

प्रदेश लोक सेवा आयोग

गण्डकी प्रदेश

नेपाल इन्जिनियरिंग सेवा, शिबिर सगृह, चौथो तह, असिस्टेन्ट सव-इन्जिनियर पदको खुला प्रतियोगितात्मक लिखित परीक्षा (स्थानीय तह)

परीक्षा मिति: २०७८/०८/२०

Key (C)

समय: ४५ मिनेट

विषय: सेवा सम्बन्धी ।

पूर्णाङ्क: १००

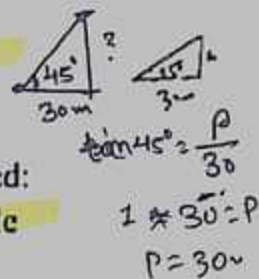
वस्तुगत बहुवैकल्पिक (५० प्रश्न X २ अङ्क):

उत्तरपुस्तिकामा प्रश्नपत्रको Key अनिवार्य रूपले उल्लेख गर्नुपर्नेछ । उल्लेख नगरेमा उत्तरपुस्तिका रद्द हुनेछ । साथै परीक्षामा Calculator, Mobile जस्ता विद्युतीय उपकरणहरू प्रयोग गर्न पाइने छैन ।

- If top, front and side views of an object are circular, the object is,
A. Rectangular block.
B. Sphere
C. Circular plane
D. None of the above
- The actual length of a line in field and the drawing are 100 meters and 5cm respectively. Find the scale of drawing:
A. 1:2000
B. 1:200
C. 1:20
D. 1:20000
- Standard size of Drawing Board D1 is:
A. 1500*1000
B. 1000*700
C. 700*500
D. 1000*1200
- Brick walls are measured in square meter if the thickness of the wall is:
A. 10cm
B. 15cm
C. 20cm
D. None of the above
- The technique of findings the fair market price of an existing property at specified point of time is known as:
A. Estimation
B. Valuation
C. Pricing
D. Final billings
- The bearings of the lines AB and BC are 130° and 50° respectively. The included angle ABC is:
A. 50°
B. 100°
C. 30°
D. 180°
- The fundamental principle of surveying is to work from the:
A. Part to whole
B. Whole to part
C. Lower point to higher point
D. All of the above
- Reciprocal ranging is adopted when which of the following is encountered during surveying?
A. a dense forest
B. a hillock
C. a river
D. a tail building
- The detention period of a Septic Tank is:
A. 2 hours
B. 1 week
C. 12 to 36 hours
D. 1 month
- Which device is used to protect the wiring form short circuit fault?
A. MCB
B. Ameter
C. Multimeter
D. Isolator
- According to national drinking water quality standard of Nepal, the turbidity value of drinking water should be between:
A. 4-8 NTU
B. 5-10 NTU
C. 6-12 NTU
D. 7-14 NTU

12. According to the functional classification of road as specified in the Nepal Road Standard 2070, roads are classified into categories.
 A. 3 B. 4 C. 5 D. 6
13. The end supports of a bridge super structure are called:
 A. Wing walls B. Deck
 C. Abutments D. Piers
14. A wall constructed to retain the earth from slippage on hillside of a roadway is called:
 A. Breast wall B. Retaining wall
 C. Parapet wall D. Dwarf wall
15. Which one is not the component of the rural gravity water supply system?
 A. Washout valve B. Air-released valve
 C. Break pressure tank D. Overhead tank
16. Based on the span, trail bridges are categorized into categories.
 A. 2 B. 3 C. 4 D. 5
17. For a most economical trapezoidal channel section:
 A. Hydraulic mean radius equals to depth of flow
 B. Hydraulic mean radius equals to half depth of flow $m = d/2$
 C. Bottom width is twice the depth of flow
 D. Bottom width is half the depth of flow
18. The angular steps for changing direction of the stairs are known as:
 A. Radial steps B. Angle steps
 C. Round steps D. Winders
19. Minimum water-cement ratio required for a workable concrete is:
 A. 0.30 B. 0.40 C. 0.50 D. 0.60
20. Bulking of sand is maximum if moisture content is about:
 A. 2% B. 3% C. 4% D. 5%
21. Reciprocating pumps are suitable for:
 A. Low discharge and high head B. High discharge and low head
 C. High discharge and high head D. Low discharge and low head
22. M10 grade of concrete approximates:
 A. 1:3:6 mix B. 1:2:4 mix
 C. 1: 1.5 :3 mix D. 1:1:2 mix
23. The main factor to be considered while preparing a detailed cost estimate is:
 A. Quantity of materials B. Availability of materials
 C. Transportation of materials D. All of the above
24. Total length of CGI sheet in bundle is:
 A. 60 feet B. 70 feet C. 62 feet D. 72 feet
25. Which is not a part of rate analysis?
 A. Labour cost B. Cost of material
 C. Value Added Tax D. Contractor's overhead
26. The sum of amount required to be deposited by a contractor while submitting a tender is known as:
 A. Recurring deposit B. Fixed deposit
 C. Security deposit D. Earnest money deposit

