

प्रदेश लोक सेवा आयोग

कोशी प्रदेश, बिराटनगर

स्थानीय सरकारी सेवा अन्तर्गत प्राविधिक तर्फ इन्जिनियरिंग सेवा, सिभिल समूह, सहायकस्तर पाँचौ तह, सब-इन्जिनियर पदको खुला प्रतियोगितात्मक लिखित परीक्षा

KEY: [D]

समय: ४५ मिनेट

पत्र: प्रथम पत्र

विषय: सेवार्थी सञ्चालित कार्यज्ञान

मिति:- २०८२/११/०२

पूर्णाङ्क: १००

उत्तरपुस्तिकामा प्रश्नपत्रको KEY अनिवार्य रूपले उल्लेख गर्नुपर्नेछ । KEY उल्लेख नगरेमा उत्तरपुस्तिका रद्द हुनेछ । परीक्षामा मोबाइल, क्याल्कुलेटर लगायतका विद्युतीय उपकरणहरू प्रयोग गर्न पाइने छैन ।

वस्तुगत बहुविकल्पिक प्रश्नहरू (५० x २ अङ्क)

- The road foundation for modern highways construction, was developed by which of the following scientists?
(A) Telford (B) Macadam
(C) Tres Guest (D) Both A and B
- The distance travelled by a moving vehicle during perception and brake reaction times, is known as:
(A) Stopping distance (B) Lag distance
(C) Sight distance (D) Perception distance
- Prime coat is done before laying tack coat in bituminous roads to:
(A) Remove dust (B) Seal pores of WBM base
(C) Increase adhesion (D) Increase strength
- The plinth area of building does NOT include:
(A) Area of the walls at the floor level
(B) Area of cantilevered porch
(C) Internal shaft for sanitary installation up to 2 sqm. in area
(D) Lift and wall including landing
- The value of the property, without being dismantled, at the end of the useful life period is known as:
(A) Scrap value (B) Salvation value *without*
(C) Book value (D) Annuity due
- The primary role of a contractor in a construction project is to:
(A) Approve project financing
(B) Execute the work as per the contract agreement
(C) Prepare feasibility reports
(D) Handle legal disputes
- Muster Rolls are used for:
(A) Evaluating the construction activities (B) Recording the daily construction activities
(C) Paying wages of workers employed on daily basis (D) Evaluating the performance of workers
- Bar charts are suitable for:
(A) Minor works (B) Major works
(C) Large projects (D) All of the above
- Which of the following is used for servicing and repairing of the aircraft?
(A) Hanger (B) Terminal building (C) Apron (D) Taxiway
- The runway orientation is made so that landing and take off are:
(A) Against the wind direction (B) Along the wind direction
(C) Perpendicular to wind direction (D) None of the above





