PSC Assistant Engineer - Civil - Archaeology / Asst Engineer - Civil - Head Draftsman -Civil - Agriculture - Engineering Wing Examination Previous Year Question Paper

Exam Name: Assistant Engineer - Civil -Archaeology / Asst Engineer - Civil - Head Draftsman - Civil - Agriculture - Engineering Wing

Date of Test : 30.07.2015

Question Paper Code: 143/2015

Medium of Questions: English



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Maximum: 100 marks

(B)

(B)

Time: 1 hour and 15 minutes

Sedimentary rock

(D) Gives colour to concrete

(B) Soundness of cement

(D) A type of building finish

(D) Fineness of cement

Retards the setting of concrete

1. Most chemically active concrete aggregate are from :

- (A) Igneous rock
- (C) Metamorphic rock (D) Sand stones
- 2. Common sugar added to concrete :
 - (A) Increases the strength of concrete
 - (C) Accelerates the setting of concrete
- 3. Air permeability test is done to measure :
 - (A) Setting time of cement
 - (C) Chemical composition of cement
- 4. ASCU is :
 - (A) A damp proofing material for concrete (B) A preservative for timber
 - (C) A type of brick bond

5. For concrete exposed to dry conditions, the minimum curing period is :

 (A) 5 days
 (B) 7 days

 (C) 10 days
 (D) 14 days

6. A window that projects outside the external walls of a room is :

(A) Gable window(B) Sash window(C) Dormer window(D) Bay window

7. A floor slab supported directly on column is called :

- (A) Ribbed slab (B) Flat slab
- (C) Flat plate (D) Grid floor

8. Service plan :

A

- (A) is drawn to a scale not less than that of site plan
- (B) include layout of existing water supply system
- (C) shows predominant wind direction
- (D) all the above

