

Synergy Study Point**Prelims 2017 GS - II****Comprehensive Test I - Answer Key**

Q. No.	Ans	Q. No.	Ans	Q. No.	Ans	Q. No.	Ans	Q. No.	Ans
1	c	19	c	37	a	55	b	73	b
2	c	20	b	38	b	56	b	74	a
3	a	21	b	39	d	57	c	75	b
4	b	22	d	40	b	58	a	76	b
5	c	23	a	41	b	59	c	77	c
6	c	24	c	42	c	60	c	78	c
7	a	25	c	43	c	61	d	79	c
8	d	26	b	44	d	62	b	80	c
9	d	27	b	45	d	63	c		
10	a	28	a	46	a	64	a		
11	c	29	b	47	a	65	c		
12	d	30	d	48	a	66	d		
13	c	31	c	49	a	67	a		
14	b	32	b	50	c	68	b		
15	d	33	b	51	d	69	d		
16	c	34	b	52	c	70	a		
17	b	35	a	53	b	71	c		
18	b	36	c	54	d	72	b		

Car	Mileage @ 50 kmph	Mileage @ 90 kmph	slope	60	70
Santro	23	18	-0.125	21.75	20.5
Figo	21	16	-0.125	19.75	18.5
Sunny	16	12	-0.1	15	14
Innova	20	14	-0.15	18.5	17
Swift Desire	18	11	-0.175	16.25	14.5

	300		lit	
innova	6	50	20	15
sunny	5	60	15	20

Average speed

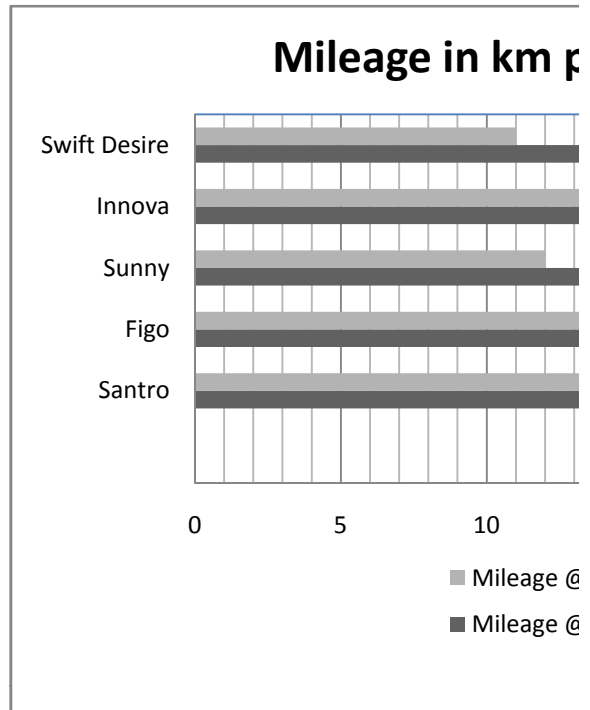
62.5

22.6875

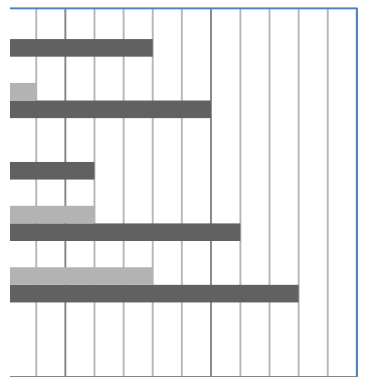
20.6875

15.75

19.625



per lit of Petrol



15

20

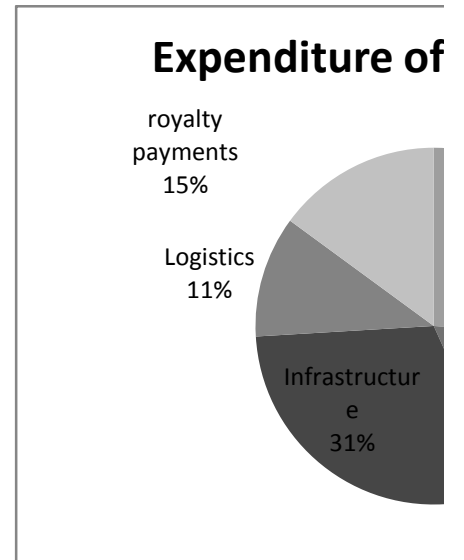
25

∅ 90 kmph

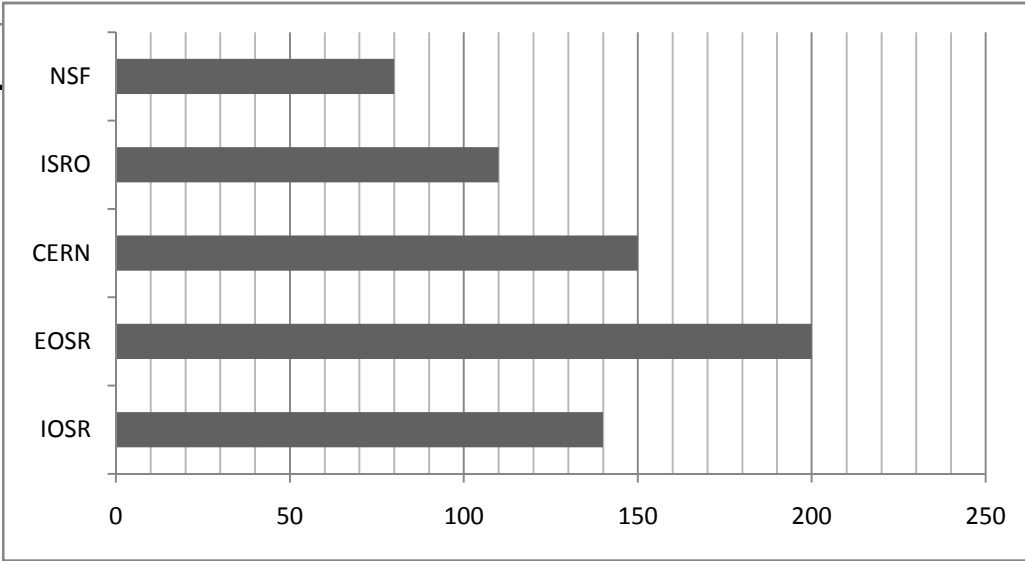
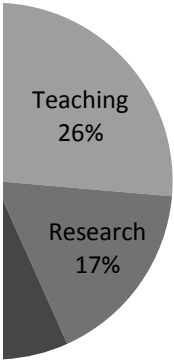
∅ 50 kmph

0.5	10	0.05
0.5	20	0.025
0.5	30	0.016667
0.5	40	0.0125
0.5	50	0.01
2.5	21.89781	0.114167

Field	Expenditure	
Teaching	1200	0.263736
Research	770	0.169231
Infrastructure	1400	
Logistics	500	
royalty payments	680	
	4550	
IOSR	140	
EOSR	200	0.043956
CERN	150	
ISRO	110	
NSF	80	



Research L



580	417.6	
841	571.88	
1421	989.48	0.696327