D-2 स्थानीय इन्जिनियरिङ, शिभिर्ल, पाँचौ, सब-इन्जिनियर, प्रथम पत्र

1. कोशी प्रदेशको चालु आवधिक योजनाको अन्त्यसम्म आर्थिक वृद्धिदर कति प्रतिशत पुऱ्याउने लक्ष्य लिइएको छ ?
 (A) ७.५५% (B) ७.५६% (C) ७.५७% (D) ७.५८%
12. प्रदेश सञ्चित कोषको सञ्चालन कसले गर्दछ ?
 (A) मुख्यमन्त्री तथा मन्त्रिपरिषद्को कार्यालय (B) आर्थिक मामिला तथा योजना मन्त्रालय
 (C) प्रदेश लेखा नियन्त्रक कार्यालय (D) कोष तथा लेखा नियन्त्रक कार्यालय
13. अख्तियार दुरुपयोग अनुसन्धान आयोगले तल दिइएका व्यक्ति मध्ये कुन व्यक्ति पदमा बहाल रहेको अवस्थामा त्यस्तो व्यक्ति उपर अनुसन्धान गर्न मिल्दैन ?
 (A) महाअभियोग लागि पदमुक्त हुने व्यक्ति (B) न्यायाधीश
 (C) सैनिक ऐन बमोजिम कारवाही हुने व्यक्ति (D) माथिका सबै
14. प्रदेश लोक सेवा आयोगले लिने परीक्षाको पाठ्यक्रम समितिको संयोजक तलका मध्ये को रहने व्यवस्था छ ?
 (A) आयोगको अध्यक्ष (B) आयोगको सचिव
 (C) आयोगले तोकेको आयोगको सदस्य (D) आयोगले तोकेको सम्बन्धित विषयको विज्ञ
15. प्रत्यायोजन भएको अधिकारका सम्बन्धमा तलका कुन भनाई सही हो ?
 (A) काम फत्ते नभएसम्म फिर्ता गर्न मिल्दैन, (B) कहिले पनि फिर्ता गर्न सकिदैन
 (C) जुनसुकै बखत फिर्ता गर्न सकिने छ (D) सरकार परिवर्तन हुनासाथ स्वतः खारेज हुन्छ
16. कोशी प्रदेश सरकारको प्रदेश अनुगमन तथा मूल्याङ्कन समितिको सदस्य सचिवको कार्य कसले गर्दछ ?
 (A) प्रमुख सचिव, मुख्यमन्त्री तथा मन्त्रिपरिषद्को कार्यालय
 (B) सचिव, आन्तरिक मामिला तथा कानून मन्त्रालय
 (C) सचिव, आर्थिक मामिला तथा योजना मन्त्रालय
 (D) सचिव (कानून), मुख्यमन्त्री तथा मन्त्रिपरिषद्को कार्यालय
17. कोशी प्रदेश सुशासन (व्यवस्थापन तथा संचालन) नियमावली, २०७७ बमोजिम कोशी प्रदेशको एउटा सरकारी कार्यालयबाट अर्को सरकारी कार्यालयमा कार्य फर्साईट गर्न "अति जरुरी" लेखी प्राथमिकता तोकिएको आएको अवस्थामा कति दिनभित्र कार्य फर्साईट गरी पठाउनु पर्छ ?
 (A) एक दिन (B) दुई दिन (C) तीन दिन (D) पाँच दिन
18. स्थानीय तहमा काम गर्ने कर्मचारीले "ग" वर्गको भौगोलिक क्षेत्रमा कार्य गरेबापत प्रत्येक वर्ष कति अंक प्राप्त गर्दछन् ?
 (A) प्रत्येक वर्षको १.५ अंकका दरले (B) प्रत्येक वर्षको २ अंकका दरले
 (C) प्रत्येक वर्षको २.५ अंकका दरले (D) प्रत्येक वर्षको ३ अंकका दरले
19. प्रदेश निजामती सेवाको रिक्त सातौं तहको पदमा के कति प्रतिशत पदमा खुल्ला प्रतियोगिताद्वारा पदपूर्ति हुने कानुनी व्यवस्था रहेको छ ?
 (A) १०% (B) ३५% (C) ५०% (D) ६०%
20. स्थानीय तहको गाँउसभा सदस्यको पदमा उम्मेदवार हुन पाउने उमेर कति हो ?
 (A) १८ वर्ष उमेर पुगेको नेपाली नागरिक (B) २१ वर्ष उमेर पुगेको नेपाली नागरिक
 (C) माथिका दुवै (D) माथिका कुनै पनि होइन
21. If the magnetic bearing of a line is 210° and magnetic declination at that place is 4° West, then true bearing of the line is,
 (A) 26° (B) 214° (C) 206° (D) 34°
22. The method of determining the position of the plane table by sighting two known points is called:
 (A) Radiation (B) Resection (C) Intersection (D) Traversing
23. Error in sighting and reading is termed as:
 (A) Instrumental error (B) Personal error (C) Natural error (D) Technical error
24. Contours are useful for:
 (A) The calculation of area (B) The calculation of slopes
 (C) The calculation of volumes of cut and fill (D) All of the above