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| | | · 1 1 6 · · · · · hd | | n e site plan is : |
|------|------------------|---|---------------|--|
| 9. | The notat (A) | ional colour for existing hazardou Black | (B) | Red |
| | (A) (C) | Purple | (D) | Dark blue |
| | (0) | i dipio | (- / | |
| 10. | For a rect | angular foundation of width b, eo | centricity o | f load should not exceed : |
| | (A) | b/2 | (B) | b/3 |
| | (C) | b/5 | (D) | b/6 |
| .11. | The proje | cting ornamental course at the ju | nction of a v | wall and ceiling : |
| | (A) | Coping | (B) | Corbel |
| | (C) | Cornice | (D) | Parapet |
| | | | | |
| 12. | | buildings are : | | |
| | (A) | residential | (B) | institutional |
| | (C) | assembly | – (D) | educational |
| 13. | Roof trus | ses are generally used when the s | pan exceeds | з: |
| 1 | (A) | 3m | · (B) | 5m |
| • | (C) | 10m | (D) | 15m |
| 14. | In struck | pointing, the face of the pointing | is: | |
| | (A) | flat | (B) | sloping outwards |
| | (C) | vertical but pressed inside | (D) | grooved |
| | M: . | · 11. Construction of Construction | www.lete.ele | |
| 15. | | a period before striking soffit form | (B) | 7 days |
| | (A) | 21 days | | 1 day |
| | (C) | 3 days | (D) | I uay |
| 16. | The line j | oining the optical centre of object | glass to the | e centre of eye- piece of a telescope is |
| | (A) | Line of collimation | (B) | Line of sight |
| | (C) | Axis of bubble tube | (D) | Axis of telescope |
| 17 | 701 - 1: | | into . | |
| 17. | | normal to the plumb line at all po | | Horizontal line |
| | (A) | Vertical line | (B) | Level line |
| | (C) | Datum line | (D) | Level IIIIe |
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| 18. | | readings taken at st 55, 1.785. The station | |) from | n a single se | tup of the level are 0.535, |
|-----|-------------------------|--|---|--------|----------------------------|----------------------------------|
| | (A) | Below A and D | | (B) | Above C an | d b |
| | (C) | Between C and D | | (D) | None of the | |
| | (0) | | | (12) | i tone of the | |
| 19. | The BS is | 6.655 taken on BM of | RL 400.000. If F | S is 1 | .45, RL of the | e last station is : |
| | (A) | 394.795 | | (B) | 401.450 | |
| | (C) | 405.205 | | (D) | 406.655 | |
| | | | a de la compañía de l | | | |
| 20. | | ontal angle between th | ne true meridian | and n | nagnetic mer | idian is known as : |
| | (A) | Declination | | (B) | Dip | |
| | (C) | Bearing | | (D) | Local attrac | ction |
| 21. | The fore of | and back bearing of a l | ing differ exactly | her . | | |
| 41. | (A) | 360° | me umer exactly | | 1900 | |
| | (A) (C) | 90° | | (B) | 180° 45° | |
| | (0) | 50 | | (D) | 40 | |
| 22. | The angle | s of elevation from A | to the top and bo | ttom o | of a rod of lei | ngth 2 m held vertically at |
| | | and 30° respectively. | | | | |
| | (A) | 4.732 m | | (B) | 1.268 m | |
| | (C) | 3.464 m | | (D) | 0.789 m | |
| 0.9 | | | | | | |
| 23. | | s at the Autumnal Equ | unox on : | | T OI | |
| | (A) | March 21 | | (B) | June 21 | |
| | (C) | September 21 | | (D) | December 2 | 1 |
| 24. | Subsidiar | v station established a | s near the true tr | riangu | lation statio | n as possible is known as : |
| | · (A) | Satellite station | | (B) | Principal st | |
| | (C) | Central station | | (D). | Pivot statio | |
| | | | | | | |
| 25. | | | | | | vall and a smooth floor. |
| | The minin floor is : | num force to be applied | ed at the floor en | d to l | ceep it in equ | uilibrium at angle θ with |
| | (A) | W tan θ | | (B) | $0.5 W \tan \theta$ | |
| | (C) | $W \cot \theta$ | | (D) | $0.5 \text{W} \cot \theta$ | |
| | | W COLD | | (D) | 0.5 W COLO | |
| 26. | | | | cone | of diameter | d and height h lies at a |
| | | stance of | - from the base. | | 1./0 | |
| | (A) | h/2 | | (B) | h/3 | |
| | (C) | h/4 | | (D) | h/6 | |
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27. A block of weight 20kN just begins to move along a horizontal surface on application of 5kN horizontal force. The coefficient of friction between block and surface is :

| (A) | 0.10 | (B) | 0.20 |
|-----|------|-----|------|
| (C) | 0.25 | (D) | 0.50 |

- 28. Which of the following is an incorrect assumption in the analysis of truss?
 - (A) All joints are pinned
 - (B) Loads applied at joints only
 - (C) All members are straight
 - (D) Weights of members are acting at their centres
- 29. During strain hardening :
 - (A) Material undergoes changes in atomic and crystalline structures
 - (B) Increased resistance to further deformation
 - (C) Stress strain diagram has positive slope
 - (D) All the above
- 30. Ability of a material to absorb energy within the elastic range :

| (A) | Toughness | (B) | Elasticity |
|-----|-----------|-----|------------|
| (C) | Stiffness | (D) | Resilience |

31. A cantilever beam fixed at left end carries a udl w / unit length over the left half portion and a point load W at the free end. If L is the length of the beam, the bending moment at fixed end is :

| (A) | $WL/2 + wL^2/4$ | (B) | $wL/2 + WL^2/4$ |
|-----|-----------------|-----|-----------------|
| (C) | $wL + WL^2/8$ | (D) | $WL + wL^2/8$ |

32. A beam ABC, is simply supported at A and B and BC is overhanging. AB = L and BC = L/2 and it carries a point load P at C. The deflection at C is :

| (A) | PL ² /24EI | (B) | PL ³ /8EI |
|-----|-----------------------|-----|-----------------------|
| (C) | PL ³ /48EI | (D) | PL ² /16EI |

33. The Poisson's ratio of a material is 0.3 and Young's modulus is 200 GPa. Its Rigidity Modulus is :

| (A) | 77 GPa | (B) | 51 GPa |
|-----|---------|-----|---------|
| (C) | 125 GPa | (D) | 333 GPa |

