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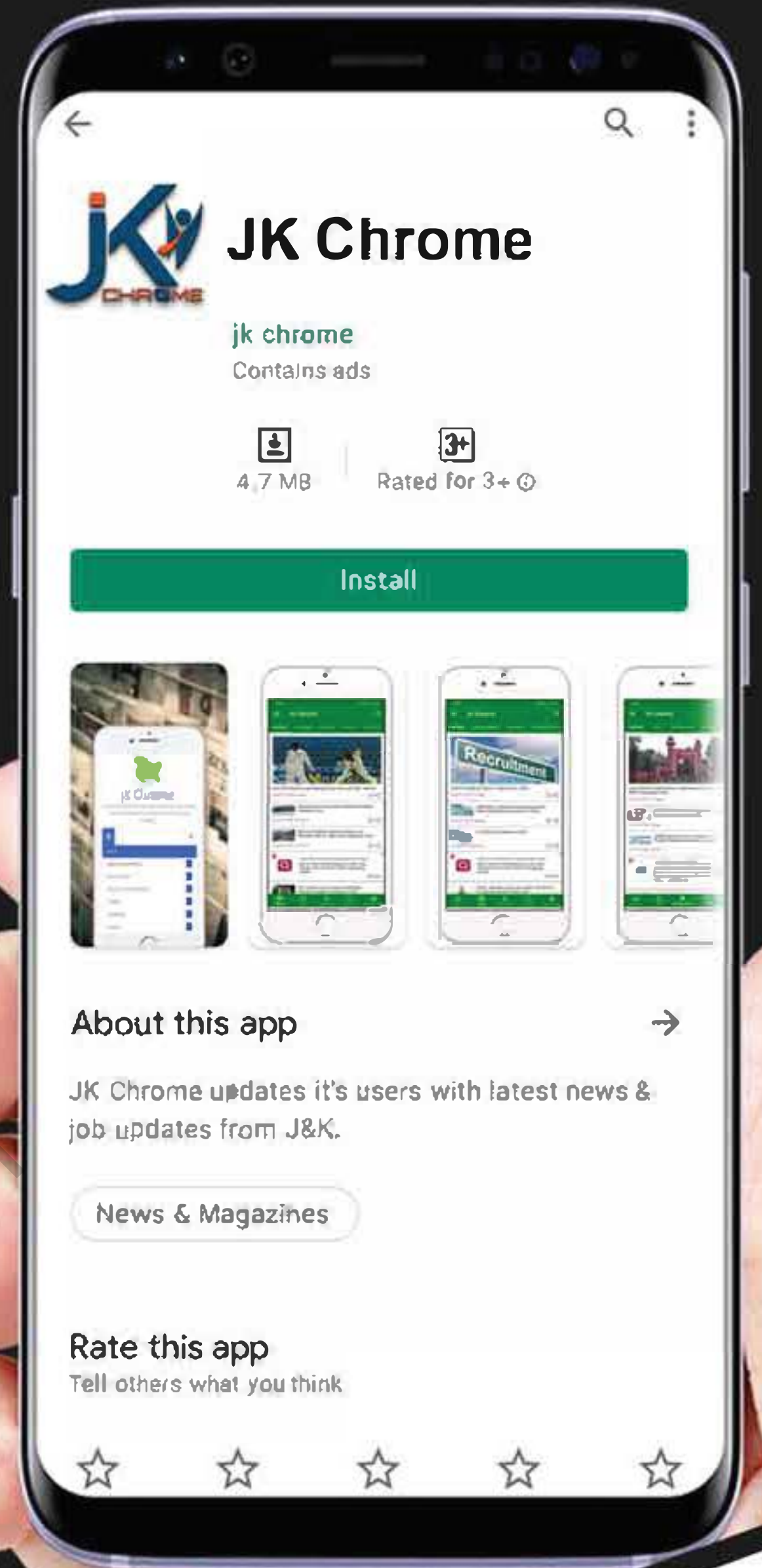
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STUDY MATERIAL



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Question No.1

Marks: 1.00

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In an underground profile, zone of aeration does not include:

- (A) **Ground water (Correct Answer)** (Chosen option)
 (B) Soil water
 (C) Capillary water
 (D) Free water

Question No.2

Marks: 1.00

Bookmark

For a simply supported beam, the maximum deflection will be at the _____

- (A) end
 (B) nearest to one end
 (C) **centre (Correct Answer)** (Chosen option)
 (D) below the support

Question No.3

Marks: 1.00

Bookmark

The average permeability perpendicular to the bedding planes in case of stratified soil deposits is determined using the formula:

- (A) $k_z = \frac{Z^2}{\frac{Z_1}{k_1} + \frac{Z_2}{k_2} + \dots + \frac{Z_n}{k_n}}$
- (B) $k_z = \frac{\frac{Z_1}{k_1} + \frac{Z_2}{k_2} + \dots + \frac{Z_n}{k_n}}{Z}$ (Chosen option)
- (C) $k_z = \frac{\frac{Z_1}{k_1} + \frac{Z_2}{k_2} + \dots + \frac{Z_n}{k_n}}{Z^2}$
- (D) $k_z = \frac{Z}{\frac{Z_1}{k_1} + \frac{Z_2}{k_2} + \dots + \frac{Z_n}{k_n}}$ (Correct Answer)

Question No.4

Marks: 1.00

The results obtained from the grain analysis is given below:

- < 2.0 mm - 90%
- < 0.65 mm - 60%
- < 0.073 mm - 30%
- < 0.007 mm - 10%
- < 0.002 mm - 02%

Based on the above results the soil can be classified as:

- (A) **Well graded (Correct Answer)**
- (B) Poorly graded
- (C) Uniformly graded
- (D) Gap graded

Question No.5

Marks: 1.00

Bookmark

Centre of gravity of a flat plate about y axis is:

- (A) $(\sum W_i x_i)/X$
- (B) $(\sum W_i x_i)/Y$
- (C) $(\sum W_i y_i)/W$ (Chosen option)
- (D) $(\sum W_i x_i)/W$ (Correct Answer)

Question No.6

Marks: 1.00

Bookmark

Which type of meter is used for measuring the velocity of flow across a cross-section whose area is known?

