22381

2222 3 H		70	Marks	Seat	No.						
Instructions – (1)		All Questions are Compulsory.									
		(2)	Answer each	next main	Questic	on or	ı a	ne	W	pag	e.
		(3)	Illustrate your necessary.	answers	with nea	at sko	etc	hes	wł	nere	ver
			Figures to the right indicate full marks.								
			Assume suitable data, if necessary.								
		(6)	Use of Non-p Calculator is	•		troni	c F	Pocl	ket		
		(7)	Mobile Phone Communicatio Examination I	n devices	-						
]	Marks		
1.	Attempt	t any	<u>FIVE</u> of the	following	:						10
a)	Define expendable and non-expendable minerals.										
b	Define run of mine grade.										
c)) Define annuity.										
ď	d) Define crushing and grinding.										
e)) List four	r ores	s of Copper.								
f)	State Ho	oskolo	l's formula.								

g) State meaning of sampling.

22381

Marks

2. Attempt any THREE of the following: Explain the highlights of the national mineral policy 2019. a) b) State in short conservation of minerals with examples. c) Justify the importance of iron and steel industry in India. d) What is the role of mineral industry in national economy? 3. Attempt any THREE of the following: 12 a) Compare computed grade with effective grade of ore. b) Distinguish resource and reserve categorisation and their types. Define salting with various salting method and state precaution c) to safe guard against salting. Define annuity. Describe in short types of annuity. d) Attempt any THREE of the following: 4. 12 a) What is Sampling? Write any four sampling methods. b) Explain diminishing annuity method for redemption of capital. A machine costing Rs. 20,000/- was purchased and was c) installed the installation charges are Rs. 5,000/-. If the scrap value is Rs. 5,000/- and the use full life is 10 years. Calculate the yearly depreciation by straight line method. d) Describe gravity separation methods for ore mineral to gangue minerals. Explain the properties of minerals which are used for selection e) of methods of ore dressing, also state the importance of ore dressing.

5. Attempt any TWO of the following:

- a) How will you prepare the sample for assay value.
- b) How will you carry out the sampling procedure for particular ore deposit.
- c) Explain the included area method in computation of mineral reserve.

12

22381

6. Attempt any TWO of the following:

- a) How will you estimate the weighted average grade of stop block and explain why minimum stopping width is essential.
- b) Define depreciation and describe any three methods of calculation of depreciation.
- c) Explain the black and dodge types of crushers with neat sketches, compare both crushers based on types of jaws, type of blades, angle of nip and prime moving machinery.

12