

प्रदेश लोक सेवा आयोग

बागमती प्रदेश

इञ्जिनियरिङ सेवा, सिभिल समूह, पाँचौं तह, सब इञ्जिनियर पदको सुत्ता प्रतियोगितात्मक लिखित परीक्षा-२०७८

परीक्षा मिति: २०७८/११/१२

पूर्णाङ्क: १००

समय: ४५ मिनेट

KEY (D)

विषय: सेवा सम्बन्धी

बस्तुगत बहुवैकल्पिक प्रश्न (Multiple Choice Questions)(१०×२ अङ्क):

उत्तरपुस्तिकामा प्रश्नपत्रको KEY अनिवार्य रूपले उल्लेख गर्नु पर्नेछ। KEY उल्लेख नगरेमा उत्तरपुस्तिकामा रद्द हुनेछ। साथै परीक्षामा Calculator, Mobile, Smart watch लगायतका विपरीत उपकरणहरू प्रयोग गर्न पाइने छैन।

- The main function of a diversion head works of a canal from a river, is:
(A) to remove silt (B) to control floods
(C) to store water (D) to raise water level
- The important watering of crops is called:
(A) Crop watering (B) Kor watering
(C) Paleo watering (D) Both (A) and (C)
- The irrigation canals are generally aligned along:
(A) Ridge line (B) Contour lone
(C) Valley line (D) Straight line
- Any gradient on a road is said to be an exceptional gradient, if it is:
(A) more than ruling gradient (B) less than average gradient
(C) more than floating gradient (D) less than minimum gradient or more than maximum gradient
- are fall-under the administrative classification of road in Nepal.
(A) Highways (B) Feeder roads
(C) Urban roads (D) All of the above
- In the penetration macadam construction the bitumen is:
(A) sprayed after the aggregates are spread and compacted.
(B) premixed with aggregate and then spread.
(C) sprayed before the aggregates are spread and compacted.
(D) None of the above
- Design of horizontal and vertical alignments, super-elevation, sight distance and grades, is worst affected by:
(A) width of the vehicle (B) length of the vehicle
(C) height of the vehicle (D) speed of the vehicle
- Which of the following is not a classification of labour?
(A) Skilled first class (B) Skilled second class
(C) Unskilled (D) Unskilled fourth class
- As per Public Procurement Regulation, 2064, while estimating any consulting services the "price adjustment contingency" is taken as:
(A) 5% of consulting service cost (B) 10% of consulting service cost
(C) 15% of consulting service cost (D) 20% of consulting service cost
- The brick work is not measured in cu m in case of:
(A) One or more than one brick wall (B) Brick work in arches
(C) Reinforced brick work (D) Half brick work

11. The salvage value of any structure is:
 (A) Less than scrap value (B) More than scrap value
 (C) Equal to scrap value (D) None of the above
12. Working drawing is not prepared for:
 (A) developing specifications (B) contractors to plan the construction works
 (C) providing instructions on site (D) the procurement of components
13. CPM technique has the main features:
 (A) To predict the time required for the activity (B) Predict the time required for the event
 (C) Do not help to find the relation of resource (D) None of the above
14. Which of the following is not a part of bid document:
 (A) Bill of quantity (B) Drawings (C) Specifications (D) Performance security
15. Which of the following contract types is usually followed by government organization in Nepal?
 (A) Lump sum (B) Percentage rate (C) Item rate (D) Piece work
16. Frederick W. Taylor introduced a system of working, is known as:
 (A) Line organization (B) Line and staff organization
 (C) Functional organization (D) Effective organization
17. Write the correct indirect speech for the following direct expression:
 He said to her, "Don't read so fast."
 (A) He told her not to read so fast.
 (B) He advised her don't read so fast.
 (C) He requested her not to read so fast.
 (D) He ordered her not to read so fast.
18. Fill in the blanks in the following sentence with suitable words (choose the alternative).
 He from the University in 2007. Then, he two years in the government job.
 (A) has graduated/has spent (B) had graduated/has spent
 (C) has graduated/spent (D) graduated/spent
19. तलका शब्दहरूमध्ये शुद्धसँग लेखिएको शब्द कुन हो?
 (A) प्रादुर्भाव (B) प्रादुर्भाव (C) भादुरभाव (D) प्रादुर्भाव
20. तल उल्लिखित शब्दहरूमा 'व' र 'ब' शुद्ध प्रयोग भएका शब्दहरू कतिजोटा छन्?
 विकल्प, वैज्ञानिक, वेधशाला, अबोध, वन्दुवान्धव, विकास, गौरव र बैठक
 (A) ३ (B) ४ (C) ५ (D) ६
21. Closed contours of decreasing values towards their centre, represent:
 (A) a hill (B) a depression (C) a saddle or pass (D) a river bed
22. If the plane table is not horizontal in a direction at right angles to the alidade, the line of sight is parallel to the fiducial edge only for:
 (A) Horizontal sights. (B) Inclined sights upward
 (C) Inclined sights downward (D) None of these
23. Principle of surveying is:
 (A) To work from part to whole
 (B) Location of point by measurement from two control points.
 (C) Location of point by measurement from two unknown points
 (D) All of the above