- (A) Displacement meter (Chosen option)
- (B) **Inferential meter (Correct Answer)**
- (C) Reciprocating meter.
- (D) Disc meter

Question No.7

Marks: 1.00

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A vehicle is moving on a two-lane highway with design speed of 65 kmph on a horizontal curve of radius 300 m. What is the required length of transition curve based on rate of introduction of super elevation? Consider width of pavement=7.5 m, rate of super elevation, $e=0.06$, rate of introduction of super elevation, $N=1$ in 150 and outer edge of the pavement is rotated with respect to centre line.

- (A) 63.75 m
- (B) 53.75 m
- (C) **33.75 m (Correct Answer)**
- (D) 43.75 m

Question No.8

Marks: 1.00

Bookmark

The circumferential stress is given by:

- (A) $\sigma = (p*d)/2t$ (Correct Answer) (Chosen option)
- (B) $\sigma = (p*d)/t$
- (C) $\sigma = (p*d)/3t$
- (D) $\sigma = (p*d)/4t$

Question No.9

Marks: 1.00

Bookmark

What is the ratio of the ultimate load to the working load?

- (A) Safe load
- (B) Buckling load
- (C) **Factor of safety (Correct Answer) (Chosen option)**
- (D) Crushing load

Question No.10

Marks: 1.00

Bookmark

VED analysis of inventory control stands for:

- (A) Value, Engineering and Desirable
- (B) Value, Essential and Desirable
- (C) **Vital, Essential and Desirable (Correct Answer)**
- (D) Value, Essential and Demand (Chosen option)

Question No.11

Marks: 1.00

Bookmark

In plate load test, the initial seating pressure applied before applying the actual load is:

- (A) 450 g/cm²
- (B) 300 g/cm²
- (C) **70 g/cm² (Correct Answer)**
- (D) 150 g/cm² (Chosen option)

Question No.12

Marks: 1.00

Bookmark

Conceptually, the switch angle is influenced by:

- (A) Length of tongue rail only
- (B) Heel divergence only
- (C) **Both (Heel divergence) and (length of tongue rail) (Correct Answer)**
(Chosen option)
- (D) Neither (Heel divergence) nor (length of tongue rail)

Question No.13

Marks: 1.00

Bookmark

Select the INCORRECT statement for the water-cement ratio.

- (A) Strength of concrete is inversely proportional to water-cement ratio.
- (B) Excess water-cement ratio results in the segregation of aggregates from cement paste.
- (C) Minimum quantity of water should be used to have reasonable degree of workability in concrete.
- (D) **Water-cement ratio affects only the strength of concrete not the quality and durability. (Correct Answer) (Chosen option)**

Question No.14

Marks: 1.00

Bookmark

For obtaining good quality undisturbed soil samples, the area ratio should be _____

- (A) greater than 10%
- (B) greater than 25%

(C) less than 25%

(D) **less than 10% (Correct Answer)** (Chosen option)

Question No.15

Marks: 1.00

Bookmark

A border strip is to be irrigated by a stream with discharge of 0.05 cumec. If average infiltration rate is 6 cm/hr, the maximum area of strip that can be irrigated in hectare is:

(A) 0.6

(B) 0.5

(C) 0.4

(D) **0.3 (Correct Answer)** (Chosen option)

Question No.16

Marks: 1.00

Bookmark

A vehicle is traveling with a design speed of 80 Kmph on a horizontal curve of radius 200 m and coefficient of lateral friction is considered as 0.15. What is the super elevation if full lateral friction is assumed to develop?

(A) 0.07

(B) 0.09

(C) **0.1 (Correct Answer)**

(D) 0.08

Question No.17

Marks: 1.00

Bookmark

What will be the value of Drag coefficient in sphere when Reynold number = 10^6 ?

(A) 0.18

(B) **0.12 (Correct Answer)**

(C) 0.52

(D) 0.41

Question No.18

Marks: 1.00

Bookmark

The diameter of a link of a survey chain made up of galvanized mild steel wire is

(A) **4 mm (Correct Answer)**

(B) 8 mm (Chosen option)

(C) 10 mm

(D) 6 mm

Question No.19

Marks: 1.00

Bookmark

Mechanics of deformable bodies is further classified as:

(A) **Theory of elasticity and plasticity (Correct Answer)** (Chosen option)

(B) Theory of plasticity

(C) Thermodynamics

(D) Theory of elasticity

Question No.20

Marks: 1.00

Mechanical efficiency of pump is:

- (A) $n_m \frac{P_{mech\ loss}}{p}$
- (B) $n_m \frac{p - P_{mech\ loss}}{p^2}$
- (C) $n_m \frac{p + P_{mech\ loss}}{p}$
- (D) $n_m \frac{p - P_{mech\ loss}}{p}$ (Correct Answer) (Chosen option)

Question No.21

Marks: 1.00

Bookmark

How can tile drainage help to increase crop yields?

- (A) **Increases Volume of Soil (Correct Answer)**
- (B) Increases Water Table Level (Chosen option)
- (C) Decrease Air Circulation
- (D) Increases Free Gravity Water

Question No.22

Marks: 1.00

Bookmark

The Indian Roads Congress (IRC) recommends the ideal shape of transition curve is

- (A) lemniscate
- (B) **spiral (Correct Answer) (Chosen option)**
- (C) cubic parabola
- (D) circular

Question No.23

Marks: 1.00

Bookmark

Canal head work is provided at:

- (A) Boulders stage of the river
- (B) **Trough stage of the river (Correct Answer)**
- (C) Not at all in the river (Chosen option)
- (D) Rock stage of the river

Question No.24

Marks: 1.00

Bookmark

For a continuous beam bending moment coefficient at center of interior span is (when only dead load is considered) _____

- (A) -1/10
- (B) +1/12
- (C) +1/10 (Chosen option)
- (D) **+1/16 (Correct Answer)**

Question No.25

Marks: 1.00

Bookmark

What is the strain value for failure in direct compression?