D-3 स्थानीय इन्जिनियरिङ, सिविल, पॉचो, सब-इन्जिनियर, प्रथम पत्र

25. The strength of stone depends on:
 (A) Chemical composition (B) Degree of packing of constituents
 (C) Structure of rock (D) All of the above
26. The admixture added at the time of preparing the concrete mix to reduce the quantity of water and produce high strength concrete is known as:
 (A) Retarding admixtures (B) Accelerating admixtures
 (C) Air-entraining admixtures (D) Super plasticizer
27. Efflorescence in bricks is caused by:
 (A) A poor firing during manufacture (B) Soluble salts present in the brick
 (C) Excessive water absorption (D) High clay content
28. The paint which gives illumination during night is called:
 (A) Cellulose paint (B) Fluorescent paint
 (C) Enamel paint (D) All of the above
29. The bending moment diagram of a simply supported beam carrying uniformly distributed load over the entire span is a:
 (A) Right angle triangle (B) Square (C) Rectangle (D) Parabola
30. A strut is a member which:
 (A) Connects to joints
 (B) Is subjected to bending moment and shear force along with any axial force
 (C) Is subjected to axial compressive force predominantly
 (D) Is subjected to two shear force predominantly
31. The ratio of weight of fluid to its volume at standard temperature and pressure is called:
 (A) Specific gravity (B) Specific weight
 (C) Specific volume (D) Surface tension
32. The discharge over a rectangular weir is given by the formula:
 (A) $Q = (2/3) C_d \times L \times \sqrt{2g} \times H^{(3/2)}$ (B) $Q = C_d \times L \times \sqrt{2g} \times H^{(3/2)}$
 (C) $Q = (2/3) C_d \times L \times \sqrt{2g} \times H^{(1/2)}$ (D) $Q = (2/3) C_d \times L \times H^{(3/2)}$
33. If velocities of fluid particles vary from point to point in magnitude and direction as well as from instant to instant, the flow is said to be:
 (A) Non-uniform flow (B) Turbulent flow
 (C) Laminar flow (D) Uniform flow
34. The relation between void ratio e , specific gravity G , water content w , and degree of saturation S is given by:
 (A) $e = \frac{wG}{S}$ (B) $e = \frac{SG}{w}$ (C) $e = \frac{wS}{G}$ (D) $e = wGS$
35. The maximum dry density occurs at a particular water content, which is known as:
 (A) Optimum moisture content (B) Maximum moisture content
 (C) Low moisture content (D) Water content
36. Which of the following is practically impermeable?
 (A) Gravel (B) Sand mixture (C) Clay (D) Coarse sand





D-4 स्थानीय इन्जिनियरिङ, सिभिल, पाँचौ, सब-इन्जिनियर, प्रथम पत्र

37. The ultimate bearing capacity of soil is:
(A) Total load on the bearing area (B) Safe load on the bearing area
(C) Load at which soil fails (D) Load at which soil consolidates
38. An under reinforced section means:
(A) Steel is provided at the under side only (B) Steel provided is insufficient
(C) Steel provided on one face only (D) Steel will yield first
39. The amount of reinforcement for main bars in a slab is based upon:
(A) Minimum shear force (B) Maximum shear force
(C) Minimum bending moment (D) Maximum bending moment
40. Maximum percentage reinforcement in case of slabs is limited to:
(A) 1 (B) 4 (C) 8 (D) 12
41. Which type of foundation is most suitable for a building on black cotton soil?
(A) Isolated footing (B) Combined footing
(C) Raft foundation (D) Pile foundation
42. In brick masonry, the bond produced by laying alternate headers and stretchers in each course is known as:
(A) English bond (B) Double Flemish bond
(C) Flemish bond (D) Garden wall bond
43. The method of damp proofing in which a layer of water repellent substance is provided between the source of dampness and part of structure adjacent to it, is known as:
(A) Surface treatment (B) Integral damp proof
(C) Membrane damp proof (D) Guiniting
44. Which method is the most common and cheaper for water curing?
(A) Ponding (B) Sprinkling (C) Mist curing (D) Wet covering
45. Break-pressure tank is generally provided in rural water supply schemes, if static head exceeds:
(A) 30 m (B) 40 m (C) 50 m (D) 60 m
46. The standard permissible limit of turbidity in drinking water is:
(A) 1 NTU (B) 5 NTU (C) 10 NTU (D) 50 NTU
47. Before discharging the foul sewage into rivers, it is generally treated by:
(A) Oxidation (B) Sedimentation
(C) Screening (D) All of the above
48. The "outlet discharge factor" is the duty at the head of:
(A) Main canal (B) Branch canal
(C) Water course (D) Distributory
49. A structure constructed transverse to the river flow and extended from the bank in the river is called:
(A) Spur (B) Sluice (C) Berm (D) Apron
50. A structure constructed on an irrigation canal for the purpose of wasting some of its water is known as:
(A) Canal escape (B) Canal head regulator
(C) Canal fall (D) Divide wall

<<समाप्त>>

उत्तरपुस्तिकामा प्रश्नपत्रको KEY अनिवार्य रूपले उल्लेख गर्नुपर्नेछ । KEY उल्लेख नगरेमा उत्तरपुस्तिका रद्द हुने

