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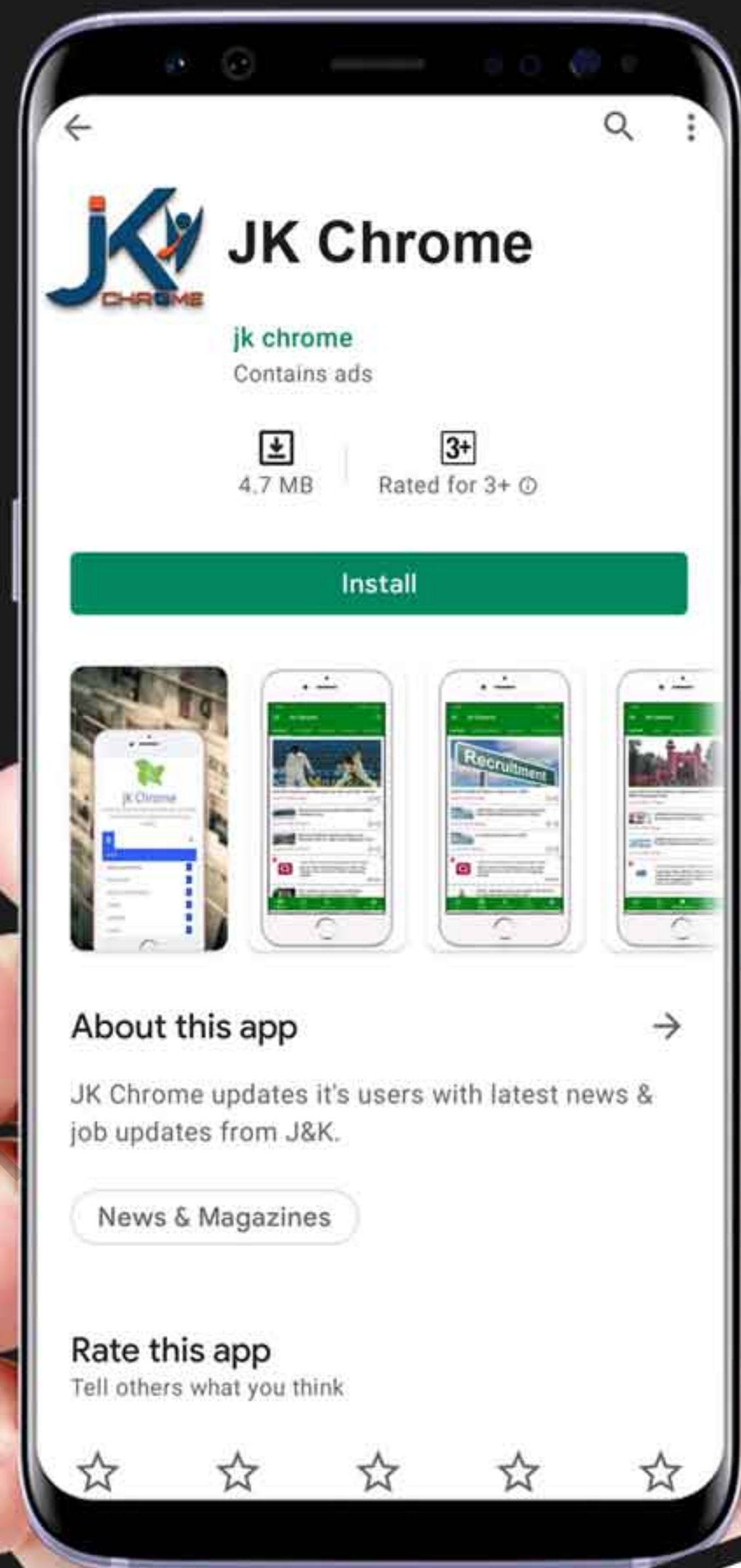
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STUDY MATERIAL



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Question No.1

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The optimistic, most likely and pessimistic time of an activity are 6, 9 and 12 days respectively. The standard deviation and variance of the activity are respectively.

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

Question No.2

Marks: 1.00

Bookmark

In rectangular concrete section, maximum shear stress occurs at:

- (A) Top fiber of section
- (B) Between top fiber and neutral axis
- (C) **Neutral axis (Correct Answer)**
- (D) Bottom fiber of section (Chosen option)

Question No.3

Marks: 1.00

Bookmark

What is the ratio of proof resilience of a material per unit volume?

- (A) **Modulus of resilience (Correct Answer) (Chosen option)**
- (B) Bulk Modulus
- (C) Young's Modulus
- (D) Modulus of elasticity

Question No.4

Marks: 1.00

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Which one of the following expressions gives horizontal distance for horizontal line of sight and vertical circle reading is zero? (Where K and S are constants)

- (A) $Ks+C^2$ (Chosen option)
- (B) **$Ks+C$ (Correct Answer)**
- (C) $Ks-C$
- (D) K^2s+C

Question No.5

Marks: 1.00

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What is main role of construction manager during the scheduling of project?

- (A) Cost/Benefit Analysis
- (B) **Resource Allocation (Correct Answer)** (Chosen option)
- (C) Regularly monitoring the project condition
- (D) Preparation of detailed project plan

Question No.6

Marks: 1.00
Bookmark

The line joining static water level in several wells, excavated through confined aquifer is known as:

- (A) **Piezometric surface (Correct Answer)**
- (B) Hypsometric curve
- (C) Cone of depression (Chosen option)
- (D) Perched water table

Question No.7

Marks: 1.00
Bookmark

The elastic settlement of the footing in case of saturated clays is determined using the relation:

- (A) $S_i = qB \left(\frac{E_s}{1-\mu} \right) I$
- (B) $S_i = qB \left(\frac{1-\mu}{E_c} \right) I$
- (C) $S_i = q \left(\frac{1-\mu^2}{E_c} \right) I$
- (D) $S_i = qB \left(\frac{1-\mu^2}{E_c} \right) I$ (Correct Answer) (Chosen option)

Question No.8

Marks: 1.00
Bookmark

Name the branch of physical science which deals with the state of rest or the motion.