- (A) 0.45f_{ck}

- (B) 0.0035 (Chosen option)
(C) 0.2
(D) **0.002 (Correct Answer)**

Question No.26

Marks: 1.00
Bookmark

A concrete beam is post tensioned by a cable carrying a prestress of 1000 N/mm^2 . At jacking end slip was observed to be 9 mm. Find the percentage loss of stress due to anchorage slip if length of beam is 15 m. $E_s=210 \text{ KN/mm}^2$.

- (A) 15%
(B) 21%
(C) 17%
(D) **12.6% (Correct Answer)**

Question No.27

Marks: 1.00
Bookmark

Which one of the following is the CORRECT tool to bend the rails for track maintenance?

- (A) Rail tong
(B) Wire Claw
(C) **Jim Crow (Correct Answer)** (Chosen option)
(D) Crowbar

Question No.28

Marks: 1.00
Bookmark

In Prandtl's mixing length theory, u' and v' are assumed to be

- (A) **different (Correct Answer)**
(B) separate
(C) same (Chosen option)
(D) co-planner

Question No.29

Marks: 1.00
Bookmark

_____ is the Vee-Bee for concrete of very low workability.

- (A) 2 - 5 sec
(B) Above 20 sec (Chosen option)
(C) 5 - 10 sec
(D) **10 - 20 sec (Correct Answer)**

Question No.30

Marks: 1.00
Bookmark

Express the following in N/mm^2

- a) 1.5m of Hg
b) 8.5 m of water

- (A) $P_{\text{Hg}} = 0.200124 \text{ N/mm}^2$, $P_{\text{H}_2\text{O}} = 0.083385 \text{ N/mm}^2$
(B) $P_{\text{Hg}} = 200124 \text{ kn/mm}^2$, $P_{\text{H}_2\text{O}} = 8431 \text{ N/mm}^2$
(C)

$$P_{H_3} = 247 \text{ N/m}^2, P_{H_{2o}} = 9.81 \text{ N/m}^3$$

- (D) $P_{H_3} = 0.200124 \text{ N/mm}^2, P_{H_{2o}} = 0.083385 \text{ N/mm}^2$ (Correct Answer) (Chosen option)

Question No.31

Marks: 1.00

Bookmark

The body in which deformation can be neglected in the analysis, is called _____ body.

- (A) frictional
(B) rigid (Correct Answer) (Chosen option)
(C) plane
(D) rough

Question No.32

Marks: 1.00

Bookmark

The percentage amount of earnest and security money are _____ and _____ of total project cost.

- (A) 2% and 10% (Correct Answer) (Chosen option)
(B) 10% and 1%
(C) 10% and 2%
(D) 1% and 10%

Question No.33

Marks: 1.00

Bookmark

If the unit weight and ultimate bearing capacity of the soil are 16.5 kN/m^3 and 307 kN/m^2 respectively, then the net ultimate bearing capacity of the soil for the depth of foundation 1 m is _____ kN/m^2 .

- (A) 220.22
(B) 327.2
(C) 180
(D) 290.5 (Correct Answer) (Chosen option)

Question No.34

Marks: 1.00

Bookmark

Which of the following statements does NOT represent the characteristic of the PERT technique?

- (A) PERT technique is suitable for the scheduling of Research and Development work.
(B) PERT is an activity-oriented technique. (Correct Answer) (Chosen option)
(C) PERT has no use of dummy activities.
(D) PERT can manage uncertain activities of project.

Question No.35

Marks: 1.00

Bookmark

What is the minimum clear cover for column for mild exposure?

- (A) 20 mm
(B) 30 mm
(C) 25 mm
(D) 40 mm (Correct Answer) (Chosen option)

Question No.36Marks: 1.00
Bookmark

Which test may be carried out without the use of expert labour?

- (A) **Visual testing (Correct Answer)** (Chosen option)
(B) Dye penetrant testing
(C) Magnetic particle test
(D) Ultrasonic testing

Question No.37Marks: 1.00
Bookmark

The shortcoming of the coliform index or E. coli index has caused it to become obsolete and has been replaced by:

- (A) Manufacturer Part Number(M.P.N)
(B) **Most Probable Number(M.P.N) (Correct Answer)** (Chosen option)
(C) Message Packet Network(M.P.N)
(D) Material Part Number(M.P.N)

Question No.38Marks: 1.00
Bookmark

A concrete gravity dam having a maximum reservoir level at 200 m and the RL of the bottom of the dam 100 m. The maximum allowable compressive stress in concrete is 3000 KN/m² and the specific gravity of concrete is 2.4. Calculate the height of the dam and check whether it is a high dam or low dam.

- (A) H = 214.2 m High gravity dam
(B) **H = 90 m High gravity dam (Correct Answer)**
(C) H = 214.2 m Low gravity dam
(D) H = 90 m Low gravity dam

Question No.39Marks: 1.00
Bookmark

Factor of safety (FOS) against sliding is given as _____ if μ = coefficient of friction
 ϵ_{pv} = algebraic sum of vertical forces, ϵ_{ph} = sum of horizontal forces causing sliding.

- (A) $FOS = (\epsilon_{pv})/\epsilon_{ph}$
(B) $FOS = \epsilon_{pv}/(\mu\epsilon_{ph})$
(C) $FOS = (\mu \epsilon_{ph})/\epsilon_{pv}$
(D) **$FOS = (\mu \epsilon_{pv})/\epsilon_{ph}$ (Correct Answer)** (Chosen option)

Question No.40Marks: 1.00
Bookmark

A RCC column of size 400 × 400 mm has the longitudinal bars of 20 mm. What should be the pitch of lateral ties in this case?

- (A) 270 mm
(B) 400 mm
(C) **300 mm (Correct Answer)** (Chosen option)
(D) 250 mm

Question No.41Marks: 1.00
Bookmark

The ratio of change in dimension of the body to the original dimension is known as:

- (A) Shear stress
- (B) Shear strain
- (C) Stress
- (D) **Strain (Correct Answer)** (Chosen option)

Question No.42

Marks: 1.00
Bookmark

The maximum shear stress at the neutral axis for circular section is given by:

- (A) $1/2 \tau_{avg}$
- (B) $3/4 \tau_{avg}$ (Chosen option)
- (C) $2/3 \tau_{avg}$
- (D) $4/3 \tau_{avg}$ (Correct Answer)

Question No.43

Marks: 1.00
Bookmark

Which of the following admixtures is NOT an accelerating admixture?

