सन्धि एकेडेमी
SANDHI
EDUCATION ACADEMY

इन्जिनियरिङ सेवा, सिभिल समुह, जनरल/स्यानिटरी/इरिगेसन उपसमुह, पाँचौ तह, सब इन्जिनियर पदको खुला तथा समावेशी प्रतियोगितात्मक लिखित परीक्षाको नमुना परिक्षा

मिति:२०८२।०४।१०

Key-C

समय: ४५ मिनेट   विषय: सेवा सम्बन्धि ज्ञान ।   पूर्णांक: १००

वस्तुगत बहुउत्तर (५०x२ अंक)

उतरपुस्तिकामा प्रश्नपत्रको **Key** अनिवार्य रुपले उल्लेख गर्नु पर्ने छ। उल्लेख नगरेमा उतरपुस्तिका रद्द हुनेछ। परीक्षामा **Calculator, Mobile** प्रयोग गर्न पाइने छैन। सहि उत्तरको लागि प्रति प्रश्न २ अंक प्रदान गरिनेछ भने गलत उत्तर दिएमा प्रतिप्रश्न ०.४ अङ्क कट्टा गरिनेछ।

1. **The line formed by joining the points of equal altitude is known as:**
   A. Isohar   B. Isotherm   C. Isometry   D. Contour
2. **Principles of surveying is**
   A. process of finding relative position   B. measuring distance
   C. setting up map   D. all of the above
3. **The Two Point Problem' is encountered in**
   A. plane table surveying   B. chain surveying
   C. compass surveying   D. theodolite surveying
4. **On a diagonal scale, it is possible read up to**
   A. One dimensional   B. two dimensional
   C. Three dimensional   D. Four dimensional
5. **The line normal to the plumb line is known as**
   A. Horizontal line   B. Level line   C. Datum line   D. Vertical line
6. **Plaster of pairs is obtained by calcining**
   A. Bauxite   B. Gypsum   C. Kankar   D. Lime stone
7. **Good quality cement contains higher percentage of**
   A.   Tri-calcium silicates   B. Di-calcium silicates
   C.   Tri-calcium aluminates   D. Tetra calcium alumino ferrite
8. **Refractory bricks resists**
   A.   High temperature   B. Dampness
   C. Chemical action   D. All of the above
9. **Early strength to cement provided by**
   A.   Tricalcium silicites   B. Di calcium silicates
   C.   Tricalciu aluminate   D. Tetra calcium alumino ferrite
10. **In the case of normal concretes, approximately how much quantity of water is required to hydrate 1 gram of cement?**
    A. 0.235   B. 0.253   C. 0.532   D. 0.325
11. **Gypsum is a**
    A. slow setting material   B. quick setting material
    C. setting agent   D. heat resisting material
12. **The R.F. of scale is always**
    A. less than 1   B. equal to 1   C. greater than 1   D. any of these

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तयारी कक्षाको भरपर्दो स्थान - सन्धि एजुकेसन एकेडेमी, बागबजार, ☎ :- ९८५११३६५६०