- (A) Science of rigid body
- (B) **Mechanics (Correct Answer)**
- (C) Engineering Mechanics (Chosen option)
- (D) Physical science

Question No.9

Marks: 1.00
Bookmark

The viscosity of an oil specific gravity 0.8 is measured by capillary tube of diameter 40 mm. The difference of pressure head between two points 1.2 m apart is 0.3 m of water. The weight of oil collected in measuring tank is 400 N in 100 sec. Find viscosity of oil.

- (A) $\mu = 0.242 \text{ Ns/m}^3$ (Correct Answer)
- (B) $\mu = 400 \text{ Ns/m}^3$
- (C) $\mu = 0.452 \text{ Ns/m}^3$
- (D) $\mu = 200 \text{ Ns/m}^3$

Question No.10

Marks: 1.00

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What is the main factor that makes the maintenance of permanent way as important work?

- (A) Project economy
- (B) To ensure the safety of people
- (C) **To ensure the safety and comfort of people (Correct Answer) (Chosen option)**
- (D) To ensure the comfort of people

Question No.11

Marks: 1.00

Bookmark

Flow in pipe is considered as transition when the Reynold's number is between:

- (A) 0 and 1000
- (B) 1000 and 2000
- (C) 4000 and 8000
- (D) **2000 and 4000 (Correct Answer) (Chosen option)**

Question No.12

Marks: 1.00

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Clay minerals in soils are produced due to _____ type of weathering.

- (A) **Chemical (Correct Answer) (Chosen option)**
- (B) Synthetic
- (C) Physical
- (D) Biological

Question No.13

Marks: 1.00

Bookmark

What is the advantage of an Egged-shaped- system over a circular sewer of the same capacity?

- (A) Used for soft soil, because it is more stable
- (B) Good hydraulic properties until it is filled
- (C) **It gives higher velocity in low flow (Correct Answer) (Chosen option)**
- (D) Maximum cross-sectional area for a given wall material can be used

Question No.14

Marks: 1.00

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The Wet Mix Macadam is the layer rolled by:

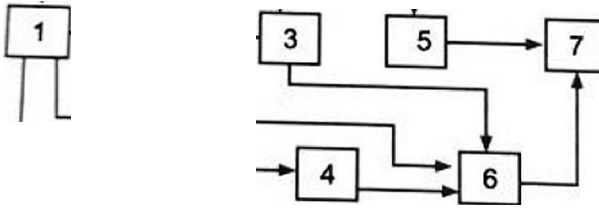
- (A) **Tandem Vibratory Roller (Correct Answer)**
- (B) Using Rammers
- (C) Sheep's-foot Roller
- (D) Pneumatic tyred roller (Chosen option)

Question No.15

Marks: 1.00

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How many links are deletable in following AON network?



- (A) 1
 (B) 0
 (C) 2 (Correct Answer)
 (D) 3

Question No.16

Marks: 1.00

Bookmark

Which one of the following is one of the recommendations of Jayakar Committee?

- (A) The top wearing course was made of smaller stones
 (B) A semi-official technical body should be formed (Correct Answer)
 (C) Heavy foundation stones should be used above the soil subgrade
 (D) Subgrade to be compacted and prepared with a cross slope of 1 in 36 (Chosen option)

Question No.17

Marks: 1.00

Bookmark

If the sharpness of a B.G. curve is greater than _____, then the check rails are provided on the inner side of the inner rails.

- (A) 3 degree (Chosen option)
 (B) 5 degree
 (C) 6 degree
 (D) 8 degree (Correct Answer)

Question No.18

Marks: 1.00

Bookmark

Reflection cracking is observed in:

- (A) Rigid pavement
 (B) Bituminous overlay over cement concrete surface (Correct Answer)
 (C) Flexible pavement
 (D) Riding overlay over flexible pavement

Question No.19

Marks: 1.00

Bookmark

The effective stress at a point in a soil mass =

- (A) Total stress + Pore water pressure
 (B) Pore water pressure - Total stress
 (C) Total stress - Pore water pressure (Correct Answer) (Chosen option)
 (D) Neutral stress

Question No.20

Marks: 1.00

Bookmark

What is minimum vertical reinforcement required for reinforced concrete wall having Fe415 steel?

- (A) **0.12% of gross area (Correct Answer)**
- (B) 6% of gross area
- (C) 0.8% of gross area
- (D) 0.15% of gross area (Chosen option)

Question No.21

Marks: 1.00

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Select the CORRECT order for making the entries into the measurement book.

- (A) 1. Date
2. BOQ number
3. Work order number
4. Location of work
5. Particulars
- (B) **1. Date**
2. Work order number
3. BOQ number
4. Location of work
5. Particulars (Correct Answer) (Chosen option)
- (C) 1. BOQ number
2. Date
3. Work order number
4. Location of work
5. Particulars
- (D) 1. Date
2. BOQ number
3. Work order number
4. Particulars
5. Particulars

Question No.22

Marks: 1.00

Bookmark

Which test is the best test for finding the workability of fiber reinforced concrete?