- (A) Triethanolamine (Chosen option)
- (B) **Poly carboxylate (Correct Answer)**
- (C) Silica fume
- (D) Calcium formate

Question No.44

Marks: 1.00
Bookmark

Which one of the following expressions is correct as per the height of instrument is concerned?

- (A) Sum of BS - Sum of FS = First RL - Last RL
- (B) Sum of FS - Sum of BS = Last RL - First RL
- (C) **Sum of BS - Sum of FS = Last RL - First RL (Correct Answer)** (Chosen option)
- (D) Sum of FS - Sum of BS = First RL - Last RL

Question No.45

Marks: 1.00
Bookmark

Which one of the following is CORRECT as per the requirements of magnetic needle?

- (A) **Centre of gravity of needle should necessarily be below the pivot. (Correct Answer)** (Chosen option)
- (B) Needle should not necessarily be straight.
- (C) The ends of needle need not necessarily be in the same plane.
- (D) Needle should not necessarily be sensitive.

Question No.46

Marks: 1.00
Bookmark

In a siphon aqueduct, the worst condition of uplift on the floor occurs when:

- (A) **The canal is empty and the drainage full with the water table at drainage bed (Correct Answer)**
- (B) The canal is full and the drainage empty with water table below the floor
- (C) The canal is full and the drainage empty with the water table at drainage bed
- (D) The canal and drainage are flowing full

Question No.47

Marks: 1.00

Bookmark

A liquid weighs 15 KN and occupies 3.75 m³. Find its specific weight mass density and specific gravity.

- (A) $\gamma_w=18\text{Kn}\cdot\text{m}^3$, $\rho=407.74\text{kn}\cdot\text{m}^3$, $S=0.407$
- (B) $\gamma_w=4\text{Kn}\cdot\text{m}^3$, $\rho=567.74\text{kn}\cdot\text{m}^3$, $S=1.407$
- (C) $\gamma_w=10\text{Kn}\cdot\text{m}^3$, $\rho=507.74\text{kn}\cdot\text{m}^3$, $S=0.407$
- (D) $\gamma_w=4\text{Kn}/\text{m}^3$, $\rho=407.74\text{kn}/\text{m}^3$, $S=0.407$ **(Correct Answer)** (Chosen option)

Question No.48

Marks: 1.00

Bookmark

In mildly water scarce area, the drip irrigation could be preferred for growing:

- (A) Wheat
- (B) Fodder
- (C) Rice
- (D) **Fruits and vegetables (Correct Answer)** (Chosen option)

Question No.49

Marks: 1.00

Bookmark

If longitudinal strain is tensile, the lateral strains will be _____

- (A) shear
- (B) tensile
- (C) **compressive (Correct Answer)** (Chosen option)
- (D) axial

Question No.50

Marks: 1.00

Bookmark

In a pipe 400 mm diameter having a turbulent flow, the center line velocity is 8 m/s, and that at 60 mm from the pipe wall is 8 m/s. Calculate shear friction velocity.

- (A) $u_f = 7 \text{ m/s}$
- (B) **$u_f = 2.28 \text{ m/s}$ (Correct Answer)**
- (C) $u_f = 5.2 \text{ m/s}$
- (D) $u_f = 510 \text{ m/s}$

Question No.51

Marks: 1.00

Bookmark

Which one of the following options is NOT correct for permissible error in a detailed estimate?

- (A) Permissible error in area measurement is 0.01 sq.m
- (B) Permissible error in dimension measurement is 0.01 m
- (C) **Permissible error in all measurements is 2% (Correct Answer)** (Chosen option)
- (D) Permissible error in volume measurement is 0.01 cum

Question No.52

Marks: 1.00

By what value the bond stress of deformed bars is increased in tension?

- (A) 25%
- (B) **60% (Correct Answer)** (Chosen option)
- (C) 2 times of bond stress
- (D) 33%

Question No.53

Marks: 1.00

Bookmark

The force is completely specified only when one of the following characteristics are specified.

- (A) Point of application, line of action and direction
- (B) Magnitude, point of application, line of action
- (C) **Magnitude, point of application, line of action and direction (Correct Answer)** (Chosen option)
- (D) Magnitude, line of action and direction

Question No.54

Marks: 1.00

Bookmark

The first fully air-conditioned train is introduced between:

- (A) Bombay and Delhi
- (B) Hooghly and Delhi
- (C) Howrah and Hooghly
- (D) **Howrah and Delhi (Correct Answer)**

Question No.55

Marks: 1.00

Bookmark

Yellow light hand signal shows

- (A) stop
- (B) proceed
- (C) terminate
- (D) **proceed cautiously (Correct Answer)** (Chosen option)

Question No.56

Marks: 1.00

Bookmark

Which of the following surveys is conducted for work requiring high precision?

- (A) Plane table survey
- (B) Compass survey (Chosen option)
- (C) Chain survey
- (D) **Geodetic survey (Correct Answer)**

Question No.57

Marks: 1.00

Bookmark

Measurement book on construction site is mostly prepared by:

- (A) Executive Engineer
- (B) **Junior Engineer (Correct Answer)** (Chosen option)
- (C) Foreman
- (D) Chief Engineer

Question No.58

Marks: 1.00

Bookmark

What does the issuing of rocks and bonds result in the company?

- (A) Increase in equity
- (B) Decrease in cash
- (C) Increase in liabilities (Chosen option)
- (D) Increase in cash (Correct Answer)

Question No.59

Marks: 1.00

Bookmark

The total road length aimed at the end of the First Twenty Year Road Development Plan is _____

- (A) 25 Km per 100 square Km area of the country
- (B) 20 Km per 100 square Km area of the country
- (C) 16 km per 100 square km area of the country (Correct Answer) (Chosen option)
- (D) 32 Km per 100 square Km area of the country

Question No.60

Marks: 1.00

Bookmark

Which Cross Staff can be used to set up any angles (not just 90° and 45°)?

