درای / ماحیش

University of Baghdad College of Science Dept. of Geology Admission Exam for MSc. 2015-2016

Answer all the questions

- Q1- Placing geologic events in sequential order as determined by their position in geologic record is called?

 a- uniformitarianism . b-correlation. C- Correlative dating . (d-absolute dating.
- Q2- In which type of unconformity are the beds parallel to each other?

 a-angular unconformity . b-hitaus. C- disconformity. d-none conformity.
- Q3- Which of the following methods can be used to demonstrate age equivalency of rock units?

 a-lateral tracing. b-radiometric dating. C-guide fossils. d-position in sequence. f-all of these.
- Q4- How can classify the foraminifera according to chemical composition?
- Q5- The unit of electrical resistivity is : a- ohm b- ohm-m c- ohm-m² d- ohm - m⁻¹
- Q6- The Gutenberg discontinuity is located at a depth of around?

 a- 35 km b- 150 km c- 2900 km d- 5000 km
- Q7- List types of tectonics boundaries and their relation to epicentral locations?
- Q8- What are the main principals of gravity and magnetic methods?
- Q9- The mineral quartz belongs to:
 - a- Oxides b- Silicates c- Hydroxides
- Q10- Bedding planes are defined according to the change:
 - a- In composition b- In grain size c- In both above
- Q11- Relate the crystallization of minerals from magma to Bowen's reaction series
- Q12- Differentiate between the followings:
 - a Sand and sandstone b- Magma and lava c- Limestone and marble d- Shale and claystone

Admission Exam for MSc. 2015-2016 University of Baghdad College of Science Dept. of Geology Q13- The upper layer in the crust is rich in: d- Silicon and c- Iron and magnesium b- Silicon and iron a- Silicon and aluminum magnesium Q14- The most unstable mineral towards weathering is: d-Olivine c- Hornblende b- Feldspar a- Quartz Q15- The Gutenberg discontinuity defines the boundary between: d- Continental and oceanic c- Crust and mantle b- Mantle and core a- Inner core and outer core crusts Q16- How the geochemical survey is used for the exploration of mineral deposits? Q17- Explain loose on ignition (LOI) and insoluble residue (IR) in the carbonate rocks? Q18- What are the types of structural traps for oil? Q19- Regional seal of Iraq is? d- sulaiy c- Gotnia b- Ratawi a- Hartha Q20- Secondary migration is following on: d-oil b- water c- rocks a-Gas Q21-Hydrocarbon generation is in strata of: c- fractured limestone d- anhydrites a-non permeable shale b- sandstone O22- A groundwater recharge area is what? c- an underground lake or stream b- water held in the soil a-The area where water enters an aquifer d - the place that precipitation soaks into the ground Q23- All the land that contributes water to a particular stream or river is the : d- Rain shadow e- Watershed c- Water table a-Aquifer b- Runoff zone Q24- There are three main "loops" in the hydrologic cycle. These are: a-fresh water, salt water, and groundwater b- the surface runoff loop, the evapotranspiration loop, and the groundwater loop. c-air, land, and soil

University of Baghdad College of Science Dept. of Geology d-lakes, oceans, and rivers Admission Exam for MSc. 2015-2016

Q25- A mixture of fresh and salt water typically found where rivers meet the ocean is called what?

a-land-seawater b- saline water c- compound water d- brackish water e- mixture water

O26- Thrust fault is

a-tensile fracture. b-shear fracture. c-extension fracture. d-thermal fracture.

Q27- Subduction occurs along what type of plate boundary

a-divergent. b-transform. c-convergent. d-answer a and c.

Q28- The red sea is a good example of what type of plate boundary:

a-convergent oceanic- continental. b-oceanic divergent. c-continental divergent. d-transform boundary.

Q29- Discuss how you could construct a structural cross section from a geologic map.

Q 30- Fat clay is:

a-The clay which have low liquid limit

b- The clay which have low liquid limit with high Shrinkage limit

c- The clay which have high Shrinkage limit

d- No one of that mentioned above

Q 31- which one of the following is not from slope movement

a-Falls b- Toppling c- Slides d- No one of that mentioned above

Q 32-the application of mechanical energy to the soil to rearrange the particles and exclude the air and water to reduce the volume of soil is called:

a-Stabilization of soil b- Consolidation of soil c- Compaction of soil d- Compressibility of soil

Q33-Draw block diagrams or section and explain the influence of anticline and syncline on tunnels.