- (A) Slump test (Chosen option)
- (B) **Vee-Bee test (Correct Answer)**
- (C) Flow table test
- (D) Compacting factor test

Question No.23

Marks: 1.00

Bookmark

A tile drain is laid below a cropped land to remove excess irrigation water ,the drainage coefficient of this drain is usually expressed as:

- (A) Cm of water removed per second
- (B) Percentage of applied water which intercepted by this drain
- (C) **Cm of water depth removed from the drainage area per day (Correct Answer)**
- (D) Percentage of stored water which intercepted by this drain

Question No.24

Marks: 1.00

What is the size of colloidal particle?

- (A) 10^{-3} - 10^{-6} mm (Correct Answer)
- (B) $>10^{-8}$ (Chosen option)
- (C) 10^{-6} - 10^{-8} mm
- (D) 10^{-1} - 10^{-3} mm

Question No.25

Marks: 1.00

Bookmark

The chain which is commonly used for measuring fields in cadastral survey is called:

- (A) Engineer's chain
- (B) Revenue chain (Correct Answer)
- (C) Gunter's chain
- (D) British chain

Question No.26

Marks: 1.00

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Find the safe stopping sight distance on a two way and two lane level stretch for design speed of 50 kmph, assuming reaction time of driver as 2.5 sec and coefficient of friction is 0.37.

- (A) 71.4 m
- (B) 61.4 m (Correct Answer)
- (C) 41.4 m
- (D) 51.4 m

Question No.27

Marks: 1.00

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Which one among the following subsequent isn't an ordering cost?

- (A) Office and administrative expenses related to purchasing, accounting and receiving
- (B) Unloading costs
- (C) Transportation costs
- (D) Inventory store costs (Correct Answer) (Chosen option)

Question No.28

Marks: 1.00

Bookmark

How much cement is required to make the 10 kg concrete of M15 mix proportion?

- (A) 1.14 Kg
- (B) 1.42 Kg (Correct Answer)
- (C) 1.56 Kg
- (D) 1.28 Kg

Question No.29

Marks: 1.00

Bookmark

A rectangular beam of width 250 mm and effective depth of 400 mm resist a moment of 25 KNm. Find the reinforcement required if grade of concrete is M30 and steel is Fe415.

- (A) 400 mm²
- (B) 320 mm²

(C) 205 mm²

(D) 270 mm² (Correct Answer)

Question No.30

Marks: 1.00

Bookmark

Which one of the following is NOT a soil exploration technique?

(A) Auger boring test

(B) Standard proctor test (Correct Answer) (Chosen option)

(C) Wash boring test

(D) Rotary drilling test

Question No.31

Marks: 1.00

Bookmark

The basic requirements of an ideal alignment are short, easy, safe, and economical. What does 'easy' mean in the statement?

(A) Easy to remove the accident locations

(B) Easy to reconstruct the road and adjust with different weather conditions

(C) Easy to construct, maintain, easy gradients and curves (Correct Answer)

(D) Easy to change the alignment (Chosen option)

Question No.32

Marks: 1.00

Bookmark

Which of the following estimate is expected to be least accurate?

(A) Plinth area estimate (Correct Answer) (Chosen option)

(B) Item rate estimate

(C) Supplementary estimate

(D) Revised estimate

Question No.33

Marks: 1.00

Bookmark

Which of the following is the main function of Fish plate?

(A) To join rails with the sleeper

(B) To allow rail to expand and contract freely

(C) To join the two rails together (Correct Answer) (Chosen option)

(D) To provide traffic signal base

Question No.34

Marks: 1.00

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What is the recommended value of effective length of compression member as per IS Code when it is effectively held in position and restrained against rotation at both ends?

(A) 0.50 of its unsupported length

(B) 0.70 of its unsupported length

(C) 0.65 of its unsupported length (Correct Answer)

(D) 0.85 of its unsupported length (Chosen option)

Question No.35

Marks: 1.00

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If manning's coefficient for unlined channel is 0.030 then condition of channel is

- (A) good
(B) very good (Chosen option)
(C) poor (Correct Answer)
(D) indifferent

Question No.36

Marks: 1.00
Bookmark

The errors such as sag in chain and chain not being horizontal during stepping are common in:

- (A) Incorrect ranging (Chosen option)
(B) Slope measurement (Correct Answer)
(C) Incorrect length of chain
(D) Loose chain

Question No.37

Marks: 1.00
Bookmark

The soil is having unit weight of 20 kN/m^3 and depth of foundation is equal to 1.2 m, If the net bearing capacity of soil is 2532 kN/m^2 , then the safe bearing capacity for factor of safety 3 is equal to _____

- (A) 282 kN/m^2
(B) 1140 kN/m^2
(C) 874 kN/m^2 (Correct Answer)
(D) 173 kN/m^2 (Chosen option)

Question No.38

Marks: 1.00
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A company has 5,000 obsolete toys in inventory at a production cost of \$10 each. If the toys were remade for \$ 3 each, they could sell for \$ 5 each. If the toys are thrown away, they can be sold for \$ 2.5 each. Which alternative is more desirable (rework or scrap) and what is the total benefit amount of this alternative?

- (A) Scrap, \$2,500 (Correct Answer) (Chosen option)
(B) Rework, \$8,050
(C) Rework, \$6,050
(D) Scrap, \$4,950

Question No.39

Marks: 1.00
Bookmark

If $B = \frac{dy}{dx}$, Pressure increases along the flow when _____

- (A) $B > 0$ (Chosen option)
(B) $B = 2$
(C) $B = 0$
(D) $B < 0$ (Correct Answer)

Question No.40

Marks: 1.00
Bookmark

Momentum is _____ quantity.