- (A) French Cross Staff (Chosen option)
- (B) Open Cross Staff
- (C) Adjustable Cross Staff (Correct Answer)
- (D) Vernier Cross Staff

Question No.61

Marks: 1.00

Bookmark

If the water content of the given soil sample is 12%, specific gravity = 2.7 and void ratio = 0.58. The degree of saturation of the soil is

- (A) 90%
- (B) 55.5% (Correct Answer) (Chosen option)
- (C) 47.5%
- (D) 31%

Question No.62

Marks: 1.00

Bookmark

If the two forces P and Q act at a point and the angle between the two forces be α , then the resultant is given by:

- (A) $\sqrt{P^2 + Q^2} + 3PQ\cos\alpha$
- (B) $\left[\sqrt{P^2 + Q^2} + 2PQ\cos\alpha \right]$ (Correct Answer) (Chosen option)
- (C) $\sqrt{P^2 + Q^2} + PQ\cos\alpha$
- (D) $\sqrt{P^2 + Q^2} + 0.5PQ\cos\alpha$

Question No.63

Marks: 1.00

Bookmark

Name the Alloys of iron and steel which are more resistant to corrosion than iron and steel alone.

- (A) Cobalt
- (B) Chromium, Copper and Nickel (Correct Answer) (Chosen option)
- (C) Boron
- (D) Manganese

Question No.64

Marks: 1.00

Bookmark

A cylindrical tank of 1.5 m diameter and height 0.75 m has a hemispherical dome. The tank contains oil of relative density 0.84. The dome is joined to cylinder position by four equally spaced bolts. If pressure gauge at point M, 0.3 m above base of tank read 50 kPa. Determine force each bolt.

- (A) 50 GPa
- (B) 15 N
- (C) 20 KN
- (D) 18.64 KN (Correct Answer)

Question No.65

Marks: 1.00

Bookmark

If the diameter of a long column is reduced by 20 %, the percentage of reduction in Euler's buckling load is

- (A) 36
- (B) 4
- (C) 49
- (D) 59 (Correct Answer) (Chosen option)

Question No.66

Marks: 1.00

Bookmark

Slope provided to the road surface in the transverse direction to drain off the rain water from the road surface is called

- (A) Curve widening
- (B) Road widening
- (C) Super elevation
- (D) Camber (Correct Answer) (Chosen option)

Question No.67

Marks: 1.00

Bookmark

Boussinesq's theory shear stress equation is expressed as:

- (A) $\tau_x = \frac{d\bar{u}}{dy}$
- (B) $\tau_x = \eta + \frac{d\bar{u}}{dy}$
- (C) $\tau_x = \eta \times \frac{d\bar{u}}{dy}$ (Correct Answer) (Chosen option)
- (D) $\tau_x = \eta$

Question No.68

Marks: 1.00

Transition curve provided on roads is mainly to:

- (A) introduce longitudinal gradient gradually.
- (B) drain off the rain water from the road surface.
- (C) increase the visibility at the curve.
- (D) **introduce centrifugal force gradually between the tangent point and the beginning of the circular curve. (Correct Answer) (Chosen option)**

Question No.69

Marks: 1.00

Bookmark

Which of the following techniques is NOT an inventory control technique?

- (A) VED Analysis (Chosen option)
- (B) HML Analysis
- (C) GOLF Analysis
- (D) **FTMN Analysis (Correct Answer)**

Question No.70

Marks: 1.00

Bookmark

Sheep-foot rollers are used for compacting:

- (A) Bitumen mixes
- (B) Fine sands
- (C) Non plastic silts
- (D) **Clayey soils (Correct Answer) (Chosen option)**

Question No.71

Marks: 1.00

Bookmark

Why the baffle are provided in-front outlet weirs?

- (A) **To hold back floating solids, grease and oil (Correct Answer)**
- (B) To remove finely divided colloidal matters from sewage
- (C) To minimize the loss of water head (Chosen option)
- (D) To maintain the drag force of the liquid resisting settlement

Question No.72

Marks: 1.00

Bookmark

Calculate the effective width of a continuous isolated T-beam of clear span 9 m, depth of flange 120 mm, width of web 400 mm and width of flange 1500 mm.

- (A) 2620 mm
- (B) 2172 mm
- (C) **1170 mm (Correct Answer)**
- (D) 1300 mm

Question No.73

Marks: 1.00

Bookmark

What are the two main causes of failure of hydraulic structure on the pervious foundation?

- (A) Overturning and uplift
- (B) **Undermining and uplift (Correct Answer) (Chosen option)**
- (C) Over turning and piping
- (D) Seepage and segregation

Question No.74Marks: 1.00
Bookmark

A Flow net can be utilized for the purpose of determination of

- (A) shear strength
- (B) **seepage (Correct Answer) (Chosen option)**
- (C) maximum dry density
- (D) lateral earth pressure

Question No.75Marks: 1.00
Bookmark

In which of the following cases, the two contour lines intersect each other?

- (A) For a pond
- (B) For a hillock
- (C) Steeper slope
- (D) **Overhanging vertical cliff (Correct Answer) (Chosen option)**

Question No.76Marks: 1.00
Bookmark

A fluid density 1200 kg/m^3 and viscosity 0.8 poise is flowing at rate of $10 \text{ m}^3/\text{min}$ in circular pipe of cross-section of 1 m^2 . Is the flow laminar or turbulent? Also find maximum velocity.

- (A) Transition, 0.33
- (B) Transition, 0.90
- (C) **Turbulent, 0.33 (Correct Answer)**
- (D) Laminar, 0.80

Question No.77Marks: 1.00
Bookmark

Which of the following estimates is considered the most reliable estimate?

- (A) Preliminary estimate
- (B) Plinth area estimate
- (C) **Detailed estimate (Correct Answer) (Chosen option)**
- (D) Cube rate estimate

Question No.78Marks: 1.00
Bookmark

The width of narrow gauge in India is:

- (A) **0.762 m (Correct Answer) (Chosen option)**
- (B) 1.676 m
- (C) 1.0 m
- (D) 0.610 m

Question No.79Marks: 1.00
Bookmark

Considering the Rs.800/- per day indirect cost, find the project cost while completing in 28 days and 29 days.

