

d. Sand and gravel are the important aquifers for public water supplies. ○ a. b. О c. O d. No, the answer is incorrect. Score: 0 Accepted Answers:

7) 1 point The major problems plaguing groundwater management in India are: A. Over-abstraction B. Depleted aquifers C. Pollution in the form of industrial pollutants, human wastes, and agricultural chemicals. Choose the correct answer. a. A, B b. B, C c. A, C d. A, B, C a. b. Ос. O d. No, the answer is incorrect. Score: 0 Accepted Answers: 8) 1 point The major chemicals found in groundwater include: a. calcium, magnesium, chloride, sulphate b. iron, magnesium, sulphate, lead c. lead, calcium, fluoride, arsenic d. arsenic, chloride, fluoride, nitrate a. b. O c. d. No, the answer is incorrect. Score: 0 Accepted Answers: 9) 1 point are constructed to intercept groundwater flow by digging trench or a tunnel with holes on sides at right angles to the direction of flow of underground water. a. Infiltration galleries b. Infiltration well c. Percolation well d. Tube well a. ○ b. ○ c. O d. No, the answer is incorrect. Score: 0 Accepted Answers: 10) 1 point The flow of groundwater depends on: a. hydraulic gradient b. characteristics of aquifer c. hydraulic gradient and characteristics of aquifer

d. none of these a. b. O c. O d. No, the answer is incorrect. Accepted Answers: c. 11) 1 point states that the rate of flow (laminar flow) is directly proportional to the hydraulic gradient and the area of cross-section of the soil. a. Darcy's law b. Bernoulli's principle c. Archimedes' principle d. Newton's law of motion a. b. O c. O d. No, the answer is incorrect. Score: 0 Accepted Answers: Consider the following diagram and the observations made on a 30 cm diameter tube well: Rate of pumping = 1500 litre/minute Draw down in test well 30 m away = 1.5 m Draw down in another test well 60 m away = 0.6 m Depth of water in the well before pumping = 40m 15 cm 30 m 60 m Ground Level Water Table 0.6 m Cone of depression 1.5 m 40 m Impervious layer Main Well Test well 2 Test well 1 Answer question 12, 13 and 14 based on the above given data. 2 points The radius of the circle of influence, R (in meters) is a. 100 b. 110 c. 96 d. 130 a. b. О c. O d. No, the answer is incorrect. Score: 0 Accepted Answers: 13) 1.5 points The transmission constant of the aquifer, K_m is: a. 7 b. 8.5 c. 6.4 d. 5

a. b. О c. O d. No, the answer is incorrect. Score: 0 Accepted Answers: 14) 1.5 points Maximum rate of discharge of the well, Q_{max} (correct to 2 decimal places) is a. 5.26 m³/min b. 6.84 m³/min c. 3.65 m³/min d. 4.86 m³/min a. b. O c. O d. No, the answer is incorrect. Accepted Answers: 15) are structures which essentially consist of strainer through which the raw water from river, canal or reservoir enters and is connected to a sump well by means of conduits. a. Intakes b. Infiltration well c. Infiltration gallery d. Dug well a. b.

1 point О c. O d. No, the answer is incorrect. Score: 0 Accepted Answers: 1 point Among the following statements, the incorrect statement is: a. Intake should be located at a site where sufficient quantity of water is available b. Intakes should have sufficient self-weight to prevent up thrust of water/ current. c. Intakes should be constructed close to navigation channels d. Intakes should be constructed as far as possible from sewage disposal. a. O d. No, the answer is incorrect. Accepted Answers: 1 point Which among the following is not a primary source of water? a. River b. Glacier melts c. Canals d. Rainwater a. b. О c. O d. No, the answer is incorrect. Score: 0 Accepted Answers: