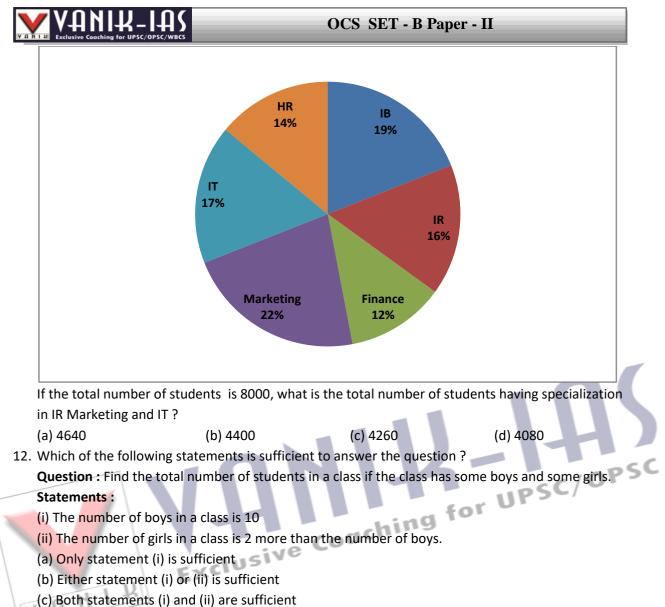
OCS SET - B Paper - II							
1.	Find the greatest 6 digit nu	mber among the follo	wing which is exactly	divisible by 24, 15 and 36.			
	(a) 999999	(b) 999720	(c) 999750	(d) 999820			
	Which of the following is /	are true for x = 7, y = 5	5, z = 3?				
	(a) xyz + 3 is composite	(b) x	yz – 4 is prime				
	(c) x + y + z + 10 is a perfect	•	ll of the above				
	What is the least positive in	nteger by which 750 sł	nould be multiplied s	o that the product is a perfect			
	cube?						
	(a) 12	(b) 24	(c) 36	(d) 48			
•	A perfect square number c						
	(a) 4	(b) 5	(c) 8	(d) 9			
5.	The value of $\sqrt{0.00059049}$	is					
	(a) 0.243	(b) 0.0243	(c) 0.00243	(d) 0.000243			
.	Which of the following stat	tement is true?					
	(a) All natural numbers are	also whole numbers					
	(b) There is no smallest wh						
	(c) The greatest whole number is 1000						
_	(d) 1 is the smallest whole number						
<i>'</i> .							
	(a) distributivity of multiplication over addition						
	(b) closure property(c) associativity of addition and multiplication						
	(d) commutative property	and multiplication					
3.	In the following series, how	w many such odd nur	bers are there which	h are divisible by 3 or 5, then			
_	followed by odd numbers a	and then also followed	hy even numbers:	IIPSC/			
	12 19 21 3 25 18 35 20		9 50 52 54 55 56	for			
	(a) 0	(b) 1	(c) 2	(d) 3			
followed by odd numbers and then also followed by even numbers: 12, 19, 21, 3, 25, 18, 35, 20, 22, 21, 45, 46, 47, 48, 9, 50, 52, 54, 55, 56 (a) 0 (b) 1 (c) 2 (d) 3 9. Aradhya , Reyansh and Akshit start at the same time in the same direction to run around							
	stadium. Aradhya completes one round in 252 second , Reyansh in 308 seconds and Akshit in 198						
	seconds. After what time will they meet again at the starting point?						
1	(a) 42 minutes 12 seconds (b) 44 minutes 30 seconds						
L	(c) 45 minutes 40 seconds		es 12 seconds				
0.	Let the positions of the firs			g set are reversed :			
	•	342 986		-			
	738 359 456						
			highest number and	l lowest number.			
	Find the difference betwee (a) 4		highest number and (c) 6	l lowest number. (d) 7			

11. The pie chart given below shows the percentage- wise breakup of students in terms or specialization in MBA:



- (d) Only statement (ii) is sufficient
- 13. The table below shows the daily income (in Rs) of 50 persons. Study the table carefully and answer the question given below :

No. of persons
12
26
34
40
50

How many persons earn Rs.300 or more but less than Rs.400 ?

(a) 8 (b) 12 (c) 22	(d) 38

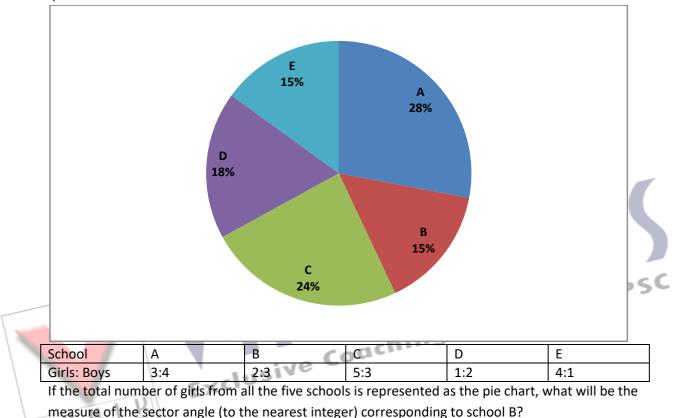
14. Five distinct shops sold varying quantities of umbrellas and raincoats in a specific month. The table given below provides the sales figures for each shop :

Shop	Number of umbrellas sold	Number of raincoats sold	
А	250	100	
В	120	140	
С	200	260	
D	350	320	
E	250	300	

Plot-1441, Opp. IOCL Petrol Pump, CRP Square, Bhubaneswar-751015 Ph.: 8984111101, 8093083555. Web: www.vanikias.com, E-mail: vaniksias@gmail.com

If both the number of umbrellas and the number of raincoats sold by shop F is 40% more than that by shop E then what is the difference between the number of umbrellas and the number of raincoats sold by shop F? (d) 50

- (a) 90 (b) 70 (c) 60
- 15. The pie chart given below shows the percentage of students in five schools and the table below shows the ratio of boys and girls in each school. Study the pie chart and the table and answer the question that follows :

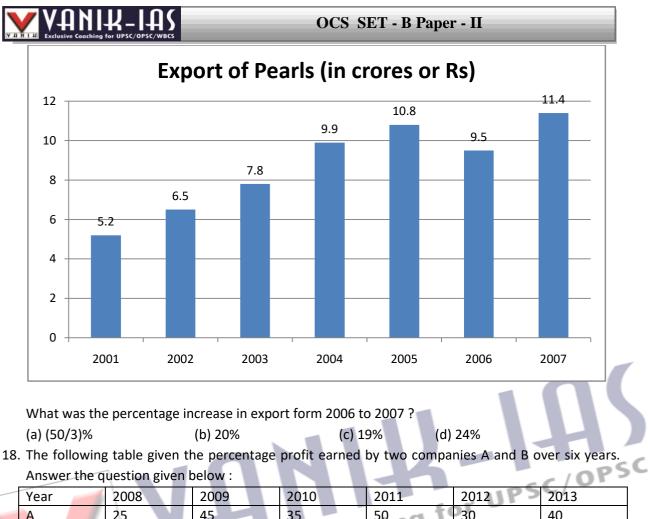


(a) 42⁰ (d)58⁰ (b) 32° (c) 48°

16. In the light of data sufficiency choose the appropriate option.

What will be the total weight of 10 poles, each of the pole is of same weight ? Statements :

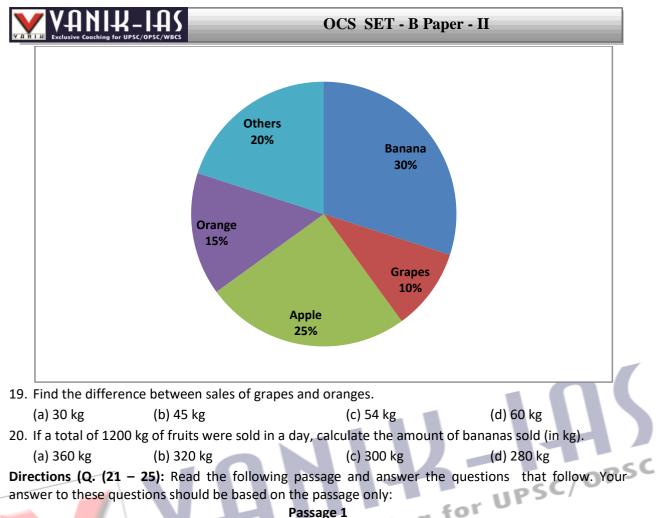
- (i) One –fourth of the weight of each pole is 5 kg.
- (ii) The total weight of three poles is 20 kg more than the total weight of two poles.
- (a) Statement (i) alone is sufficient while statement (ii) alone is not sufficient
- (b) Statement (ii) alone is sufficient while statement (i) alone is not sufficient
- (c) Either (i) or (ii) is sufficient
- (d) Neither (i) nor (ii) is sufficient
- 17. Study the bar diagram given below and answer the question :



