## (SECTION - B)

- Q. 6. (a) Find the area of a rectangular field whose length is 20 m and the length of its diagonal is (5) 25 m. 300 115
  - (b) A Crow travels 5 km due South, 3 km due West, 4 km due North and 2 km toward South- (5) East. How far is crow from its starting position?
  - (c) Three persons, Zain, Ali and Umar started a bussiness with Rs. 150,000, Rs. 190,000 and Rs. (5 U 120,000 respectivily. Zain manages the bussiness and receives allowance of Rs 160,000 for this management. After 5 months Ali withdraws Rs. 90,000 and bussiness is closed after 9 months. What did each receive in the profit of Rs. 580,000.
  - (d) Mst. Razia Begum died leaving behind her property of Rs. 802,500 which was to be distributed among her husband, her mother and two daughters. The husband got 1/4, mother got 1/6 and remaining for 2 daughters. Rs. 7500 was spent on her burial. Find the share of each one.

## GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)

Q. 7 (a)	In a certain country, 7% of the total workforce is employed in tourism. 24.4 million overseas visitors came to this country in 2014. 2014 was a record year for inbound tourism. This level of visitors was 3% higher than in 2013. It eclipsed the previous record of 24 million visitors recorded in 2008. In 2014 the average overseas visitor spent US\$ 110 but average daily spend per visitor in 2013 was US\$ 60 while in 2014, it was US\$ 76.20.	(5)
	What percentage increase in daily average amount spent occurred between 2013 and 2014?	
(b)	How many visitors came to this country in 2013?	(5)
(c)	What was the approximate percentage increase on the previous record number of visitors?	(5)
(d)	If there are 30 m people employed in this country's workforce, how many work in the tourism sector?	(5) (20)
Q. 8. (a) (b)	The sum of two numbers is 48. If the smaller number is one-fifth of the larger number, find the two numbers.  Find out the correct word from the jumbled spellings given below.  IUPNRT, AERPSTEL, LLARIYTTOUE, DCAAOOV, ANAISSSOITANS	(5) \$ (5)
(c)	A sphere of diameter 26 cm is half filled with honey. The honey is poured into a cylindrical beaker of diameter 16 cm. Find the depth of honey in the beaker.	(5)
(d)	The breadth, length, and height of a room is 14 feet, 20 feet and 10 feet respectively. There is also a door of room having height 8 feet and with 5 feet. Two windows of 4 feet by 5 feet are also there. The cost of paint and labour inside room is Rs. 100 per square foot. How much will it cost to paint the inner walls and roof of the room?	(5) (20)

Special CSS-2023  Cost Paper!	
26(a) Find the area of a rectangular fix length is som and length of its Diag	eld whose
length is som and length of its Diag	onal is
25m.	
Solution	
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length of rectangle = 20m Diagon at length = 25m	
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25m	
20m	
To know the area we must know bone	al
rectangle which could be find out	sy:
Pythagoras - deorem.	1
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$25^2 = (20)^2 + (3)^2$	12
$625 = 400 + n^2$	62
$625 - 400 = \chi^2$	2
$225 = \chi^2$	2
Taking hoot on ds	40
V225 = V2	25
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zom	115 22
tree of rectangle = bxh	75
Ken of rectangle = 20×15	25 019
	-10
men of redargle = 200m2).	20

1) A crow fravels 5 km due south, 3 km due well, 4 km due North and 2 km towards south East. How fae is crow from its starling position: W 5 Kmsown 923km c) Data: Total profit = 580,000 Zain's allowance for huriness managemen 160,000 Profit remaining = 420000 zain invertment; for 9 mouths = 150,000-x9 = 1350000 Ali investment for Smoths = 190000x5+ 100000 X4 = 1350000 umar investment for 9 months = 220,000 x 9 = 1080000 uman: Zain Ali (000000 1350000 1350000 20

