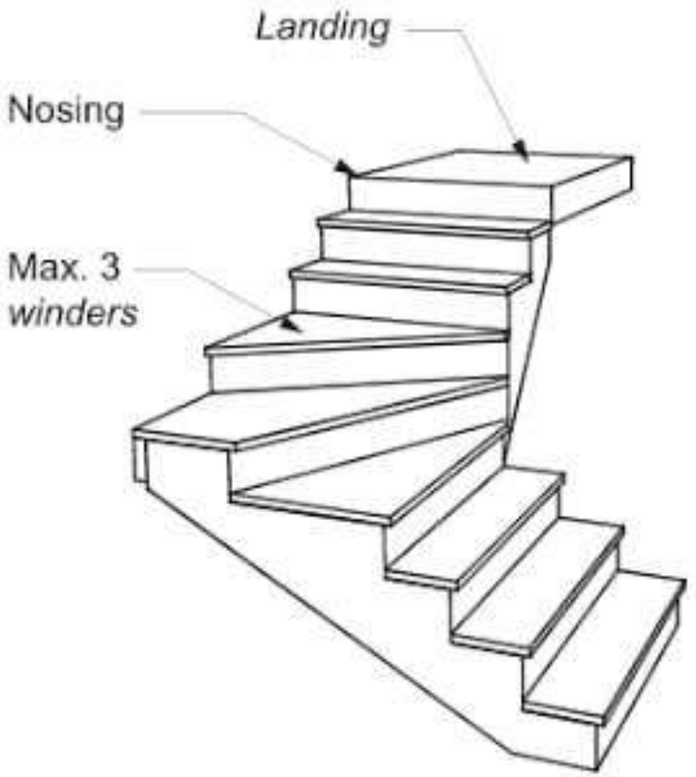
b) Radial steps

c) Winder

d) Spiral steps



(a) Quarter landing stairway – 2 flights



(b) Continuous stairway – 1 flight (90° change in direction)

Q) The road development plan for India for the period of 1981 to 2001 is also known as:

SSC JE 23.09.2019 (Morning Shift)

a) Lucknow plan

b) Kanpur plan

c) Nagpur plan

d) Bombay plan

Q) Division of the Indian roads into four classes as national highway, state highway, district roads and village roads was proposed by:

SSC JE 23.01.2018 (Morning Shift)

a) Pierre Tresaguet

b) National Transport Policy Committee

c) The Indian Roads Congress in 1934

d) The Nagpur Roads Plan

Q) In concrete pavements, the critical combination of stresses mid-day is:

Civil ESIC JE.2019

a) Load stress + warping stress

b) Load stress - warping stress - frictional stress

c) Load stress + warping stress - frictional stress

d) None of these

Q) The compressive strength of stone is found out by:

a) Attrition test

b) Crushing test

c) Hardness test

d) Impact test

Q) The target of achieving an overall density of road length in third year Road Development Plan (1981-2001) was

a) 32km/100km^2

b) 45.7km/100km^2

c) 82km/100km^2

d) 100km/100km^2

Q) Which of the following growth curves follows S-shape?

a) Poupulation

b) C.O.D.

c) B.O.D.

d) Conliform

Q) The water borne disease, cholera is transmitted by:

a) Entamoeba histolytica

b) salmonella typhae

c) vibrio cholera

d) giardia lamblia

Q) The prescribed water consumption for restaruants is

a) 100 litres per seat per day

b) 125 litres per seat per day

c) 70 litres per seat per day

d) 50 litres per seat per day

Q) Tintometer is used to measure

a) Hardness

b) Odour

c) Temperature

d) Colour

Q) Methemoglobinemia or blue baby is caused due to

a) Chlorides

b) Fluorides

c) Nitrates

d) Sulphides