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18/A/C/S-4/4/E

PAPER - I
DRAUGHTSMAN (CIVIL)
(THEORY)
SEMESTER - IV

TIME: 3 HRS.

MARKS: 150

Note: Attempt all the questions.

All questions carry equal marks.

This paper carries negative marking. 25% marks will be deducted for each wrong answer.

Choose the correct answer.

1. For irrigation purposes, the p-H value of water should be -
a) Between 3 and 6
b) Between 6 and 8.5
c) Between 8.5 and 11
d) More than
2. When an oven-dried sample of soil is kept open in the atmosphere, it absorbs some amount of water. This water is known as -
a) Capillary water
b) Gravitational water
c) Hygroscopic water
d) All of these
3. A useful soil moisture for plant growth -
a) Capillary water
b) Gravitational water
c) Hygroscopic water
d) All of these
4. The ratio between the area of a crop irrigated and the quantity of water required during its entire period of the growth, is known as -
a) Delta
b) Duty
c) Base period
d) Crop period
5. The duty is largest -
a) At the head of the main canal
b) At the head of the water course
c) On the field
d) At all place
6. The first watering before sowing the crop, is known as -
a) Kor watering
b) Paleo
c) Delta
d) None of these
7. The average delta of rice crop is nearly -
a) 100
b) 200
c) 432
d) 864

Contd...2/-

8. The amount of precipitation is measured by –
 a) Rain gauge
 b) Osmoscope
 c) Turbidimeter
 d) All of these
9. When the drain is over the canal, the structure provided is known as –
 a) Aqueduct
 b) Super – passage
 c) Canal syphon
 d) Syphon aqueduct
10. _____ is the covered area of the usable rooms at any floor level.
 a) Carpet area
 b) Circulation area
 c) Non usable area
 d) Floor area
11. The quantity of voluminous and thick works are taken in _____.
 a) M
 b) M^2
 c) M^3
 d) M^4
12. The surveying used to determine additional details such as boundaries of fields, is called –
 a) City surveying
 b) Location surveying
 c) Cadastral surveying
 d) Topographical surveying
13. The method of measuring distance by pacing is chiefly used in _____.
 a) Reconnaissance surveys
 b) Preliminary survey
 c) Location survey
 d) All of these
14. The error measured length due to sag of chain or tape is known as _____.
 a) Positive error
 b) Negative error
 c) Compensating error
 d) Instrumental error
15. In a well conditional triangle, no angle should be less than _____.
 a) 30°
 b) 40°
 c) 50°
 d) 60°
16. The optical square is used to measure angles by _____.
 a) Refraction
 b) Reflection
 c) Double refraction
 d) Double reflection
17. The bearing of a line in the direction of the progress of survey is called –
 a) Back bearing
 b) Fore bearing
 c) True bearing
 d) Meridian
18. At the equator, the amount of dip is _____.
 a) 0°
 b) 45°
 c) 60°
 d) 90°

- Contd...4/-**

29. The sensitivity of a bubble tube can be increased by –
a) Increasing the viscosity of liquid
b) Increasing the diameter of the tube
c) Decreasing the length of bubble
d) Decreasing the radius of curvature of tube
30. Sensitiveness of a level tube is designated by –
a) Length of level tube
b) Radius of level tube
c) Length of bubble of level tube
d) None of these
31. The suitable contour interval for a map with scale 1:10000 is –
a) 2m
b) 4m
c) 6m
d) 8m
32. Direct method of contouring is –
a) A quick method
b) Adopted for large surveys only
c) Most accurate method
d) Suitable for hilly terrains
33. The number of horizontal cross wires in a stadia diaphragm is _____.
a) 4
b) 3
c) 2
d) 1
34. The operation of leveling to determine the elevations of points some distance apart or to establish bench marks is called –
a) Differential leveling
b) Check leveling
c) Profile leveling
d) Cross sectioning
35. Which of the following method is most commonly used in route surveys?
a) Contour
b) Contour lines
c) By cross section
d) By squares
36. Which of the following is not used in measuring perpendicular offsets?
a) Steel tape
b) Optical square
c) Cross staff
d) Line ranger
37. How many GPS satellite are currently in orbit around the earth?
a) 12
b) 24
c) 36
d) 48
38. Which of the following is not a type of map projection?
a) Cylindrical
b) Azimuthal
c) Conic
d) Geographic

39. One of the best examples of active sensing system is _____.
a) Visible electromagnetic spectrum b) Infrared electromagnetic spectrum
c) Solar radiation operator d) Synthetic aperture radar
40. The use of computers to create and depict digital representation of the earth's surface is known as -
a) Geographic information system b) Remote sensing
c) Geodesy d) Mapping
41. A total station measures _____.
a) Slope distance and Horizontal distance b) Co-ordinates and Horizontal distance
c) Vertical, Horizontal angles and slope distance d) Co-ordinates alone
42. The most widely used antenna in GPS is _____.
a) Horn antenna b) Slotted antenna
c) Paraboloid antenna d) Microstrip antenna
43. Natural error in leveling is caused due to _____.
a) Wind vibration b) Atmospheric refraction
c) Temperature variation d) All of these
44. Obstacle to ranging but not chaining is _____.
a) Hill b) River
c) Pond d) Building
45. What is the maximum number of lighting points that can be connected in a circuit?
a) 5 b) 10
c) 15 d) 20
46. What is the maximum load that can be connected in a circuit connecting only lighting points?
a) 200 watts b) 400 watts
c) 600 watts d) 800 watts

47. Brick walls are measured in –

- a) Square meter
- b) Meter
- c) Centimeter
- d) Per meter

48. The volume is measured correct to the nearest _____.

- a) 0.01 cum
- b) 0.02 cum
- c) 0.03 cum
- d) 0.04 cum

49. The damp proof course is measured in –

- a) Square meter
- b) Cubic meter
- c) Meters
- d) None of these

50. The rate of an item of work depends on _____.

- a) a specification of work
- b) Specification of materials
- c) Proportion of mortar
- d) All of these