Table 1

Duration (days)	Minimum Direct Cost (Rs.)
22	75,300
23	74,200
24	73,300
25	72,500
26	71,450
27	70,900
28	70,350
29	69,950

- (A) **Rs. 92,750 and Rs. 93,150 (Correct Answer)**
- (B) Rs. 90,150 and Rs. 92,150
- (C) Rs. 90,150 and Rs. 93,150
- (D) Rs. 93,150 and Rs. 92,150

Question No.80

Marks: 1.00

Bookmark

The combined correction for curvature and refraction for a point located at 2 km distance is:

- (A) **0.2692 m (Correct Answer) (Chosen option)**
- (B) 0.1346 m
- (C) 0.01346 m
- (D) 0.02692 m

Question No.81

Marks: 1.00

Bookmark

A venturi meter was fitted in a pipe of 0.1 diameter where the pressure head was 10 m, and the max flow rate was $10 \text{ m}^3/\text{min}$. Find the diameter of the throat so that the pressure is always positive.

- (A) 9.01 m
- (B) 10 m
- (C) 0.01 m
- (D) **0.091 m (Correct Answer)**

Question No.82

Marks: 1.00

Bookmark

A two tier structure comprising laying of two pipe systems from drainage sewage and sullage in a building is ideal for _____, and less polluted sullage collected from the building is treated for re-supply for _____

- (A) pre-chlorination, washing utensil
- (B) water filtration, bathing
- (C) multiple elutriations, for cooking
- (D) **water recycling, toilet flushing (Correct Answer)**

Question No.83

Marks: 1.00

Bookmark

Which of the following can be a set of velocity components of 2D flow?

- (A) $U = 2X - Y^2, V = X^2 - 2Y$
(B) $U = XY, V = XY + Y$
(C) $U = X + Y, V = X - Y$ (Correct Answer)
(D) $U = X^2 + Y^2, V = 2XY$ (Chosen option)

Question No.84

Marks: 1.00
Bookmark

By which of the following plane table surveying methods, the two-point problem is solved?

- (A) Resection method (Correct Answer) (Chosen option)
(B) Radiation method
(C) Traversing method
(D) Intersection method

Question No.85

Marks: 1.00
Bookmark

Which of the following is not an external source of fund?

- (A) Loans from bank
(B) Private finance activities
(C) Assets of firms (Correct Answer)
(D) Payment by savings

Question No.86

Marks: 1.00
Bookmark

In case of symmetrical section, the neutral axis does pass through:

- (A) Geometrical Centre of the section (Correct Answer) (Chosen option)
(B) Bottom of the section
(C) Centre of the section
(D) Top of the section

Question No.87

Marks: 1.00
Bookmark

Who was the first Governor-General that laid down the first railway line in India?

- (A) Lord Lytton
(B) Lord Curzon
(C) Lord Dalhousie (Correct Answer) (Chosen option)
(D) Lord William Bentinck

Question No.88

Marks: 1.00
Bookmark

The main purpose of providing retaining walls at hill roads is:

- (A) To provide good drainage
(B) To provide adequate stability to the roadway and to the slope (Correct Answer) (Chosen option)
(C) To increase the visibility at curves
(D) To increase the speed at hill roads

Question No.89

Marks: 1.00

_____ is the sound power averaged over the time per unit area normal to the direction of propagation of the sound wave.

- (A) Frequency
- (B) **Sound Intensity (Correct Answer)** (Chosen option)
- (C) Sound pressure
- (D) Power of sound

Question No.90

Marks: 1.00

Bookmark

The hydraulic gradient of the soil sample having 6 cm height and 50 cm² cross sectional area under an effective constant head of 40 cm is _____

- (A) 4.3
- (B) **6.66 (Correct Answer)**
- (C) 1.9
- (D) 5.33

Question No.91

Marks: 1.00

Bookmark

The future period or the number of years for which a provision is made while planning and designing a water supply project is known as _____

- (A) **Design period (Correct Answer)** (Chosen option)
- (B) Rate of consumption
- (C) Rate of demand
- (D) Distribution system

Question No.92

Marks: 1.00

Bookmark

The Poisson's ratio of a material which has a Young's modulus of 120 GPa and shear modulus of 50 GPa is _____

- (A) **0.2 (Correct Answer)** (Chosen option)
- (B) 0.3
- (C) 0.1
- (D) 0.4

Question No.93

Marks: 1.00

Bookmark

In WSM, if the critical depth of neutral axis is equal to $k \times d$ where d is effective depth of beam, then what is the value of k for steel 500 and concrete M25?

- (A) 0.40
- (B) 0.48
- (C) **0.253 (Correct Answer)**
- (D) 0.46 (Chosen option)

Question No.94

Marks: 1.00

Bookmark

Calculate the absolute pressure of water at a depth of 10m from the free surface. (Take $P_{atm} = 101.213 \text{ KN/m}^2$)

- (A) 9810 KN / m² (Chosen option)

- (B) 1993. 13 N/ m²
(C) 199.313 KN / m² (Correct Answer)
(D) 199 KN/ m²

Question No.95

Marks: 1.00
Bookmark

Indian Railway Institute of Civil Engineering (IRICEN) is situated at:

- (A) Vadodara
(B) Nasik
(C) Lucknow (Chosen option)
(D) Pune (Correct Answer)

Question No.96

Marks: 1.00
Bookmark

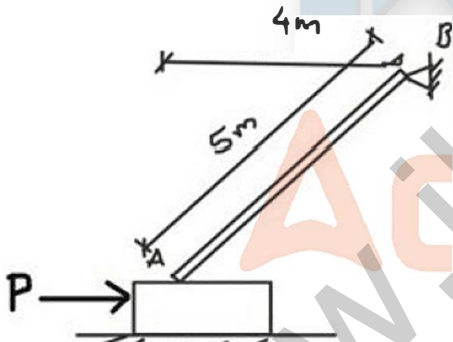
What is the initial setting time for Low heat Portland cement?