- (A) **only vector (Correct Answer)**
- (B) both vector and scalar (Chosen option)
- (C) neither scalar nor vector
- (D) only scalar

Question No.41

Marks: 1.00

Bookmark

If the length of image is 0.030 m and the length of actual staff covered is 0.90 m, then the magnifying power of telescope is:

- (A) 27
- (B) **30 (Correct Answer)**
- (C) 1/30 (Chosen option)
- (D) 27/1000

Question No.42

Marks: 1.00

Bookmark

The coefficient of permeability is usually expressed as:

- (A) **cm/sec (Correct Answer) (Chosen option)**
- (B) kg/cm³
- (C) g/cm²
- (D) cm³

Question No.43

Marks: 1.00

Bookmark

The most important material used in the construction of flexible pavements is:

- (A) **Bitumen (Correct Answer)**
- (B) Copper
- (C) Granular soil
- (D) Coarse aggregates and fine aggregates (Chosen option)

Question No.44

Marks: 1.00

Bookmark

Sand replacement method of determination of field density of soil is suitable for:

- (A) Clayey soil
- (B) All types of soil (Chosen option)
- (C) Silty soil
- (D) **Gravelly, sandy and dry soil (Correct Answer)**

Question No.45

Marks: 1.00

Bookmark

On a two-lane highway a vehicle is moving at a speed of 100 kmph. If the coefficient of friction is 0.35 and the reaction time of the driver is 2.5 sec, then the lag distance is:

- (A) 59.5 m
- (B) **69.5 m (Correct Answer)**
- (C) 79.5 m
- (D) 89.5 m

Question No.46

Marks: 1.00

Bookmark

Calculate the hauling capacity of a 1-4-1 locomotive when the coefficient of rail-wheel friction and weight on each driving axle are 0.30 and 23 tonnes respectively.

- (A) 12.8 tonnes
- (B) 11.8 tonnes
- (C) 14.8 tonnes
- (D) **13.8 tonnes (Correct Answer)** (Chosen option)

Question No.47

Marks: 1.00

Bookmark

Which of the following is the method used for desalination of water?

- (A) Flocculation
- (B) **Electrodialysis (Correct Answer)**
- (C) Sedimentation
- (D) Chlorination (Chosen option)

Question No.48

Marks: 1.00

Bookmark

The value of specific yield SY, of an aquifer does not depend on:

- (A) **Oval shape (Correct Answer)**
- (B) Compaction of stratum (Chosen option)
- (C) Grain shape
- (D) Grain size

Question No.49

Marks: 1.00

Bookmark

If a beam is supported more than two supports, it is called _____ beam.

- (A) built in
- (B) **continuous (Correct Answer)** (Chosen option)
- (C) simply supported
- (D) fixed

Question No.50

Marks: 1.00

Bookmark

The admixtures used to improve the workability of concrete at a given water-cement ratio or reduce the water-cement ratio at a given workability is called:

- (A) Accelerator
- (B) Retarder (Chosen option)
- (C) **Plasticizer (Correct Answer)**
- (D) Air entrainer

Question No.51

Marks: 1.00

Bookmark

What is the height of the semaphore signal above the ground?

- (A) 6.5 m
- (B) 5.5 m
- (C) 8.5 m
- (D) **7.5 m (Correct Answer)**

Question No.52Marks: 1.00
Bookmark

Overall efficiency equation is expressed as:

- (A) $\frac{WQH_{mamo}}{p^2}$
- (B) $\frac{WH_{mamo}}{p}$
- (C) $\frac{WQH_{mamo}}{p^3}$
- (D) $\frac{WQH_{mamo}}{p}$ (Correct Answer) (Chosen option)

Question No.53Marks: 1.00
Bookmark

If the consumption of water for washing of cloth is 20 litre per head per day. What is the consumption of water in litre per head per day for bathing?

- (A) 24
- (B) 65
- (C) 69
- (D) 55 (Correct Answer) (Chosen option)

Question No.54Marks: 1.00
Bookmark

Which one of the following is an INCORRECT statement?

- (A) Fulkerson's rules can be used for numbering the events. (Chosen option)
- (B) A project network diagram can have only one critical path. (Correct Answer)
- (C) Knowledge of the precedence relationship between activities is necessary for making the project network diagram.
- (D) Network diagram is an essential part of the CPM and PERT technique.

Question No.55Marks: 1.00
BookmarkIn gravity dam, if H_w = height of waves then freeboard is generally provided equal to :

- (A) 0.57 H_w
- (B) H_w
- (C) $3/2 H_w$ (Correct Answer)
- (D) $2/3 H_w$ (Chosen option)

Question No.56Marks: 1.00
Bookmark

The process of supplying potable water from the source to consumers through the network of pipes, reservoirs and other appurtenance is known as _____

- (A) Filtration
- (B) Public demand of water
- (C) Distribution system (Chosen option)
- (D) Water supply scheme (Correct Answer)

Question No.57

Marks: 1.00

Bookmark

What will be the ultimate load if Live load is 60 KN, Dead load is 40 KN and Wind load 10 KN under limit state of collapse?

- (A) 110 KN
- (B) **150 KN (Correct Answer)**
- (C) 132 KN
- (D) 100 KN (Chosen option)

Question No.58

Marks: 1.00

Bookmark

If the sampler tube is pushed at the bottom of the bore hole to a distance of 585 mm with length of the sample recovered being 535 mm. Then the value of recovery ratio is

- (A) 78.00 %
- (B) **91.45 % (Correct Answer) (Chosen option)**
- (C) 81.20 %
- (D) 87.13 %

Question No.59

Marks: 1.00

Bookmark

The Optimum Bitumen Content (OBS) in Bituminous Mix is determined by:

- (A) **Marshall method of Mix Design (Correct Answer) (Chosen option)**
- (B) From field observations
- (C) Compaction method
- (D) California Bearing Ratio Test

Question No.60

Marks: 1.00

Bookmark

type of fluid jump occurs when $y_2/y_1 > 12$.