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| 34. | Bending moment M and torque T are applied on a solid circular shaft. If the maximum bending stress is equal to the maximum shear stress developed, M is equal to : | | | | |
|-----|---|---|------------------------|---|--|
| | (A) | Т | (B) | 2T | |
| | (C) | Τ/2 | • (D) | T/4 | |
| 35. | Surface to | ension is caused by a forc | e of ——— a | t the free surface. | |
| | (A) | Adhesion | (B) | Cohesion | |
| | (C) | Both (A) and (B) | (D) | Either (A) or (B) | |
| 36. | and the second se | height of a mountain if p y respectively. Specific w | | at its base and top are 74 cm and 60 cm N/m^3 : | |
| | (A) | 1000 m | (B) | 1750 m | |
| | (C) | 2600 m | (D) | 1560 m | |
| 37. | A stable s | ubmerged body has : | | | |
| | (A) | Centre of gravity below | centre of buoyancy | | |
| | (B) | Centre of gravity below | metacentre | | |
| | (C) | Centre of gravity above | centre of buoyancy | | |
| | (D) | Centre of gravity above | metacentre | | |
| 38. | Poise is th | ne unit of: | | | |
| | (A) | Density | (B) | Velocity gradient | |
| - | (C) | Kinematic viscosity | (D) | Dynamic viscosity | |
| 39. | The veloci | ty distribution at any se | ction of a pipe for st | eady laminar flow is : | |
| | (A) | Linear | (B) | Exponential | |
| | (C) | Parabolic | (D) | Constant | |
| 40. | In flow th transmiss | | acy of transmission | under conditions of maximum power | |
| | (A) | 50% | (B) | 66.67% | |
| | (C) | 70% | (D) | 95.9% | |
| 41. | A rectange the ratio | ular channel will be mos | t economical when t | he flow depth and bottom width are in | |
| | (A) | 2:1 | (B) | 1:1 | |
| | (C) | 1:2 | (D) | 1:4 | |