24. The most ~~fire~~ fire resistant paints are:
 (A) enamel paints (B) aluminum paints
 (C) asbestos paints (D) cement paints
25. Painting work is usually specified by:
 (A) Volume of painted surface (B) Weight of paint applied
 (C) Area and thickness of painted surface (D) Quality of painted surface
26. Which bitumen does not need heating?
 (A) Paving grade (B) Cut back (C) Modified (D) Bitumen emulsion
27. Distemper is:
 (A) a paint consisting of powdered chalk, pigments, and water (B) a water proofing agent
 (C) A paint consisting of coloured cement and water (D) a drying agent
28. The moment diagram for a cantilever whose free end is subjected to a bending moment, will be a:
 (A) triangle (B) rectangle (C) parabola (D) cubic parabola
29. The ability of a material to resist plastic deformation known as:
 (A) Tensile strength (B) Yield strength
 (C) Modulus of elasticity (D) Impact strength
30. A simply supported beam of span 'L' carries a uniformly distributed load 'W' across the span. The maximum bending moment 'M' is:
 (A) $\frac{WL^2}{2}$ (B) $\frac{WL^2}{4}$ (C) $\frac{WL^2}{8}$ (D) $\frac{WL^2}{16}$
31. A flow, in which the quantity of liquid flowing per second is constant, is called flow.
 (A) steady (B) streamline (C) turbulent (D) unsteady
32. The thickness of a sharp crested weir is kept less than:
 (A) One-third of the height of water on the sill (B) One-half of the height of water on the sill
 (C) One-fourth of the height of water on the sill (D) Two-third of the height of water on the sill
33. Newton's law of viscosity relates:
 (A) Shear stress and rate of angular deformation (B) Pressure and rate of angular deformation
 (C) Shear stress, velocity and temperature (D) None of these
34. The volume of liquid weighing 3000 kg is 4 cubic metres, 0.75 is its:
 (A) Specific weight (B) Specific mass (C) Specific gravity (D) None of the above
35. The quantity of seepage of water through soils is proportional to:
 (A) coefficient of permeability soil (B) total head loss through the soil
 (C) neither (A) nor (B) (D) both (A) and (B)
36. The ratio of the volume of voids to the total volume of the given soil mass, is known:
 (A) porosity (B) specific gravity (C) void ratio (D) water content
37. A soil mass is said to be:
 (A) two phase system with soil and water (B) two phase system with soil and air
 (C) three phase system with soil, water and air (D) None of the above
38. Terzaghi's bearing capacity factors N_c , N_q and N_r are function of:
 (A) cohesion only (B) angle of internal friction only
 (C) both cohesion and angle of internal friction (D) None of the above

39. The ratio of diameter of reinforcing bars and the slab thickness should be greater than:
 (A) $\frac{1}{5}$ (B) $\frac{1}{6}$ (C) $\frac{1}{7}$ (D) $\frac{1}{8}$.
40. The amount of reinforcement for main bars in a slab, is based upon:
 (A) maximum bending moment (B) maximum shear force
 (C) minimum bending moment (D) minimum shear force
41. As per IS:456, the column is considered as short column if its slenderness ratio is less than:
 (A) 12 (B) 15 (C) 18 (D) 24
42. The formwork should be sufficiently strong enough to bear the weight of concrete as well as the weights of the equipment, labour, etc.
 (A) live load. (B) dead load (C) wind load (D) snow load
43. The brick laid with its breadth parallel to the face of a wall, is known as:
 (A) Header, (B) Stretcher (C) Closer (D) None of these
44. The entrapped air in concrete:
 (A) Increases strength (B) Increases durability
 (C) Increases workability (D) All of the above
45. Pick up the incorrect statement from the following:
 (A) The width of the wall is constructed thicker at the base in a stepped fashion.
 (B) A long vertical load transferring concrete structure is called a concrete pile.
 (C) In pile which transfer the load to the soil by the friction between the pile and the surrounding soil is called friction pile.
 (D) The pile which transfers the load to a hard rock bed at certain depth is called load bearing.
46. The type of ashlar masonry in which stones are finely chisel dressed and thickness of joints does not exceed 3 mm, is:
 (A) Chamfered ashlar. (B) Ashlar facing masonry
 (C) Random coursed ashlar masonry (D) Coursed ashlar masonry
47. The most ideal disinfectant used for drinking water throughout the world, is:
 (A) Alum (B) Lime (C) Chlorine. (D) Nitrogen
48. Which reservoir is helpful in permitting the pumps or the water treatment plants to work at a uniform rate?
 (A) Storage reservoir (B) Detention reservoir
 (C) Multipurpose reservoir (D) Distribution reservoir
49. Septic tank is provided for:
 (A) Collection of incoming sewage. (B) Digestion of sewage and settle down
 (C) Storage of digested sludge (D) All of the above
50. Water supply system includes:
 (A) digging of well for water (B) construction of dams
 (C) construction of canals (D) entire arrangement from source to distribution.

•समाप्त•

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