- (A) Smooth
- (B) Stable
- (C) **Rough (Correct Answer)**
- (D) Weak

Question No.61

Marks: 1.00

Bookmark

A scissor crossover between two parallel railway tracks contains:

- (A) A turntable device
- (B) A triangle Crossover
- (C) **A diamond crossover (Correct Answer)**
- (D) A heel divergence (Chosen option)

Question No.62

Marks: 1.00

Bookmark

What is the well known example of important siphonic type of cistern?

- (A) Flat bottom type cistern
- (B) **The Bell type cistern (Correct Answer)**
- (C) Mechanical type cistern

(D) Washdown toilet (Chosen option)

Question No.63

Marks: 1.00

Bookmark

The main objective of quality assurance is:

- (A) **Proof of fitness of product (Correct Answer)**
- (B) Inspection of quality of product
- (C) Quality conformance
- (D) Customer satisfaction (Chosen option)

Question No.64

Marks: 1.00

Bookmark

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

- (A) Compressive strain
- (B) Tensile strain
- (C) **Volumetric strain (Correct Answer) (Chosen option)**
- (D) Shear strain

Question No.65

Marks: 1.00

Bookmark

When conducting CBR test, it is observed that the load dial reading at 2.5 mm penetration is 33 divisions, if the one division represents 190 kg load in the calibration chart, what is the CBR at 2.5 mm penetration?

- (A) 3.60%
- (B) 5.60% (Chosen option)
- (C) **4.60% (Correct Answer)**
- (D) 2.60%

Question No.66

Marks: 1.00

Bookmark

The material which is used to construct the ordinary rails is:

- (A) Mild steel (Chosen option)
- (B) Wrought iron
- (C) Cast iron
- (D) **High Carbon Steel (Correct Answer)**

Question No.67

Marks: 1.00

Bookmark

When a member is subjected to a direct stress in one plane, then the normal stresses on an oblique plane are given by:

- (A) $\sigma \cos \theta$
- (B) **$\sigma \cos^2 \theta$ (Correct Answer) (Chosen option)**
- (C) $\cos^2 \theta$
- (D) $\sigma \cos 2\theta$

Question No.68

Marks: 1.00

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The critical route of the network indicates the final path of the completion of a project which has:

- (A) Maximum time of completion
- (B) **Minimum time of completion (Correct Answer)** (Chosen option)
- (C) Maximum cost of completion
- (D) Minimum cost of completion

Question No.69

Marks: 1.00
Bookmark

What is the shear force and bending moment of the simply supported beam having length 'L' and a point load acting at a mid-point of the beam?

- (A) **SF= W/2, BM = WL/4 (Correct Answer)** (Chosen option)
- (B) SF= W/2, BM = WL/2
- (C) SF= W/2, BM = WL/8
- (D) SF= W, BM = WL/4

Question No.70

Marks: 1.00
Bookmark

Which of the following angles has spherical excess?

- (A) 45° (Chosen option)
- (B) 180°
- (C) **225° (Correct Answer)**
- (D) 135°

Question No.71

Marks: 1.00
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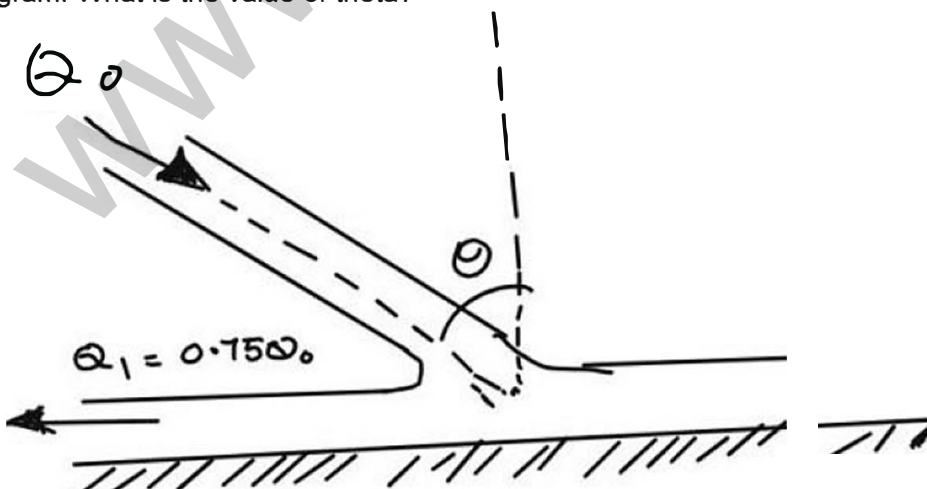
Which of the following methods of levelling yields inaccurate results?

- (A) **Barometric levelling (Correct Answer)**
- (B) Trigonometric levelling
- (C) Spirit levelling
- (D) Direct levelling (Chosen option)

Question No.72

Marks: 1.00
Bookmark

A horizontal jet is striking a vertical plate, it is divided into two parts as shown in the diagram. What is the value of theta?



- (A) 60° (Chosen option)

(B) 30° (Correct Answer)

(C) 120°

(D) 45°

Question No.73

Marks: 1.00

Bookmark

The tensile force acting on the surface between two immiscible liquids such that the contact surface behaves like a membrane under tension, is known as:

(A) Vapour pressure

(B) Capillarity

(C) Surface tension (Correct Answer) (Chosen option)

(D) Cavitation

Question No.74

Marks: 1.00

Bookmark

Head regulator of canals are constructed at:

(A) Downstream side of off take point

(B) Off take point (Correct Answer)

(C) Inlet of main channel (Chosen option)

(D) Upstream side of off take point

Question No.75

Marks: 1.00

Bookmark

A standard penetration test is conducted in fine sand below water table and the standard penetration number (N) observed is 25. The corrected value of N is _____.

