Q.P. 52896



Time: Q1.	A) 1 2	Select correct answer a) iron a) Tesla c)JNZ, 4700h	Marks:-100	(12)
	4 5 6	b) ANA Ad) Ultraviolet Wavesa) Modulation of analog carrier by an analog signal		
	B) 1 2 3	Answer in one sentence Palaeomagnetism is the branch of geophysics concerned with t magnetism in rocks that was induced by the earth's magnetic fie time of their formation Definition (1Mark) Opcode: MVI operand: B, 45h number of bytes: 2 Gray, rad		(03)
	C) 1 2 3 4 5	Fill in the Blanks Global warming Hawaiian Lower order Arithmetic Demodulation		(5)
Q2.	A) 1	Attempt any one cause of earthquakes3marks		(8)
		Explanation of measuring earthquakes3 marks		
		Ways to predict earthquakes2 marks		
	2	Definition—————————————————————————————————	nark) breaking of that travels	
		Body Waves P waves and S Waves Surface Waves 1] Love Waves 2] Rayleigh Waves		
	B)	Attempt any one Explanation of three main parts of internal structure Neat diagram and its explanation	(4Mark) (4Mark)	(8)
	2	Definition(1mark) Explanation in detail(7mark)		



	C 1 2	Attempt any one Explanation and diagram Any four points(4mark)(1 mark each)	(4)	
Q3.	A 1	Attempt any one Any four modes: i) Register Mov C,B ii) Direct IN, input port address iii)Immediate: MVI,8 bit iv) Implied or implicit: RAR,CMA v)Indirect: MOV M,A The bit position of the flip flop in flag register is:		
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
		S Z AC P CY Description about each flag with example : 1.Sign(S) 1.Sign(S) 1.Sign(S) 2.Zero(z) 2.Zero(z) 2.Zero(z) 3.Auxiliary carry(AC) 1.Sign(S) 1.Sign(S) 1.Sign(S) 1.Sign(S) 2.Zero(Z) 1.Sign(S) 1.Sign(S) <td< td=""><td></td></td<>		
	B) 1	Attempt any one Initialisation2 Data acquisition & processing2 Decision making2 Result storage2	(8)	
	2	1 mark each i) LXI H ,2600h ii) MOV A , M iii) INX H iv) CMA v) ADI ,01h vi) MOV M,A vii) CMP B viii) NOP		
	C) I	Attempt any one DCX D: Memory location will be 3455h No flag will be affected DCR D: data will be decremented from 74h to 73h. All flags except CY will be affected	(4)	
	2	i) A: 28 1M ii) E: A5 1M iii) 28 OR A5 = A: AD h 2M		
Q4	A) 1	Attempt any one X-ray Production Properties	(8) 1M 4M 3M	

marks