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| 42. | Water flow | w in large sized pipes for larg | ge flow rates can | be measured using : |
|-----|-------------|-------------------------------------|--|-------------------------------------|
| | (A) | Orifices | (B) | Notches |
| | (C) | Venturi meter | (D) | Elbow meter |
| 43. | An inwor | I flow reaction turbine : | •••••••••••••••••••••••••••••••••••••• | |
| 40. | (A) | Impulse turbine | (B) | Francis turbine |
| | (A) (C) | Pelton turbine | (D) (D) | All the above |
| | (0) | r enon turbine | (1) | The above |
| 44. | The amou | nt of moisture present in the | e air expressed a | s mass per unit volume is: |
| | (A) | Absolute humidity | (B) | Saturation' rate |
| | (C) | Vapour pressure | (D) | All the above |
| | | | | |
| 45. | The salt c | oncentration in irrigation wa | ater is generally | méasured by : |
| | (A) | SAR value | (B) | Electrical conductivity value |
| | (C) | pH value | (D) | BOD value |
| | | | | |
| 46. | Optimum | depth of kor - watering for a | rice is : | |
| | (A) | 13.5 cm | (B) | 16.5 cm |
| | (C) | 19 cm | (D) | 20 cm |
| | | | | • |
| 47. | The crop | period of a crop is 120 days | s. It requires 10 | cm depth of water at every 10 days. |
| | Its delta i | s: | | |
| | (A) | 120 cm | (B) | 60 cm |
| | (C) | 12 cm | (D) | 6 cm |
| | | 1. The set of the second set of the | | |
| 48. | The water | which cannot be extracted b | by the plants from | |
| | (A) | Capillary water | (B) | Hygroscopic water |
| | (C) | Available moisture | (D) | Field capacity |
| | | | | and an and the star |
| 49. | | which is not supposed to do | | |
| | (A) | Major distributory | (B) | Minor distributory |
| | (C) | Branch canal | (D) | Main canal |
| | _ | | , ,, ,, | |
| 50. | | gical formation which contain | | |
| | (A) | Water table | (B) | Aquifer |
| | (C) | Aquiclude | (D) | Aquifuge |
| | | | | low the drainers is . |
| 51. | | oss – drainage work where c | and the second second second second | |
| | (A) | Super passage | (B) | Aqueduct |
| | (C) | Inlet | (D) | Level crossing |
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| 52. | | oir which retains excess supplies dur during low flows : | ing pe | eriods of peak flows and release them |
|-----|-------------|---|--------|---------------------------------------|
| | (A) | Retarding reservoir | (B) | Flood control reservoir |
| | (C) | Distribution reservoir | (D) | Conservation reservoir |
| 53. | A plot of o | cumulative rain versus time is called : | | |
| | (A) | Mass curve | (B) | Hydrograph |
| | (C) | Hyetograph | (D) | DAD curve |
| 54. | Example | of subsurface source of water : | | |
| | (A) | River | (B) | Ponds |
| | (C) | Spring | (D) | Streams |
| 55. | The stan | dard unit of turbidity of water is the | at wh | ich is produced by 1 mg of |
| | | in one litre of distilled water. | | |
| | (A) | Finely divided silica | (B) | Platinum cobalt |
| | (C) | Potassium permanganate | (D) | Formazin |
| 56. | A compou | nd that imparts temporary hardness to | o wate | er: |
| | (A) | Calcium sulphate | (B) | Magnesium chloride |
| · | (C) | Calcium nitrate | (D) | Magnesium carbonate |
| | • | | | |
| 57. | | the following is incorrect regarding a sl | | |
| | (A) | Incoming water should not be treated | | |
| | (B) | Depth of water should be double the o | | |
| | | Loss of head is limited to a maximum | | |
| | (D) | Cleaning should not be done by back | wasni | ng |
| 58. | A method | of disinfection of drinking water : | | |
| | (A) | Treatment with excess lime | (B) | Treatment with ozone |
| | (C) | Electra-Katadyn process | (D) | All the above |
| | DOD C | | | |
| 59. | | fluent from secondary biological treatm | | |
| | (A) | 0 to 5% of the original | (B) | 5 to 10% of the original |
| | (C) | 25 to 40% of the original | (D) | 50 to 60% of the original |
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- During sludge digestion : 60.
 - (A) Acidity condition should prevail
 - (C) Acidity or alkaline condition
- (B) Alkaline condition should prevail
- (D) Neutral condition should prevail

The disposal method in which solid waste is heated in an oxygen free atmosphere and 61. reduced to gaseous, liquid and solid fractions :

- Pulverisation (A) Pyrolysis (B)
- (D) Composting (C) Incineration

The best system of plumbing of drainage work in building is : 62.

- (A) One pipe system
- (B) Two pipe system
- (C) Single stack system
- (D) Partially ventilated single stack system

Water content of soil is 0.15, Degree of saturation 70%, void ratio is 0.61, then specific gravity 63. is:

| (A) | 2.85 | (B) | 2.13 |
|-----|------|-----|------|
| (C) | 2.50 | (D) | 2.17 |

The numerical difference between liquid limit and plastic limit is : 64.

- **Plasticity** index (A) Liquidity index **(B)**
- (D) Flow index (C) Consistency index
- The intensity of vertical stress at depth z below a concentrated load Q, by Boussinesq 65. equation is :

| (A) | $\sigma_z = 0.5775 \frac{Q}{z^2}$ | | (B) | $\sigma_z = 0.4775 Qz^2$ |
|-----|-----------------------------------|-------------------|-----|---------------------------|
| (C) | $\sigma_z = 0.4775 \frac{Q}{z^2}$ | the second of the | (D) | $\sigma_z = 0.5775 Qz^2$ |

66. The volumetric strain per unit increase in effective stress of soil is defined as :

- **Compression index** (B) Volume compressibility (A)
- Coefficient of compressibility (D) Consolidation (C)
- 67. Failure of a finite slope along a surface that intersects the slope above the toe :
 - (A) Compound failure (B) **Base** failure
 - (D) Toe failure (C) Slope failure

