



सन्धि एकेडेमी

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इन्जिनियरिङ सेवा, सिभिल समुह, पाँचौ तह, सब इन्जिनियर पदको लिखित परीक्षाको नमुना परिक्षा

मिति: २०८२।०४।०३

Key-A

समय: २५ मिनेट

विषय: खानेपानी तथा सरसफाई।

पूर्णांक: ५०

वस्तुगत बहुउत्तर (२५x२ अंक)

उत्तरपुस्तिकामा प्रश्नपत्रको Key अनिवार्य रूपले उल्लेख गर्नु पर्ने छ। उल्लेख नगरेमा उत्तरपुस्तिका 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।

- Explaining potable water means it is:**
 - Free from minerals
 - Safe to drink
 - Completely pure
 - Salty
- Surface water is obtained from**
 - Spring
 - Well
 - Rain
 - All of the above
- The Aquifer having least water bearing capacity is**
 - Confined
 - unconfined
 - perched
 - none
- Shrouding is the process of filling gravel, Bajri etc. in**
 - Slotted tube well
 - Strainer tube well
 - Perforated tube well
 - Cavity tube well
- Coefficient of permeability is maximum for**
 - Clean gravel
 - Clay
 - Fine sand
 - Silt
- Which one water borne disease?**
 - Malaria
 - Cancer
 - Dysentery
 - Encephalitis
- Per capita water demand is calculated in liters**
 - per person per day
 - Per person per month
 - per person per year
 - all of the above
- Decrease per capita consumption occurs by:**
 - use of metering system
 - hot climate
 - good quality water in supplied
 - All the above
- A communicable disease is**
 - Cancer
 - Fluorosis
 - Tuberculosis
 - Goitre
- For the design of water tank in a remote area of Nepal, how much you domestic demand you consider.**
 - 45 lpcd
 - 65 lpcd
 - 120 lpcd
 - 125 lpcd
- The pressure at inlet and outlet in bpt is**
 - Zero and 1m
 - 1m and zero
 - Zero and zero
 - 1m and 1m

12. Normally the shape of demand line is
a) Straight b) Curved c) both a and b d) None
13. A G.I. Pipe has a coating of
a) Zinc b) Lead c) Silver d) Aluminium
14. The layout of distribution system which is suitable for haphazardly growing cities is
a) dead end system b) grid iron system
c) ring system d) radial system
15. At the socket and spigot joint,
a) enlarged end of the pipe is called socket
b) normal end is called spigot
c) spigot is fitted into the socket
d) all of the above
16. The sewage consists of water
a) 80% b) 90% c) 95% d) 99.9%
17. Sewerage system is designed for
a) Maximum flow only b) minimum flow only
c) average flow only d) maximum and minimum flow
18. Sewer preferred for combined system of sewage is
a) rectangular sewer b) circular sewer
c) egg shaped sewer d) all of the above
19. As the diameter of sewer increase, the self-cleansing velocity
a) increase b) decrease
c) remains d) depends on others factors
20. No-scouring velocity in concrete sewer is caused by
a) 2.5 to 3 m/s b) 2.5 to 3.5 m/s
c) 1.5 to 2.5 m/s d) 0.6 to 1.2 m/s
21. The design discharge for the combined system shall be taken equal to
a) dry weather flow
b) Rainfall
c) rainfall + dry weather flow
d) 2 x dry weather flow
22. The gradient of sewer is
a) given in the direction of natural slope of ground
b) given in the opposite direction of natural slope ground
c) zero
d) more than 1 to 20
23. An egg-shaped section of sewer
a) is economical than circular section
b) is more stable than circular section
c) provides self-cleaning velocity at low discharge
d) all of the above
24. Sanitary sewage means
a) domestic sewage b) industrial sewage
c) both a and b d) none
25. The minimum diameter of sewer for domestic use is usually:
a) 50mm b) 70mm c) 100mm d) 130mm

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