(A) 18

(B) 35

(C) 20 (Correct Answer)

(D) 12

Question No.76

Marks: 1.00

Bookmark

The proportion 1 : 2 : 4 mix is also known as which grade of concrete?

(A) M25 (Chosen option)

(B) M15 (Correct Answer)

(C) M20

(D) M10

Question No.77

Marks: 1.00

Bookmark

Which factor leads to waterlogging due to obstruction?

(A) Inadequate Natural Drainage (Chosen option)

(B) Flat Topography

(C) Impervious Obstruction (Correct Answer)

(D) Over and Intensive Irrigation

Question No.78

Marks: 1.00

Bookmark

In reciprocal leveling, the error which is not completely eliminated is due to:

- (A) Non adjustment of line of collimation
- (B) Non adjustment of bubble tube
- (C) Earth's curvature (Chosen option)
- (D) Refraction (Correct Answer)

Question No.79

Marks: 1.00

Bookmark

What are the total number of reactions at the 3-D fix support?

- (A) 2
- (B) 4 (Chosen option)
- (C) 6 (Correct Answer)
- (D) 5

Question No.80

Marks: 1.00

Bookmark

Which method is NOT the part of the Quality Control Methods on construction projects?

- (A) Evaluation (Correct Answer)
- (B) Sampling (Chosen option)
- (C) Inspection
- (D) Testing

Question No.81

Marks: 1.00

Bookmark

The normal balanced condition of the stream will be restored by the process called:

- (A) Dilution
- (B) Recreation
- (C) Sedimentation (Chosen option)
- (D) Natural purification or self purification (Correct Answer)

Question No.82

Marks: 1.00

Bookmark

Find the approximate length of a simply supported beam, if the maximum deflection is given as 5 mm. It is subjected to an udl of 15 kN/m. Modulus of elasticity is given as 2×10^5 N/mm² and Moment of inertia is 6×10^7 mm⁴.

- (A) 4 m
- (B) 4.2 m (Correct Answer)
- (C) 40 m
- (D) 42 m

Question No.83

Marks: 1.00

Bookmark

In the case of Curved Switches, Entry angle is the:

- (A) Angle between the outer face of the tongue rail and gauge face of the stock rail
- (B) Angle between the outer face of the stock rail and the gauge face of the tongue rail
- (C) Angle between the tongue rail and Gauge face of the stock rail (Correct Answer) (Chosen option)
- (D) Angle between the tongue rail and outer face of the stock rail

Question No.84

Marks: 1.00

Bookmark

Using Dimensional analysis, find expression of the power developed by pump when power "P" depend upon the head (H), the discharge (Q) & specific weight (W) of the fluid power are its functions.

- (A) $P = KH$
 (B) $P = HW$
 (C) $P = KW$
 (D) $P = KHQW$ (Correct Answer) (Chosen option)

Question No.85

Marks: 1.00

Bookmark

The strain at right angles to the direction of applied load is known as:

- (A) Compressive stress
 (B) Lateral strain (Correct Answer) (Chosen option)
 (C) Linear Strain
 (D) Poisson's ratio

Question No.86

Marks: 1.00

Bookmark

A telescopic alidade provides:

- (A) Accurate angle
 (B) Inaccurate line of sight
 (C) Inaccurate angle
 (D) Accurate line of sight (Correct Answer) (Chosen option)

Question No.87

Marks: 1.00

Bookmark

Specific energy of a water flow at depth "y" and width "w" is:

- (A) $E = \frac{Q^2}{2gw^2y^2}$
 (B) $E = \frac{Q^2}{2gw^2y^2} + y$ (Correct Answer)
 (C) $E = \frac{Q^2}{2gw^2y^2} - y$
 (D) $E = \frac{3Q^2}{2gw^2y^2} + y$

Question No.88

Marks: 1.00

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The head of water over Centre of orifice of diameter 20 mm is 3 m. The actual discharge through orifice is 1.45 l.p.s. Calculate Cd of orifice.

- (A) $C_d = 0.60$ (Correct Answer) (Chosen option)
 (B) $C_d = 20$
 (C) $C_d = 1$
 (D) $C_d = 1060$

Question No.89

Marks: 1.00

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In which method of road construction, it is realized that subgrade should be kept drained, compacted, and prepared with cross slope of 1 in 36:

- (A) Under Romans roads
 (B) Metcalf method of construction (Chosen option)
 (C) **Macadam method of construction (Correct Answer)**
 (D) Tresaguet method of construction

Question No.90

Marks: 1.00

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The relation between coefficient of percolation, porosity and coefficient of permeability is given by:

- (A) $kp = \frac{n}{k}$
 (B) $kp = \frac{k}{n}$ (Correct Answer) (Chosen option)
 (C) $kp = k \times n$
 (D) $kp = \frac{2k}{n}$

Question No.91

Marks: 1.00

Bookmark

Hartons equation for finding infiltration rate (F_t) at any time period (t) is:

- (A) $F_t = F_c - (F_o + F_c) e^{-kt}$
 (B) $F_t = F_c - (F_o + F_c) e^{kt}$
 (C) $F_t = F_c + (F_o - F_c) e^{kt}$
 (D) $F_t = F_c + (F_o - F_c) e^{-kt}$ (Correct Answer) (Chosen option)

Question No.92

Marks: 1.00

Bookmark

What is the minimum thickness of two way simply supported slab with span 2.5×3.5 m and subjective to live load of 3 KN/m^2 is reinforced with Fe250.