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| 68. | . The height to diameter ratio of cylindrical specimen for uniaxial compression test of concrete is : | | | | |
|-----|--|---|---------|--|--|
| | (A) | 0.50 | (B) | 0.30 | |
| | (C) | | (D) | 2.00 | |
| 69. | Which of | the following is a measure of dynamic | modul | us of elasticity of concrete? | |
| | (A) | Tangent modulus | (B) | Secant modulus | |
| | (C) | Initial tangent modulus | (D) | All the above | |
| 70. | The partie | al safety factor for strength of concrete | for se | rvice ability limit state is : | |
| | (A) | 1.00 | (B) | 1.10 | |
| | (C) | 1.15 | (D) | 1.25 | |
| 71. | When rein | nforcement bars placed short of their r | equire | d length need to be extended, we use : | |
| | (A) | anchorages | (B) | standard bends and hooks | |
| | (C) | development length | (D) | splices | |
| 72. | . The ultimate moment of resistance by LSM for a beam with b = 300 mm, d = 550 mm, M20 concrete, reinforced with 4-25mm dia Fe250 bars : | | | | |
| | (A) | 146 kNm | (B) | 194 kNm | |
| | (C) | 200 kNm | (D) | 210 kNm | |
| 73. | Relation b | between Young's modulus and cube str | ength | of concrete is : | |
| | (A) | $E_c = 500\sqrt{f_{ck}}$ | (B) | $E_c = 5700 \sqrt{f_{ck}}$ | |
| | (C) | $E_c = 5000 \sqrt{f_{ck}}$ | (D) | $E_c = 700\sqrt{f_{ck}}$ | |
| 74. | The mini | mum area of tension reinforcemen | t reau | ured in a rectangular beam section | |
| | | 400 mm if Fe415 steel is used at 25 m | | | |
| | (A) | 154 mm ² | (B) | 180 mm ² | |
| | (C) | 164 mm ² | (D) | 193 mm ² | |
| 75. | Effective | span of a simply supported beam is : | | | |
| 10. | (A) | Face to face distance of supports | (B) | Clear span + effective depth | |
| | (C) | Clear span – effective depth | (D) | Clear span + effective depth /2 | |
| | | | | | |
| 76. | Minimum | grade of concrete for pre tensioned pr | e-stres | ssed concrete : | |
| | (A) | M20 | (B) | M30 | |
| | (C) | M40 | (D) | M45 | |
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| 77. | Minimum reinforcement required in either direction in slabs reinforced with high strength deformed bars is : | | | | | |
|--|--|---|--------------------------------------|---------------------------------|--|--|
| | (A) | 0.11 | (B) | 0.12 | | |
| | (C) | 0.15 | (D) | 0.17 | | |
| 78. | Structural steel of grade Fe410 A has ultimate tensile strength of : | | | | | |
| | (A) | 410 MPa | (B) | 328 MPa | | |
| | (C) | 300 MPa | (D) | 520 MPa | | |
| 79. | The diameter of bolt hole for a bolt of nominal size 12 mm is : | | | | | |
| | (A) | 12.0 mm | (B) | 12.5 mm | | |
| | (C) | 13.0 mm | (D) | 14.0 mm | | |
| 80. | Common | hot rolled steel axial compression m | embers f | ail by : | | |
| | (A) | Gross section yielding | (B) | Critical section rupture | | |
| | (C) | Block shear | (D) | Flexural buckling | | |
| 81. As per Indian Standards, the maximum bearing pressure at the cexceed the bearing strength equal to : | | | essure at the column base should not | | | |
| | (A) | 0.40 fck | (B) | 0.45 fck | | |
| | (C) | 0.50 fck | (D) | 0.60 f _{ck} | | |
| 82. | A flat compression element of a cold formed steel section, stiffened at both edges parallel to the direction of stress is called : | | | | | |
| | (A) | Stiffened compression element | (B) | Unstiffened compression element | | |
| | (C) | Multiple stiffened element | (D) | Flat element | | |
| 83. | Failure by block shear at an end connection of a plate involves : | | | | | |
| | (A) Shear along two planes, tension along two planes | | | | | |
| (B) Shear along one planes, tension along two planes | | | | olanes | | |
| | (C) |) Shear along two planes, tension along one plane | | | | |
