

Roll No.....

Total No. of Section : 03

Total No. of Printed Pages : 03

Code No. : 03/206(A)

Third Semester Examination, Dec. 2017

M.Sc. GEOLOGY

Paper - II

ECONOMIC GEOLOGY

Time : 3 Hrs.

Max.Marks : 80

Note : Section 'A' consists of 10 very short answer type questions, all of which are compulsory and should be attempted first. Section 'B' consists of four short answer type questions with internal options. Section 'C' consists of four long answer type questions with internal choice.

Section - 'A'

Answer the following very short-answer-type questions in one or two sentences : (2x10=20)

- Q.1 Arsenic content acts as a pathfinder in which deposit?
- Q.2 What is a Saddle reef?
- Q.3 Which type of deposit is formed by immiscible liquid segregation?
- Q.4 What is contact metasomatic deposit?
- Q.5 What is meant by beach placer deposit?
- Q.6 What is a gossan?
- Q.7 What is isopatch?
- Q.8 How do you distinguish Gondwana coal and Tertiary coal?
- Q.9 In Digboi oil field, the oil is confined to which formation?
- Q.10 Where is the working uranium mine in India and uranium ore occurs in which rock?

P.T.O.

(2) Code No. : 03/206(A)

Section - 'B'

Answer the following short-answer-type questions with word limit 200-250 : (5x4=20)

Q.1 Explain the origin of ore bearing fluids.

OR

Write the applications of fluid inclusion study.

Q.2 Write note on Bauxite deposits of Chhattisgarh.

OR

What are Skarn deposits? Give their classification.

Q.3 Explain the various types of coal.

OR

Write a note on Maceral study of coal.

Q.4 Write a note on Bombay High oil field.

OR

Give a brief account on Nuclear power stations of India.

Section - 'C'

Answer the following long-answer-type questions with word limit 400-450 : (10x4=40)

Q.1 What are ore deposits? Describe their relationship with plate tectonics.

OR

Describe with example wall rock alteration.

(3) Code No. : 03/206(A)

Q.2 Describe mode of occurrence and Indian distribution of chromite deposits.

OR

Describe Iron ore deposits of India.

Q.3 Explain Indian classifications of coal.

OR

Describe geology of Raniganj coal field.

Q.4 Describe with diagram and examples different types of oil traps.

OR

Describe mode of occurrence and Indian distribution of important atomic mineral deposits.

---X---