- (A) 62 mm
 (B) **72 mm (Correct Answer)**
 (C) 90 mm
 (D) 100 mm

Question No.93

Marks: 1.00

Bookmark

Branch manager is a part of:

- (A) Operating force
 (B) **Middle Management (Correct Answer)**

- (C) Top management (Chosen option)
(D) Lower Management

Question No.94

Marks: 1.00
Bookmark

Which category of river training work deals with flood control?

- (A) Training for Discharge (Correct Answer)
(B) Low Water Training (Chosen option)
(C) Training for Depth
(D) Training for Sediment

Question No.95

Marks: 1.00
Bookmark

Which test is used to ascertain an object's dimensions?

- (A) Torsion test
(B) Eddy current test (Correct Answer)
(C) Visual test
(D) Ultrasonic test

Question No.96

Marks: 1.00
Bookmark

The strain produced by shear stress is known as:

- (A) Compressive strain
(B) Shear strain (Correct Answer) (Chosen option)
(C) Tensile strain
(D) Volumetric strain

Question No.97

Marks: 1.00
Bookmark

Which of the following phases does NOT come under the project management stages?

- (A) Project controlling
(B) Project being (Correct Answer) (Chosen option)
(C) Project scheduling
(D) Project planning

Question No.98

Marks: 1.00
Bookmark

By using a tacheometer with a horizontal line of sight, the three hair readings are recorded as 2.100, 1.852 and 1.534 m. If the multiplying constant is 100 and additive constant is zero, then the distance between the instrument and stadia rod station is:

- (A) 24.80 m
(B) 31.80 m
(C) 56.60 m (Correct Answer)
(D) 185.20 m

Question No.99

Marks: 1.00
Bookmark

Flow ratio equation in centrifugal pump is:

- (A)

$$K_f = V_f$$

(B) $K_f = \frac{V_f^2}{\sqrt{3gH_{mano}}}$

(C) $K_f = \frac{Q}{\sqrt{gH_{mano}}}$

(D) $K_f = \frac{V_f^2}{\sqrt{2gH_{mano}}}$ (Correct Answer) (Chosen option)

Question No.100

Marks: 1.00

Bookmark

In transition, time losses for discharge flow are:

(A) 0% (Correct Answer)

(B) 7.5 %

(C) 10%

(D) 5%

Question No.101

Marks: 1.00

Bookmark

The ratio of actual length of a column to the least radius of gyration of the column is known as:

(A) Euler's formula

(B) Buckling load

(C) Crippling load

(D) Slenderness ratio (Correct Answer) (Chosen option)

Question No.102

Marks: 1.00

Bookmark

The direction of magnetic meridian at a place:

(A) is always zero

(B) is always equal to true meridian

(C) Changes with time (Correct Answer) (Chosen option)

(D) Do not change with time

Question No.103

Marks: 1.00

Bookmark

In India, the first train ran between:

(A) Delhi to Agra

(B) Madras to Pondicherry

(C) Meerut to Delhi

(D) Bombay to Thane (Correct Answer) (Chosen option)

Question No.104

Marks: 1.00

Bookmark

For the cement concrete lining of canal safe limiting velocity in m/s is:

(A) 1.5

(B) 1.8

(C) 3.5

(D) **2.7 (Correct Answer)** (Chosen option)

Question No.105

Marks: 1.00

Bookmark

Which of the following is used to determine the magnitude of the buoyant force?

- (A) **Archimede's Principle (Correct Answer)** (Chosen option)
- (B) Principle of moments
- (C) Law of conservation
- (D) Newton's second law

Question No.106

Marks: 1.00

Bookmark

In project network diagram, the activity stands for:

- (A) Only time-consuming part of project
- (B) Neither time nor resource-consuming part of project
- (C) **Time and resource-consuming part of project (Correct Answer)** (Chosen option)
- (D) Only resource-consuming part of project

Question No.107

Marks: 1.00

Bookmark

_____ load is one which is spread over a beam in such a way that the rate of change of loading varies from point to point.

- (A) **Varying (Correct Answer)** (Chosen option)
- (B) Point
- (C) Uniform
- (D) Concentrated

Question No.108

Marks: 1.00

Bookmark

Which of the Governor-Generals introduced the railway system in India?

- (A) **Lord Hardinge (Correct Answer)**
- (B) Lord Lytton
- (C) Lord Wellesley
- (D) Lord Canning (Chosen option)

Question No.109

Marks: 1.00

Bookmark

What is the advantage of gate valve over globe valve?

- (A) It controls the flow equally well from either direction
- (B) **It offers less resistance to flow (Correct Answer)** (Chosen option)
- (C) It can manually be closing the pipes to control the flow of water
- (D) It has quicker opening and closing

Question No.110

Marks: 1.00

Bookmark

What is the first and most important function of management?

- (A) **Planning (Correct Answer)** (Chosen option)
- (B) Controlling

- (C) Surveying
- (D) Scheduling

Question No.111

Marks: 1.00
Bookmark

If $S_b > S_c$ and surface slope is negative then depth variation can be observed to be

- (A) $y_c > y_n > y$
- (B) $y_n > y > y_c$
- (C) $y > y_c > y_n$
- (D) $y_c > y > y_n$ (Correct Answer) (Chosen option)

Question No.112

Marks: 1.00
Bookmark

What is minimum cement content required for RC work which is exposed to aggressive sub-soil or ground water?

- (A) 300 kg/m³
- (B) 320 kg/m³ (Chosen option)
- (C) 360 kg/m³
- (D) 340 kg/m³ (Correct Answer)

Question No.113

Marks: 1.00
Bookmark

The process to counterbalance the consumption of D.O due to the de-oxygenation, atmosphere supplies oxygen to the water is called _____

- (A) De-oxygenation
- (B) Re-oxygenation (Correct Answer) (Chosen option)
- (C) Self-purification
- (D) Dilution

Question No.114

Marks: 1.00
Bookmark

In the open channel flow, flow over the bump becomes _____ when y_2 becomes lesser than y_1 .

