

प्रदेश लोक सेवा आयोग

बागमती प्रदेश

इन्जिनियरिङ सेवा, सिभिल समूह, चौथो चरण, अस्टिचुट सब-इन्जिनियर पदको

सुत्ता प्रतियोगितात्मक लिखित परीक्षा - २०७८

परीक्षा मिति: २०७८/१२/२६

KEY (C)

विषय: सेवा सम्बन्धी

पूर्णाङ्क: १००

समय: ४५ मिनेट

बस्तुगत बहुवैकल्पिक प्रश्न (Multiple Choice Questions) (५०x२ अङ्क):

उत्तरपुस्तिकामा प्रश्नबन्धको KEY अनिवार्य रूपले उल्लेख गर्नु पर्नेछ। KEY उल्लेख नगरिमा उत्तरपुस्तिका रद्द हुनेछ। साथै परीक्षामा Calculator, Mobile, Smart watch लगायतका विद्युतीय उपकरणहरू प्रयोग गर्न पाइने छैन।

- The lime which has the property of setting in water is known as:  
(A) Fat lime (B) Hydraulic lime (C) Hydrated lime (D) Quick lime
- The vehicle used in case of enamel paint is:  
(A) Varnish (B) Linseed oil (C) Water (D) All of these
- The aggregate is called coarse aggregate if it is completely retained on:  
(A) 10 mm sieve (B) 15 mm sieve (C) 29 mm sieve (D) 4.75 mm sieve
- According to NS, in 1 cu.m. brick masonry the number of bricks required is:  
(A) 450 (B) 500 (C) 530 (D) 560
- What is the size of fine aggregate?  
(A) 4.75 mm (B) <4.75 mm (C) >4.75 mm (D) 12 mm
- The minimum number of longitudinal steel bars in RCC circular column must be:  
(A) 2 (B) 4 (C) 6 (D) 8
- OHS is short form of:  
(A) Occasion health & standard (B) Occupation health standard  
(C) Occasion hazards safety (D) Occupational health & safety
- Concrete placed in cold weather will take ..... time to gain strength.  
(A) No (B) Less (C) More (D) Equal to hot weather
- While considering the design of R.C.C buildings for providing ductility, the minimum grade of concrete limited by the code is:  
(A) M10 (B) M20 (C) M35 (D) M50
- A temporary structure having platforms to enable masons to work at different level of a building is known as:  
(A) Under pinning (B) Shearing (C) Scaffolding (D) Rocking
- Inert material of concrete is:  
(A) Water (B) Cement (C) Aggregate (D) Admixture
- For plastering work on ceiling, type of mortar generally used is:  
(A) 1:6 (Cement: Sand) (B) 1:4 (Cement: Sand)  
(C) 1:3 (Cement: Sand) (D) 1:5 (Cement: Sand)

13. A sewer which receives the discharge from number of houses, then the sewer is called:  
 (A) Trunk Sewer (B) Lateral Sewer  
 (C) Intercepting Sewer (D) House connection
14. Which of the following is not a component of plumbing water supply system?  
 (A) Wash basin (B) Valves  
 (C) Storage tanks (D) Water supply and distribution pipes
15. Which accessories are used to change the direction of flow in pipe is:  
 (A) Water meter (B) Pipe (C) Cocks (D) Fittings
16. Rural water supply systems in Nepal should be planned and designed for design periods of:  
 (A) 1 to 5 years (B) 5 to 10 years  
 (C) 10 to 15 years (D) 15 to 20 years
17. A river training work is generally required when the river is:  
 (A) meandering (B) aggrading  
 (C) degrading (D) all of the above
18. What is the first step in road construction after paper work?  
 (A) Evaluation (B) Bill of quantities (C) Surveying (D) Estimation
19. In irrigation system, a hydraulic structure is designed to withstand:  
 (A) Seepage (B) Hydraulic jump (C) Hydraulic pressure (D) All of these
20. Nepal Road Standard, 2070(Revised) shall apply to all ..... roads being constructed in Nepal.  
 (A) Urban Roads (B) Strategic Roads (C) District Roads (D) All of these
21. pH value of safe drinking water should be:  
 (A) 6.5 to 8.5 (B) 5.5 to 7.0  
 (C) 7.0 to 9.5 (D) 5.5 to 9.5
22. An underground passage used by pedestrians is called:  
 (A) Sub way (B) Flyover (C) Driver way (D) Service road
23. The main function of retaining wall is:  
 (A) stabilize hillsides (B) control erosion  
 (C) to reduce grades of roads (D) all of the above
24. स्थानीय सरकार सभाले ऐन, २०७४ बमोजिम उपाध्यक्ष, उपप्रमुख वा कार्यपालिकाले तोकेको कार्यपालिकाको कुनै सदस्यले आगामी आर्थिक वर्षको राजस्व र व्यय (बजेट) को अनुमान कार्यपालिकाबाट स्वीकृत गराई कहिलेसम्म सभामा पेश गर्नुपर्ने व्यवस्था छ?  
 (A) जेठ पन्द्र गते भित्र (B) असार एक गते भित्र  
 (C) असार दश गते भित्र (D) असार पन्द्र गते भित्र
25. गाउँ सभा र नगर सभाले अनुसूची-८ र अनुसूची-९ बमोजिमका सूचीमा उल्लिखित विषयमा आवश्यक कानून बनाउने प्रक्रिया प्रदेश कानून बमोजिम हुनेछ, भनी नेपालको संविधानको कुन धारामा व्यवस्था गरिएको छ?  
 (A) धारा २१४ (B) धारा २२०  
 (C) धारा २२६ (D) धारा २२७
26. संघ र प्रदेश सरकारका साझा अधिकार सूची नेपालको संविधानको कुन अनुसूचीमा उल्लेख छ?  
 (A) अनुसूची-५ (B) अनुसूची-६  
 (C) अनुसूची-७ (D) अनुसूची-९