13. **Hidden lines are drawn as**
    A. dashed narrow lines
    B. dashed wide lines
    C. long-dashed dotted wide line
    D. long-dashed double dotted wide line
14. **The angle which we can't make using a single set-square is**
    A. 45º
    B. 60º
    C. 30º
    D. 75º
15. **The standard size of drawing board of designation D1 is (in mm)**
    A. 1500 × 1000 × 25
    B. 1000 × 700 × 25
    C. 700 × 500 × 15
    D. 500 × 350 × 15
16. **The main purpose of the working drawing is:**
    A. to facilitate the construction at site
    B. to prepare the bill of quantities and detailed estimate
    C. to record the design implementation
    D. all of the above
17. **On wetting, cohesive soil**
    A. Loose permeability
    B. Gain shear strength
    C. Loose elasticity
    D. Decrease their shear strength
18. **The angle of internal friction is maximum for**
    A. Angular grain dense sand
    B. Angular grain loose sand
    C. Round grain dense sand
    D. Round grain loose sand
19. **Expansion joint in masonry wall are provided if length exceed**
    A. 10 meter
    B. 20 meter
    C. 30 meter
    D. 40 meter
20. **The nominal thickness of the brick wall in mm is,**
    A. 90 mm
    B. 150 mm
    C. 190 mm
    D. 200 mm
21. **The members which support covering material of a sloping roof, are**
    A. rafters
    B. purlins
    C. battens
    D. struts.
22. **Bearing capacity of soil can not be improved by**
    A. Draining sub soil water
    B. Driving sand piles
    C. Ramming crushed stone in soil
    D. Watering surface of soil
23. **The nominal thickness of an expansion joint in brick walls, is kept more than**
    A. 5 mm
    B. 10 mm
    C. 15 mm
    D. 20 mm
24. **The coagulant widely used for sewage treatment, is**
    A. alum
    B. ferric chloride
    C. ferric sulphate
    D. chlorinated copperas
25. **Water for domestic use should have**
    A. sweet smell
    B. faint smell
    C. inoffensive smell
    D. no smell
26. **Turbidity of raw water is a measure of**
    A. suspended solids
    B. acidity of water
    C. B.O.D
    D. none of the above
27. **Water required per head per day for average domestic purpose, is**
    A. 50 liters
    B. 65 liters
    C. 85 liters
    D. 135 liters
28. **A Canal in which aligned at right angle to the contour is called.**
    A. Branch canal
    B. Side slope canal
    C. Contour canal
    D. none of these
29. **Lengths of tunnel of Bheri Babai Diversion Multi-Purpose Projects is**
    A. 8 km
    B. 10 km
    C. 12 km
    D. 15 km
30. **Loss of canal discharge occurs mainly due to?**
    A. Seepage and Percolation
    B. Percolation and Absorption
    C. Seepage and Evaporation
    D. Seepage and Absorption
31. **The safety valve of a dam is its**
    A. drainage gallery
    B. inspection gallery
    C. spillway
    D. outlet sluices

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32. **The camber provided for earthen road, is**
A. 7 %   B. 5 %   C. 4 %   D. 3 %
33. **The maximum percentage of grade compensation should be**
A. 60/R   B. 70/R   C. 75/R   D. 80/R
34. **The portion of road that is used pedestrains only is called**
A. Side walk   B. Footpath   C. Foot way   D. All of the above
35. **The minimum value of camber provided for thin bituminous surface hill roads, is**
A. 2.2 %   B. 2.5 %   C. 3.0 %   D. 3.5 %
36. **If the cross slope of a country is 25 % to 60 %, the terrain is classified as**
A. Plain   B. Rolling   C. Steep   D. Mountainous
37. **The types of curves generally provided on highway is**
A. Critical curve   B. Transition curve   C. Vertical curve   D. All of the above
38. **On earth roads, the camber should preferably be**
A. 1 in 20 to 1 in 24   B. 1 in 30 to 1 in 48
C. 1 in 15 to 1 in 20   D. 1 in 10 to 1 in 15
39. **The minimum width of a urban road, considering allowance for a stalled vehicle:**
A. 2.5 m   B. 3.5 m   C. 4.5 m   D. 5.5 m
40. **The unit of measurements for scaffolding is .**
A. Meter   B. Square meter   C. Cubic meter   D. Lump sump
41. **For electric wiring such as fan, light, plug etc. the estimate is made in terms of**
A. type of point   B. costing
C. total load at main switch in kw   D. total length of wiring in meters
42. **Value added tax (VAT) is generally taken as by Government of Nepal**
A. 10%   B. 12%   C. 13%   D. 15%
43. **The document in which the quality of the work or material mentioned is termed as**
A. detailed estimate   B. specification   C. norms   D. bill of quantities
44. **Contingencies in cost estimate is provided for the sake of meeting the cost related to**
A. unforeseen costs   B. work charge establishment cost
C. both A and B   D. transportation cost
45. **Original cost of property minus deprecation is:**
A. book value   B. salvage value   C. readable value   D. obsolesce value
46. **The rate of an item of works depends on**
A. Specification of works   B. Materials and their availability
C. Methods of construction   D. All of the above
47. **The unit of measurement of partition wall is in**
A. square meter   B. Cubic meter   C. Running meter   D. Quintal
48. **PERT technique of network analysis is mainly useful for**
A. Small projects   B. Large and complex projects
C. Research and development projects   D. Deterministic activities
49. **Physical contingency according to PPR -064 is**
A. 3-5%   B. 8%   C. 5%   D. 10%
50. **A quality assurance plan is prepared and submitted by**
A. Contractor   B. Consultant   C. Employer   D. None

उत्तर पुस्तिकामा प्रश्रपत्रको Key अनिवार्य रुपले उल्लेख गर्नुपर्नेछ । उल्लेख नगरेमा उत्तर पुस्तिका रद्द हुनेछ ।

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