Ha	Il Ti	cket Number: Code No.:	228				
		VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD MCA II Year II - Semester (Main) Examinations, June - 2016					
		Finishing School-II					
Ti	me:	1½ hours Max. Mark	s: 35				
		Note: Answer ALL questions in Part-A and any FIVE questions from Part-B					
1	a)	Part-A (5 X 2=10 Marks) What number should replace the question mark?	F13				
1.	a)	what number should replace the question mark?	[1]				
		9 8 5					
	b)	(1) 17 (2) 10 (3) 20 (4) 14 17, 22, 27, 32, ?	[1]				
^		(1) 33 (2) 35 (3) 38 (4) 37					
2.	a)	If $x:y = 1:3$, then find the value of $(7x+3y):(2x+y)$ (1) 14:5 (2) 15:5 (3) 16:5 (4) 17:5	[1]				
	b)	Salaries of Ravi and Summit are in the ratio 2:3. If the salary of each is increased by Rs 4000, the new ratio becomes 40:57. What is Summit present salary? (1) 32000 (2) 34000 (3) 38000 (4) 40000					
3.	a)	In how many ways can 10 students can be arranged in a row? (1) 9! (2) 6! (3) 8! (4) 10!	[1]				
	b)	There are 12 yes or no questions. How many ways can these be answered? (1) 4096 (2) 2048 (3) 1024 (4) 144	[1]				
4.	a)	The price of sugar increases from 60 rs to 80 rs per kg. What is the percentage increase in the price?	[1]				
	b)	(1) 20 % (2) 33.33% (3) 60% (4) none Marked Price of a Pen is 100 Rs. Successive discount of 15% and 20 % is given on the marked price of the pen. What is the new price of the pen after the discounts (1) 68 Rs (2) 65 Rs (3) 75Rs (4) 95 Rs	[1]				
5.	a)	At what time between 4 and 5 O' clock, the hands of a clock coincide? (1) 21 9/11minutes past 4 (2) 291/11minutes past 4 (3) Both (1) & (2) (4) None	[1]				
	b)	Today is Wednesday, what will be the day after 100 days from today? (1) Monday (2) Sunday (3) Saturday (4) Friday	[1]				
		Part-B (5 X 5=25 Marks)					
6.	a)	i) 15, 45, 135, 405, (1) 550 (2) 650 (3) 945 (4) 1215	[1]				
		ii) Which number replaces the question mark?	[1]				

ii) Which number replaces the question mark?

(2) 3

(1) 8

[1]

(3) 1 (4) 6

	b)	i)	100 + 50 * 2 = ?	[1]			
			(1) 200 (2) 150 (3) 100 (4) 300				
		ii)	Half of two third of a number is 90 then what is the number (1) 250 (2) 270 (3) 180 (4) 360	[1]			
		iii)	Joseph	Γ1 7			
)	(1) 93 (2) 98 (3) 88 (4) 83	[1]			
7.	a)	i)	days. If both of them work together, then the number of days required to complete the work is	[1]			
			(1) 15 days (2) 10 days (3) 9 days (4) 8 days				
		ii)	If 5 girls can embroider a dress in 9 days, then the number of days taken by 3 girls will be	[1]			
			(1) 20 days (2) 10 days (3) 14 days (4) 15 days				
	b)	i)	A man has to bicycle 30 miles. He will travel at 6 mph. How long will it take? (1) 3 hours (2) 5 hours (3) 2 hours (4) 7 hours	[1]			
		ii)	1 (* 11 10 1)	[1]			
			rest of the half distance with a speed of 60 km/hr. The average speed of the car is: (1) 48 km/hr (2) 37 km/hr (3) 44 km/hr (4) 45 km/hr	r."			
		iii)	Two taps A and B can fill a tank in 10 hours and 15 hours respectively. If both the taps are opened simultaneously, in how much time the tank will be filled? (1) 6 hours (2) 2 hours (3) 7 hours (4) 3 hours	[1]			
8.	a)	i) A jar contains 3 red marbles, 7 green marbles and 10 white marbles. If a marble is drawn from the jar at random, what is the probability that this marble is white? (1) 1/2 (2) 3/2 (3) 5/2 (4) 7/2					
	ii) One card is drawn at random from a pack of 52 cards. What is the probability that the card drawn is a face card (Jack, Queen and King only)? (1) 1/13 (2) 3/13 (3) 1/4 (4) 9/52						
	b)	i)	VIII 1 1 01007 0	[1]			
			(1) 9801 (2) 12000 (3) 5600 (4) 9900	[1]			
		ii)	To be an income and the state of the state o	[1]			

9. The following table gives the percentage of marks obtained by seven students in six different subjects in an examination.

The Numbers in the Brackets give the Maximum Marks in Each Subject.

Student	Subject (Max. Marks)								
	Maths	Chemistry	Physics	Geography	History	Computer Science (40) 80			
	(150)	(130)	(120)	(100)	(60)				
Ayush	90	50	90	60	70				
Aman	100	80	80	40	80				
Sajal	90	60	70	70	90	70			
Rohit	80	65	80	80	60	60			
Muskan	80	65	85	95	50	90			
Tanvi	70	75	65	85	40	60			
Tarun	65	35	50	77	80	80			

a) i)	What are the (Rounded of	he average marks ff to two digit after	obtained by aldecimal)	Il the seven students in Physics?	[1]		
	(1) 77.26	(2) 89.14	(3) 91.37	(4) 96.11			
ii)	ii) The number of students who obtained 60% and above marks in all subjects is?						
	(1) 1	(2) 2	(3) 3	(4) None			

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	b) i) What was the aggregate of marks obtained by Sajal in all the six subjects? (1) 409 (2) 419 (3) 429 (4) 449								[1]	
	ii) In which subject is the overall percentage the best? (1) Maths (2) Chemistry (3) Physics (4) History								(4) History	[1]
		iii)	What is the over (1) 52.5%	erall percent (2) 55.4			6	(4) 63.	9%	[1]
10.	a)	i)	120, 99, 80,63, (1) 36	, 48,		(3) 26		(4) 39		[1]
		ii)	125, 80, 45, 20 (1) 6),(2) 8		(3) 5				[1]
	b)	Directions: All the faces of a cube are painted in green colour. The cube is cut into 125 small cubes							[3]	
			How many cult (1) 0	(2) 8		(3) 4		(4) 27		
			How many cul (1) 0	(2) 8		(3) 4		(4) 27		
		111)	How many cul (1)24	(2) 54	ly one f	-		(4) no	ne of these	
11.	a)	i)	If 15% of 30% (1) 333			the num (3) 333(1)		(4) 33	4	[2]
		ii)	(3080 + 6160) (1) 380	(2) 350		(3) 330		(4) 31	0	[1]
	b) Two pipes can fill a tank in 10 hours and 12 hours respectively. while third pipe emp the full tank in 20 hours. If all the three pipes operate simultaneously, in how must time the tank will be filled? (1) 5 hours 45 minutes (2) 8 hours 35 minutes (3) 7 hours 30 minutes (4) 6 hours 55 minutes								multaneously, in how much	[2]
12.	2. Answer any two of the following:									[5]
	a) In how many different ways can the letters of the word 'RUMOUR' be arranged? (1) 180 (2) 128 (3) 360 (4) None of these									
	b)	b) If the price of the 12 tables is equal to the selling price of 16 tables, then the percent of loss is? (1) 15% (2) 25% (3) 10% (4) 30%								
	c)	63	, 66, 71, 78, 87		(3) 93		(4) 95			