- (A) critical
- (B) subcritical
- (C) depression
- (D) supercritical (Correct Answer) (Chosen option)

Question No.115

Marks: 1.00
Bookmark

What will be the negative moment coefficient at a discontinuous edge of a two-way slab?

- (A) 1
- (B) (3/4) of positive moment coefficient
- (C) 0 (Correct Answer)
- (D) (4/3) of positive moment coefficient

Question No.116

Marks: 1.00

Bookmark

As per IS 456:2000, a building having lateral dimension above _____ should be checked for the effect of temperature fluctuation, creep and shrinkage.

- (A) **45 m (Correct Answer)**
- (B) 60 m
- (C) 30 m
- (D) 15 m

Question No.117

Marks: 1.00

Bookmark

Which of the following is NOT a necessary ingredient of plain cement concrete?

- (A) Cement
- (B) Water
- (C) Aggregates
- (D) **Calcium chloride (Correct Answer) (Chosen option)**

Question No.118

Marks: 1.00

Bookmark

What is the environment said to be when the ELR is more than the ALR?

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

Question No.119

Marks: 1.00

Bookmark

The maximum inclination of the plane on which a body, free from external forces can sleep is called:

- (A) Cone of friction
- (B) Coefficient of friction
- (C) **Angle of repose (Correct Answer) (Chosen option)**
- (D) Angle of friction

Question No.120

Marks: 1.00

Bookmark

Every longitudinal strain in the direction of load is accompanied by lateral strains of the opposite kind in all directions _____ to the load.

- (A) parallel
- (B) opposite
- (C) **perpendicular (Correct Answer) (Chosen option)**
- (D) axial



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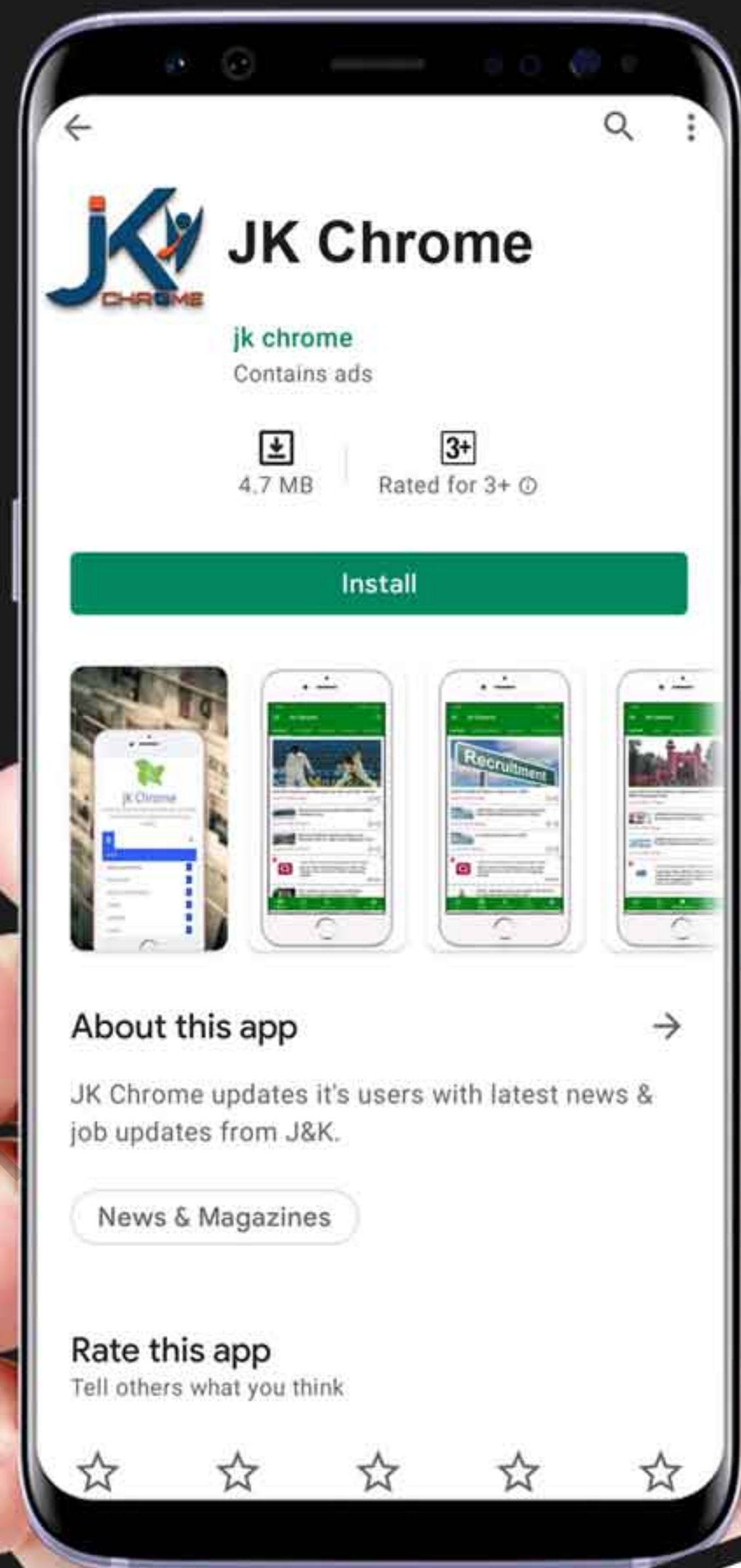
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