| | (D) | Shear along one plane, tension alo | ng one pl | ane | | |
| 84. | Which of the following decides the width of taxiway? | | | | | |
| | (A) | Tail width | (B) | Fuselage length | | |
| | (C) | Wheel base | (D) | Wing span of aircraft | | |
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| 85. | Elevator : | | | |
|-----|--|---------------------------------------|-------------|---|
| | (A) | Controls pitching of aircraft | (B) | Controls yawing of aircraft |
| | (C) | Is fixed on the wing | (D) | Controls rolling of aircraft |
| 86. | 86. What is the super elevation required on a horizontal circular curve of radius 10 design speed of 50 km/h and coefficient of lateral friction 0.15? | | | |
| | (A) | 0.017 | (B) | 0.027 |
| | (C) | 0.047 | (D) | 0.157 |
| 87. | Ruling gr | adient for mountainous terrain is : | | |
| | (A) | 4% | (B) | 5% |
| | (C) | 6% | (D) | 7% |
| 88. | 88. The psychological widening required on a horizontal curve of radius 235 m for a design speed of 65 km/h is : | | | urve of radius 235 m for a design speed |
| | (A) | 0.446 m | (B) | 0.456 m |
| | (C) | 0.646 m | (D) | 0.656 m |
| 89. | 89. If the cross slope of a terrain is 20 %, according to IRC classification, it is a : | | | |
| | (A) | Plain terrain | (B) | Rolling terrain |
| | (C) | Mountainous terrain | (D) | Steep terrain |
| 90. | The numb | per of vehicles occupying a unit leng | gth of a la | ne of roadway at a given instant is : |
| | (A) | Traffic volume | (B) | Traffic capacity |
| | (C) | Traffic density | (D) | Basic capacity |
| 91. | Which of | the following is a warning sign? | | |
| | (A) | One – way | (B) | Speed limit |
| | (C) | Cycle crossing | (D) | Parking |
| 92. | The gauge | e of a railway track is defined as : | | |
| | (A) The clear distance between inner faces of two rails | | | |
| | (B) The clear distance between outer faces of two rails | | | vo rails |
| | (C) The centre to centre distance between two rails | | | ails |
| | (D) The distance between inner faces of a pair of wheels | | | of wheels |
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| 93. | Equilibriu 70 kmph, | | Gau | age track, if the permitted speed is | | |
|------|---|---|--------|---------------------------------------|--|--|
| | (A) | 18.85 cm | (B) | 16.20 cm | | |
| | (C) | 15.85 cm | (D) | 11.25 cm | | |
| 94. | The gradi | ent which determines the maximum los | ad tha | at the engine can haul on a section : | | |
| | (A) | Ruling gradient | (B) | Momentum gradient | | |
| | (C) | Pusher gradient | (D) | Super elevation | | |
| 95. | The differ | ence between the latest allowable time | and t | the earliest expected time is : | | |
| | (A) | Maximum float | (B) | Total float | | |
| | (C) | Slack time | (D) | Free float | | |
| 96. | Military o | organisation is : | | | | |
| | (A) | Line organisation | (B) | Line and staff organisation | | |
| | (C) | Functional organisation | (D) | None of these | | |
| 97. | 'The Garden City' principle for town planning was introduced by : | | | | | |
| | (A) | Sir Ebenezer Howard | (B) | Sir Patrick Geddes | | |
| | (C) | Clarence Stein | (D) | Henry Wright | | |
| 98. | Which of | the following is a natural growth of a to | wn? | | | |
| | (A) | Ribbon development | (B) | Satellite growth | | |
| | (C) | Scattered growth | (D) | All the above | | |
| 99. | Honey comb brick wall is measured in : | | | | | |
| | (A) | Metres | (B) | Square metres | | |
| | · (C) | Cubic metres | (D) | Number | | |
| 100. | 100. The value of dismantled materials : | | | | | |
| | (A) | Scrap value | (B) | Rateable value | | |
| | (C) | Salvage value | (D) | Market value | | |
| | | | | | | |
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