A 25 45 35 50 30 40 B 40 35 50 45 40 45	10 2011 2012 2013	2010	2009	2008	Year			
B 40 35 50 45 40 45	A 25 45 35 50 30 40							
If the income of Company B in 2010 and 2011 were in the ratio of 2:3. Respectively, then wh								

the ratio of expenditures of that company in these two years ?(a) 9:12(b) 10:29(c) 20:27(d) 29:45

Direction (19 & 20) : Answer the questions based on the following pie chart that shows the sale of different fruits in a day for a shop :



Passage 1

The global refugee crisis has reached alarming proportions, with millions of people fleeing their homes due to conflict, persecution and instability. Data and statistics underscore the magnitude of this crisis, shedding light on the immense challenges faced by both refugees and host countries.

As of the most recent UNHCR report, there are over 82 million forcibly displaced people worldwide. This includes refugees, asylum seekers and internally displaced persons. The number of refugees alone has surpassed 26 million, with nearly 80% of them hosted by neighbouring countries in regions facing their own challenges.

Syria remains one of the most significant contributors to the refugee crisis . Since the onset of its civil war in 2011, an estimated 6.7 million Syrians have fled their country. Afghanistan is another major source, with over 2.7 million refugees, driven by ongoing conflict and insecurity. Venezuala's political and economic turmoils have resulted in a staggering 5.4 million people seeking refugees in neighbouring countries.

Developing nations shoulder a substantial burden in hosting refugees. Countries like Turkey, Pakistan and Uganda are among the top refugee - hosting nations. Turkey alone hosts more than 3.6 million refugees, primarily from Syria, placing significant strains on its resources and infrastructure.

The international community faces a collective challenge in addressing this crisis. Providing humanitarian aid, ensuring access to education and healthcare and facilitating resettlement are vital components of a comprehensive response. However, strained resources, political complexities and the growing trend of anti – immigrant sentiment in some host countries present obstacles to find effective solutions.

In conclusion, the current international refugee crisis is a complex issue with far reaching implications. Data and statistics highlight the staggering numbers of displaced individuals and the significant challenges faced by both refugees and host countries. Addressing this crisis requires international cooperation, policy reforms and a commitment to upholding human rights in the face of adversity.

21. What challenge is faced by host countries in addressing the refugee crisis?

- (a) Ample resources and infrastructure
- (b) Low levels of international cooperation
- (c) Anti Immigrant sentiment and strained resources
- (d) Ignoring human rights concerns.
- 22. How many forcibly displaced people are there globally, according to the UNHCR report?(a) 26 million(b) 50 million(c) 82 million(d) 100 million
- 23. Which country has hosted the largest number of refugees from Syria?(a) Turkey(b) Jordan(c) Lebanon
- 24. What is a major driver of the refugee crisis in Afghanistan?
 - (a) Economic Opportunities (b) Religious freedom
 - (c) Ongoing conflict and insecurity (d) Political Stability
- 25. Among the listed countries, which one hosts the most refugees?
 - (a) Germany (b) United States (c) Turkey (d) Canada

Passage – 2

(d) Iraq

Genetic engineering ,a revolutionary branch of biotechnology, continues to evolve rapidly, transforming the way we approach medicine, agriculture and various scientific endeavours. Recent developments in this field highlight both the immense potential and ethical considerations that come with the power to manipulate DNA.

In the medical realm, gene editing technologies like CRISPR – Cas 9 have gained prominence. These tools offer unprecedented precision in modifying genes, holding promise for treating genetic disorders. In the groundbreaking clinical trial, researchers successfully used gene editing to treat sickle cell anaemia. The patient's own modified cells were reintroduced into their body, resulting in reduced symptoms and an improved quality of life.