27. Fill in the blank with the correct answer from the options given below in the sentence: "The woman .....you met is a software architecture."  
 (A) that (B) which (C) who (D) whom
28. Fill in the blank with the most suitable word from the alternatives given below  
 "..... it rained a lot, we enjoyed our holiday."  
 (A) Although (B) Because (C) Because of (D) In spite of
29. तलका शब्दहरूमध्ये कुन अशुद्ध लेखिएको छ?  
 (A) सार्वजनिक सूची (B) प्रदूषित सहर (C) वर्षाको सम्भावना (D) सक्ती सम्भवलाई
30. "भुजोत्त मोन्दैव, त्वसर्वाइ परिवर्तन मन सकिदैव।" भन्ने वाक्यमा अशुद्ध शब्द कतिभन्दा छन्?  
 (A) ४ (B) ३ (C) २ (D) ५
31. A circle will appear on an isometric drawing as a (n).  
 (A) ellipse (B) cycloid (C) circle (D) parabola
32. The main purpose of as built drawing is:  
 (A) maintenance of service work (B) dimensioning  
 (C) profession (D) to award tender
33. The ratio of the length of the drawing of the object to the actual length of the object is called.  
 (A) Resulting fraction (B) Representative figure  
 (C) Representative fraction (D) Representative Index
34. The projection of any object on the horizontal plane is called:  
 (A) Section (B) Elevation (C) Plan (D) All of these
35. Which of the following is not a drawing hand tool?  
 (A) French Curve (B) Straight edge (C) Alidade (D) Set square
36. Rate analysis of any item of work is carried out on the basis of:  
 (A) Length, Breadth and Height (B) Procurement document  
 (C) Approved Norms (D) All of the above
37. Working out of exact quantities of various items of work is known as:  
 (A) estimating (B) mensuration  
 (C) quantity surveying (D) valuation
38. Which of the following is the most correct estimate?  
 (A) Plinth area estimate (B) Cube rate estimate  
 (C) Item rate estimate (D) Building cost index estimate
39. Galvanizing means covering iron with a thin coat of:  
 (A) zinc (B) tin (C) glaze (D) coal tar
40. The main objective of estimation is:  
 (A) To find out various materials, equipment and labour required.  
 (B) To find out probable cost of the project work.  
 (C) To find out the expected time of completion of the project work.  
 (D) To help the supervision of project work.
41. The technique of plotting all the accessible stations with a single set up of plane table is called:  
 (A) Radiation (B) Intersection (C) Resection (D) Traversing

42. Locating the position of a plane table station with reframe to 3 known points is known as:  
 (A) Intersection method (B) Radiation method  
 (C) Resection method (D) 3 points problem ✓
43. The minimum no. of ranging rods required for direct ranging is:  
 (A) 2 nos (B) 3 nos ✓ (C) 4 nos (D) 5 nos
44. The following sights are taken on a "turning points":  
 (A) Foresight only (B) Backsight only  
 (C) Foresight and Backsight ✓ (D) Foresight and intermediatesight
45. In a closed traverse the algebraic sum of deflection angle is:  
 (A)  $0^\circ$  (B)  $360^\circ$  ✓ (C)  $(2n-4)*90^\circ$  (D)  $(2n+4)*90^\circ$
46. Closed traverse is suitable in the survey of:  
 (A) River (B) Road ✓ (C) Coast lines (D) Ponds ✓
47. Slate is formed by metamorphic action on:  
 (A) Limestone (B) Shale ✓ (C) Sandstone (D) Granite
48. Which of the following is not a constituent of paint?  
 (A) Drier (B) Brush ✓ (C) Vehicle ✓ (D) Base
49. Moisture absorption of good stone should be less than:  
 (A) 1% (B) 5% ✓ (C) 10% (D) 15%
50. Bitumen paints offer:  
 (A) Pleasing surface (B) Hard surface (C) Smooth surface (D) Protective surface ✓

उत्तरपुस्तिकामा प्रश्नपत्रको KEY अनिवार्य रूपले उल्लेख गर्नु पर्नेछ। KEY उल्लेख नगरेमा उत्तरपुस्तिका रद्द हुनेछ।

•समाप्त•