- (A) 30 min
(B) 60 min (Correct Answer) (Chosen option)
(C) 600 min
(D) 90 min

Question No.97

Marks: 1.00
Bookmark

A uniform bar of 5 m long weighing 300 N is hinged at B and rest upon a 500 N block at A. If the coefficient of friction is 0.3 at all contact surfaces, find the horizontal force P required to move the block.



- (A) 300 N
(B) 800 N
(C) 240 N (Correct Answer)
(D) 500 N

Question No.98

Marks: 1.00
Bookmark

When excess water in the concrete mix comes out causing small pores, it is called:

- (A) Drip
(B) Creep
(C) Bleeding (Correct Answer) (Chosen option)
(D) Scaling

Question No.99

Marks: 1.00

What should be the value of slump concrete used for beams and slabs?

- (A) **50 - 100 mm (Correct Answer) (Chosen option)**
 (B) 25 - 50 mm
 (C) 75 - 150 mm
 (D) 20 - 30 mm

Question No.100

Marks: 1.00

Bookmark

When the body immersed in the fluid does not come back to its original position from the slightly inclined displacement, such a state is called:

- (A) Stable equilibrium
 (B) Equilibrium
 (C) Neutral equilibrium
 (D) **Unstable equilibrium (Correct Answer) (Chosen option)**

Question No.101

Marks: 1.00

Bookmark

Which of the following inventory items is examined most frequently in the ABC inventory control system?

- (A) Out-of-stock items are inexpensive, used frequently, low cost with long delivery time.
 (B) Expensive, frequently used and high-cost inventory items with short delivery times.
 (C) **Expensive, frequently used items with high shipping costs and long delivery times. (Correct Answer)**
 (D) Expensive, frequently used and low-cost inventory items with short delivery times.

Question No.102

Marks: 1.00

Bookmark

Which one of the following is CORRECT standard dimension for the wooden sleeper when using in M.G tracks?

- (A) 1.73m × 20cm × 11cm
 (B) 1.93m × 20cm × 22cm
 (C) 1.87m × 24cm × 11cm
 (D) **1.83m × 20cm × 11cm (Correct Answer) (Chosen option)**

Question No.103

Marks: 1.00

Bookmark

If D_1 & D_2 are inside and outside diameters of the cutting edge then the Area ratio of the sampler is determined using the relation:

- (A) $\frac{D_2^2 - D_1^2}{2D_1^2} \times 100$
 (B) $\frac{D_2^3 + D_1^3}{D_1^2} \times 100$
 (C) $\frac{D_1^2 - D_2^2}{D_1^2} \times 100$

(D) $\left| \frac{D_2^2 - D_1^2}{D_1^2} \times 100 \right.$ (Correct Answer) (Chosen option)

Question No.104

Marks: 1.00

Bookmark

If 6 m^3 of a certain fluid weighs 48 KN, calculate the specific weight and specific gravity of the fluid.

- (A) **8000 N/m³ and 0.815** (Correct Answer) (Chosen option)
- (B) 8 N/ m³ and 0.815
- (C) 8000 N/m³ and 815
- (D) 8000 N/m³ and 81.5

Question No.105

Marks: 1.00

Bookmark

Gauge of railway track is the measure of:

- (A) Distance between webs of two rails
- (B) Distance between the outer face of rails
- (C) **Distance between the inner face of rails** (Correct Answer) (Chosen option)
- (D) Distance between center to center of rails

Question No.106

Marks: 1.00

Bookmark

Which one of the following is NOT the constituent of a dense graded bituminous mix?

- (A) **Cement** (Correct Answer) (Chosen option)
- (B) Fine aggregates and filler
- (C) Coarse aggregates
- (D) Bituminous binder

Question No.107

Marks: 1.00

Bookmark

_____ float is defined as the time through which an activity can be delayed without affecting the succeeding and preceding activities.

- (A) Total
- (B) Free (Chosen option)
- (C) **Independent** (Correct Answer)
- (D) Interfering

Question No.108

Marks: 1.00

Bookmark

Which one of the following is NOT a construction industry plan?

- (A) Time Plan
- (B) Material Plan
- (C) Manpower Plan
- (D) **Pension plan** (Correct Answer) (Chosen option)

Question No.109

Marks: 1.00

Bookmark

Which of the following expenses does NOT affect the cash book?

- (A) Telephone charges paid from the company's bank account (Chosen option)
- (B) Depreciation expenses (Correct Answer)
- (C) Cash paid to material suppliers
- (D) Cash receipts and cash payments

Question No.110

Marks: 1.00

Bookmark

The annual demand for window frames is 20,000. Each frame costs Rs. 400 and the order cost is Rs. 600 per order. Inventory holding cost is Rs. 50 per image per year. Calculate the economic order quantity.

- (A) 683 units (Correct Answer)
- (B) 670 units
- (C) 643 units
- (D) 605 units

Question No.111

Marks: 1.00

Bookmark

The conduits or pipe mains carrying water from the service reservoir to the distribution system should be designed:

- (A) for the coincident draft of water or the maximum hourly demand of water, whichever is more.
- (B) for the fire demand plus the coincident draft of water or the maximum hourly demand of water, whichever is more. (Correct Answer) (Chosen option)
- (C) for the fire demand plus maximum daily demand of water.
- (D) for domestic water demand plus the coincident draft of water, whichever is less.

