#### AR - 540

### Third Semester B. Sc. (Part - II) Examination

3.S : GEOLOGY

P. F	Pages :	6
Tim	e : Th	ee Hours] [Max. Marks: 80
	Note	<ul> <li>(1) All questions are compulsory.</li> <li>(2) Draw neat well labelled diagram wherever necessary.</li> </ul>
1.	(A)	Fill in the blanks:—
,		(i) In phase diagram the melting point curve is known as
		(b) Cavity filling and replacement are the type of deposits.
		(c) In regular Echinoides the mouth and anus is located at
		(d) The deposits which are formed simultaneously along with country rock are called as 2
	(B)	Choose the correct alternatives.
		(a) Waste material associated with the ore mineral is called as -

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- (i) Guange minerals
- (ii) Gems
- (iii) Rock forming minerals
- (iv) None of the above
- (b) The largest septa in corallite is known as -
  - (i) Primary septa
  - (ii) Secondary septa
  - (iii) Tertiory septa
  - (iv) None of the abvoe
- (c) Gabbro-Anorthosite-Periodotite association falls in -
  - (i) Acidic rock
  - (ii) Alkaline rock
  - (iii) Basic and ultrabasic rock
  - (iv) None of the above
- (d) Placer deposits are formed as a result of -
  - (i) Residual liquid segregation type
  - (ii) Residual concentration

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		(iii) Mechanical concentration	
		(iv) All of above	2
	(C)	Answer the following in one sentence	:-
		(a) What are Gossan?	
		(b) What is Pygidium?	
		(c) What are mixed crystal?	
		(d) What are Telethermal deposits.	4
2.	Expl	ain the following.	
	(a)	Metalic and non-metalic deposit.	4
	(b)	Metalogenic epoch and provience.	4
	(c)	Late magmatic deposits.	4
		OR	
	(p)	Tenor of ore	4
	(q)	Early magmatic deposit.	4
	(r)	Guange minerals.	4
3.		t are placer deposits? Describe the mechan entration process.	nical 12
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### OR

Describe the oxidation and supergene sulphide enrichment process of ore deposits.

4.	Explain the following :		
	(a)	Phase-component system.	2
	(b)	Two component system.	4
	(c)	Eutectic temperature.	4
		OR	
	(p)	One-component system.	4
	(q)	Mixed crystal.	4
	(r)	Phase Rule.	4
5.	Describe the following:-		
	(a)	Variation diagram.	2
	(b)	Kindreds.	4
	(c)	Petrographic province and period.	2

# OR

	(q)	Granite-Granodiorite-Diorite.	4
	(q)	Consanguinity.	4
	(r)	Distribution of rock in space and time.	4
6.	Exp	lain the following:-	
	(a)	Morphological characters of Echinoidea.	4
	(b)	Geological history of foraminifera.	4
	(c)	Basic idea about micropalaeontology.	4
		OR	
	(p)	Morphology of foraminifera.	4
	(q)	Geological history of Echinoidea.	4
	(r)	Basic idea about Microfossils.	4
7.	Envi	cribe the Morphological character ronment, classification and geological histo nthozoa.	

#### OR

Describe the Morphological characters classification, environment and geological history of Trilobita.