27. The slump test of two samples of concrete shows slump value of 50mm and 100mm. Choose the correct statement.
- A. Concrete with slump value 50mm is more workable.
 B. Concrete with slump value 100mm is more workable.
 C. Slump test is not useful.
 D. Both concrete samples are equally workable
28. Isogonic lines are the lines having the same value of:
- A. Elevation B. Bearing C. Dip D. Declination
29. A total station measures vertical angle of 45° from a point on land to the top of a pole that lies 30m far. The height of the pole is:
- A. 20m B. 51m C. 15m D. 30m
30. If the whole circle bearing of a line is 180° its reduced bearing is:
- A. $S0^\circ E$ B. $S0^\circ W$ C. S D. N
31. A fittings used to connect the service pipelines with the water main is called:
- A. Collar B. Trap C. Nipple D. Ferrule
32. The function of launching apron in River Training is:
- A. To prevent the scouring of bed and protect River Training Works-
 B. To cover the River Bed
 C. To utilize the extra stone material
 D. To economize the length of River Training Works
33. Long Span Trail Bridge (LSTB) required norms standards and technologies to design both D & N type bridge having length:
- A. $> 60m$ B. $> 90m$ C. $> 120m$ D. $> 150m$
34. A masonry wall of a room can be made earthquake resistant by providing:
- A. RCC Band of width equal to the wall thickness
 B. RCC Band of width equal to the length of wall
 C. RCC Band of width equal to the height of room
 D. A masonry wall doesn't need any treatment against earthquakes
35. The modular ratio for design purposed of M20 concrete is taken as:
- A. 18.67 B. 13.33 C. 10.98 D. 12.67
36. The formwork for the sides of beams can be removed only after:
- A. 1 day ~~2 days~~ B. 4 days C. 7 days D. 14 days (7 days permissible)
37. Lines which are continuous thin lines and are drawn at an angle of Forty five degree to the main outline of the section is called:
- A. Dimension lines B. Extension lines
 C. Section lines D. Visible outlines
38. Which one is the enlarging scale in scale of drawing?
- A. 1:1 B. 2:1 C. 1:2 D. 1:10
39. The preparation of surface of stones to obtain plain edges or to obtain stone of required shape and size is known as:
- A. Pitching B. Quarrying
 C. Seasoning D. Dressing



40. The function of plasticizer admixture in concrete is:
 A. To increase the freeze-thaw durability of concrete
 B. To delay the initial setting time of concrete
 C. To speed up the setting time of concrete
 D. To reduced water content and improve workability of concrete
41. After storage for long time, the strength of cement:
 A. Increases
 B. Remains same
 C. Decreases
 D. May increase or decrease
42. The liquid part of the paint is called:
 A. Vehicle
 B. Solvent
 C. Solute
 D. Drier
43. An aggregate is said to be flaky if its least dimension is less than.....
 A. $1/5^{\text{th}}$ of mean dimension
 B. $2/5^{\text{th}}$ of mean dimension
 C. $3/5^{\text{th}}$ of mean dimension
 D. $4/5^{\text{th}}$ of mean dimension
44. Quartzite is a:
 A. Igneous rock
 B. Sedimentary rock
 C. Metamorphic rock
 D. All of the above
45. Which paints are most resistant to fire?
 A. Enamel paints
 B. Aluminium paints
 C. Cement paints
 D. Asbestos paints
46. The specific gravity of cement is about:
 A. 2.15
 B. 3.15
 C. 4.15
 D. 1.15
47. The second part of present constitution of Nepal deals about:
 A. President of Nepal
 B. National Flag
 C. National Anthem
 D. Citizenship of Nepal
48. According to the Local Government Operation Act 2074, a person or government office who has been given permission to construct a building from the local level should complete the construction of the building within:
 A. 15 months
 B. 18 months
 C. 24 months
 D. 36 months
49. How many fundamental rights are mentioned in present constitution of Nepal?
 A. 27
 B. 31
 C. 36
 D. 40
50. The internal angle of a regular hexagon is:
 A. 150°
 B. 75°
 C. 180°
 D. 120°