Question No.112

Marks: 1.00

Bookmark

The IS code provision for conduction of standard proctor light compaction test is:

- (A) IS - 2720 - PART 5 -1985
- (B) IS - 2720 - PART 8 -1979
- (C) IS - 2720 - PART 7 -1983 (Correct Answer) (Chosen option)
- (D) IS - 2720 - PART 6 -1963

Question No.113

Marks: 1.00

Bookmark

Metacentric height is defined as $GM = BM + BG$. It's sign depends based on the conditions:

- (A) It is positive when G is lower than B It is negative when G is higher than B (Chosen option)
- (B) It is positive when G is lower than B And neutral when higher than B
- (C) It is positive when G is above B It is negative when G is higher than B
- (D) It is positive when G is higher than B It is negative when G is lower than B (Correct Answer)

Question No.114

Marks: 1.00

Bookmark

In the axis method of adjusting a traverse, the correction to any length is denoted as:

(A)

$$\text{that length} \times \frac{1}{2} \frac{\text{closing error}}{\text{length of axis}}$$

(Correct Answer) (Chosen option)

(B)

$$\text{that length} \times \frac{0.25 \times \text{closing error}}{\text{length of axis}}$$

(C)

$$\text{that length} \times \frac{0.75 \times \text{closing error}}{\text{length of axis}}$$

(D)

$$\text{that length} \times \frac{\text{closing error}}{\text{length of axis}}$$

Question No.115

Marks: 1.00

Bookmark

The length of road targeted in the Second Twenty Year Road Development Plan is:

- (A) 16 km per 100 square km area of the country
(B) 40 km per 100 square km area of the country
(C) 20 km per 100 square km area of the country
(D) **32 km per 100 square km area of the country (Correct Answer) (Chosen option)**

Question No.116

Marks: 1.00

Bookmark

Top of rails of a track is placed:

- (A) At an outward slope of in 1 in 20
(B) At an outward slope of 1 in 30
(C) **At an inward slope of 1 in 20 (Correct Answer) (Chosen option)**
(D) Horizontal

Question No.117

Marks: 1.00

Bookmark

What is the permissible limit for copper in water?

- (A) **0.05 mg/l (Correct Answer) (Chosen option)**
(B) 1.5 mg/l
(C) 5 mg/l
(D) 0.5 mg/l

Question No.118

Marks: 1.00

Bookmark

A groyne aligned perpendicular to the bank line is known as:

- (A) **Normal groyne (Correct Answer)**
(B) Attracting groyne
(C) Repelling groyne (Chosen option)

(D) Constant groyne

Question No.119

Marks: 1.00

Bookmark

If the whole circle bearing of a traverse line is between 270° to 360° , the signs of latitude and departure are:

- (A) - and - respectively
- (B) + and + respectively
- (C) - and + respectively
- (D) + and - respectively (Correct Answer) (Chosen option)

Question No.120

Marks: 1.00

Bookmark

According to Marston, the proportion of loads that will be transmitted to the sewer depends on which one of the following?

- (A) Self cleaning velocity
- (B) Depth to width ratio of trench and filling material (Correct Answer)
- (C) The depth of flow and the diameter of the pipe (Chosen option)
- (D) Types of slopes

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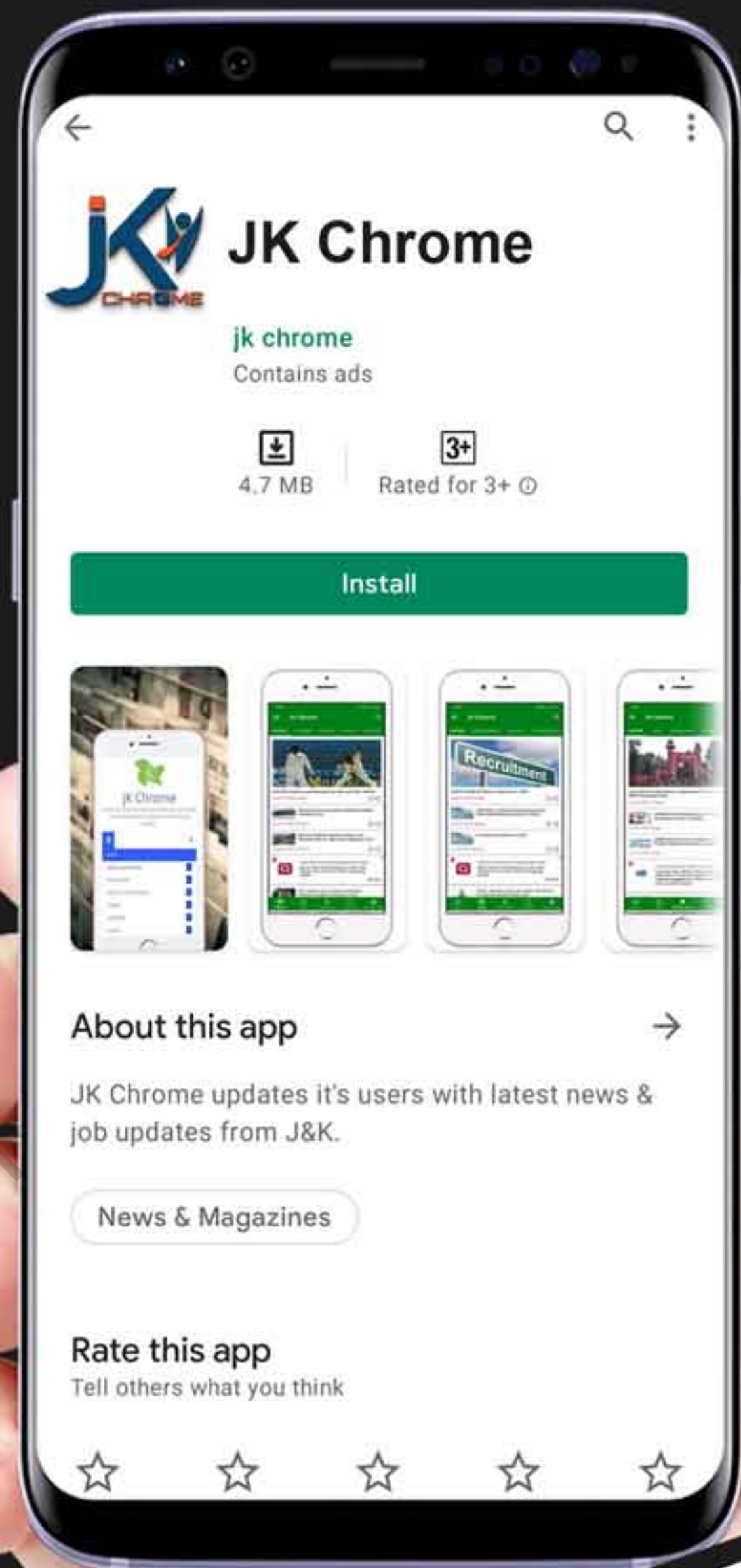
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