12 Share of Ati Zain= 5 x 420,000 150,000 Rs Share of Ali = 5 x 420,000 = 1,50,000 Rs umass share = 4 x 420,000 = 120,000 Rs (d) Dalg= Total property- Rs 802500 Husband share ty Mother 16 Remaining 2 daughters. Money spent on = 700 Rs. her bueral tind shall of each. Circle find money affer burial 802500 - 7500 Money = Rs. 795000 Share of husband = 1 x 795000

I Share of husband = Rs. 198750 Share of mother = 1 x 795000 Share of mother = 2,132500 Remains for 2 dauguter Remaining = Total after funeial charges -Mothers share + husbands share Remaining = 795000 - (192750 + 132500) Remaining = 463750] Danguters Share 463750. Estare of each dauguter 231 275R Q7(a) Dala: 7% - work for ce employed in tousism visitors visited in 2014 = 24.4 million # visitors in 2008 = 3 / less of 24.4 million 2014 US Spend = US\$ 110 Aug daily spend in 2013 = 45\$60

(1) What percent age increase in daily average amount spent occured blue 2013 and 2014 So: percentage increase = New amount - old amount x 100 old amount Percentage increase = 76.20 - 60 y 100 Percentage increase = 5.460 x 100 Percentage increase = 5.4% (1) How many visitor came to-lhis country in 2013. As it is given that 3% less than 2014. violors in 2014 = 24.4 million visitors in 2013 = 3 x 24.4 + 24.4 Ned tors in 2013 = 0.732 + 24.4 - 24.4-0.732 = 23.609 million An : 23.689 million

(c) What was the approximate pacentage increase on the previous record number of visitors?  * Increase = 24.4 - 24 × 100  24		
	(c) What was the approximate percen	tage
	increase on the previous record	number
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d) If 30m people are employed in the country's wolk pace. How many work in the tourism sector:  Sol-  Wolkforce in tourism sector: 7%.  7 x 30 = 21 10 1217.  100 10 20  = 2:1 million people in tourism  Perpartment.  Q8  Ca)  Data:  Sum of two number = 48  Sume Larger = x  Smaller # z 1 x x 6x = 48  5 Sumz 48.		24/40
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REP TURNEP ZUPNIRT PLAS AERPSTEL YLTRAVIOLET LLARIVIIOUE AVACODO DCAAOOU ANAISSSOITANS ASS ASSINATION c. Data sphere Dia = 26 cm Sphere is half Filled Cylindrical Bealler Diameler = 16cm Sol :-Volume of sphere = 4 Tr<sup>2</sup> 2 = 26 = 13 Volume of sphere = 4 x 3.14 x (13) 3 = 1.333x 3.14x 2179 z 9198.735 Since sphere is half filled: 9198.735 Sphe volume = 4599.36 cm3 · volume of cylinder = Tr2h 4599,36 = 3.148x(8)2xh h= 4599.36 = 4598-36 3.14 × 64% 200.96 h= 20.88cm

Datar

breadth = 14 feet

fleight = 10 feet

length = 20 feet 1) Datan Door = Ofeel XSfeet 2 Windows = 4 feet by 5 feet Cost of paint 8 labour - 200 per 59 foot Cost & paint 8 labour - 200 per 59 foot lofeel-20 Leet Mea = 2 Sides of wall

Mea = 2 (lo x 20)

Moo - 2x 200 ft Area = 2x200ft Meg= 400 Sq) fl-Tile of other sides of wall meg = 2(14x10) Mee = 2 x 140 Aseq = 280 sqfl-For there of roof = 20x14 Total area of room= 280+280+400 = 960 Sqft Areg of door = 8x5 = 4059ft

Area of windows = 2x(4x5)

Area of windows = 2x 20

Area of windows 40 Total are - (Mer of door + window)
960 - 40 + 40 960 - 80 Total area to be coloured = 820 ft Ost of labour = Rs. 100 per square foot Cost of Caboue = 880 × 100 Cost of Cabour = 88000 Rs