SHIKSHA CLASSES

Question Paper

Subject : Maths - I		hahili <i>t</i>	- N 7	Total Marks :20 Time : 1 Hour	
			.y	Time . I Hour	
		<u>SECTION - A</u>		:	Solve the following : (ANY 2) 4
Q.1	:	Choose the correct option : 4	Q.3	:	A bag contains 7 black and 4 red balls. If 3
	i)	A fair is tossed twice. What are the odds in			balls are drawn at random, find the
	,	favour of getting 4, 5 or 6 on the first toss			probability that:
		and 1, 2, 3 or 4 on the second die?			i) all are black ii) one is black and
		a) 1 : 3 b) 3 : 1			two are red.
		c) 1 : 2 d) 2 : 1	Q.4	:	Two fair dice are thrown. Find the probability
	.:.)	There are 2 shelves One shelfhas 5 Physics			that the number on the upper face of the
	ш)	and 2 Dialogy hooks and the other has 4			first die is 3 or sum of the number on their
		and 5 Biology books and the other has 4			upper face is 6.
		Physics and 2 Biology books. The	Q.5	:	Three fair coins are tossed. What is the
		probability of drawing a Physics book is			probability of getting three heads given that
		9 31	2		at least two coins show heads.
		a) $\frac{14}{14}$ b) $\frac{1}{48}$		0	SECTION C
				:	Solve the following : (ANY 2) 6
		c) $\frac{9}{28}$ d) $\frac{1}{2}$	0.6	:	If E, and E, are equally likely, mutually
		38 2			exclusive and exhaustive events and
Q.2	: i)	Solve the following questions: 2 If $P(AnB) = \frac{1}{2}$, $P(BnC) = \frac{1}{2}$.			$P\left(\frac{A}{E_1}\right) = 0.2, P\left(\frac{A}{E_2}\right) = 0.3.$ Find
	-)	$P(CnA) = \frac{1}{2}$ then find $P(A)$ $P(B)$ and			$P\left(\frac{E_1}{A}\right).$
		6 ⁽¹⁾ , (1), (2) and	0.7	:	In a single toss of a fair die, what are the
		P(C).			odds against event that number 3 or 4 turns
	ii)	If $A \cup B \cup C = S$ (the sample space) and			up?
		A, B and C are mutually exclusive events,			-
		can the following represent probability	Q.8	:	If $P(A) = P\left(\frac{A}{B}\right) = \frac{1}{5}, P\left(\frac{B}{A}\right) = \frac{1}{3}$, then
(C	a) $P(A) = 0.2$, $P(B) = 0.7$, $P(C) = 0.1$			find:
		SECTION R			i) $P(A^{1}/B)$
		SECTION D			

ii) $P(B^1/A^1)$