However, these advancement also raise ethical concerns. The potential for creating "design babies" through gene editing has sparked debates about the boundaries of genetic manipulation. The Question of whether it's ethical to alter human DNA to enhance physical or cognitive traits continues to challenge bioethicists, policymaker and society at large.

Data indicates the expontial growth of genetic engineering research. In the past decade, the number of scientific publications related to CRISPR technology has multiplied significantly. In 2010, there were approximately 150 CRISPR – related publications; by 2020, that number had soared to over 9,000. This surge demonstrates the profound impact of genetic engineering on the scientific community.

As we navigate this brave new world of genetic engineering, striking a balance between innovation and ethical considerations remains paramount. The potential to cure genetic diseases, enhance food security and make leaps in scientific understanding is immense. However, careful consideration and collaboration are necessary to ensure that the benefits are realized while addressing the ethical complexities that accompany these technological break througths.

26. How has the number of CRISPR – related scientific publications changed over the past decade?

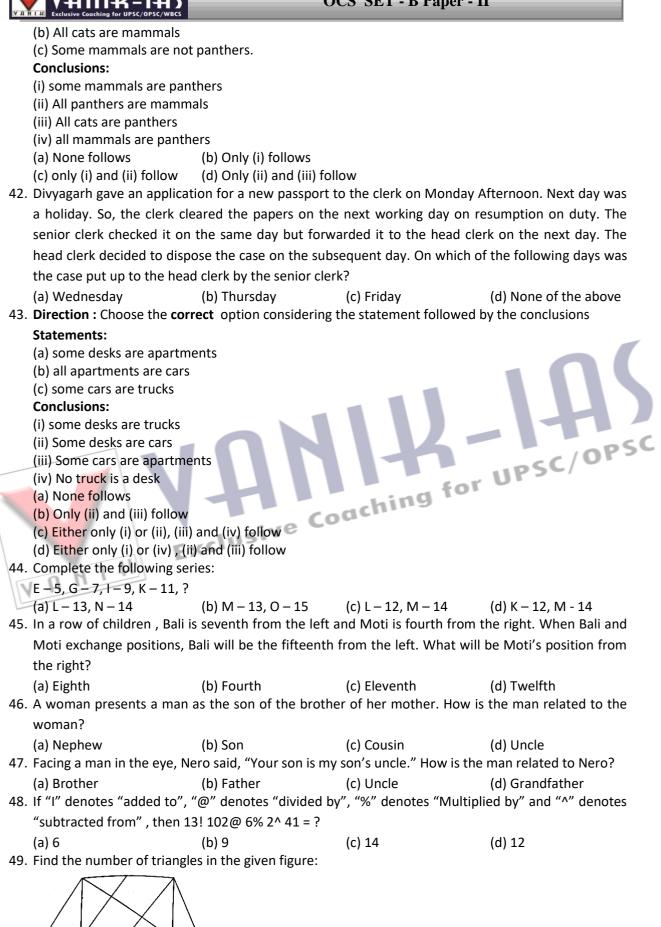
- (a) It has remained constant
- (b) It has decreased significantly
- (c) It has increased moderately (d) It has multiplied exponentially
- 27. Which gene editing technology has gained prominence recently?
 - (a) PCR (b) CRISPR Cas 9
 - (c) DNA sequencing (d) Microarray analysis

28. In the clinical trial, gene editing was successfully used to treat which genetic disorder?

- (a) Cystic fibrosis (b) Huntington's disease (c) Sickle cell anaemia (d) Diabetes
- 29. What is one of the benefits of Genetically Modified (GM) crops?
 - (a) Increased suspectibility to pests
 - (b) Reduced nutritional content
 - (c) Improved crop yield and pest resistance

VANIK – LAS	OCS SET - B Paper - II
(d) Longer growth periods	
30. What ethical concern is associated wi	ith genetic engineering?
	b) Enhancing cognitive traits
	d) Preventing malnutrition
Direction (11 - 12) : In questions given	below , a part of the sentence is italicised and underlined.
-	sed part which may improve the sentence. Choose the correct
alternative . In case no improvement is ne	
	might go too far and gain their freedom from serfdom, the
Protestant leaders joined the princes	-
(a) into crushing (b) in cru	• • • • •
32. The workers are <u>hell bent at getting</u>	
	ent for getting
(c) hell bent upon getting (d) No im	
	word which is the exact OPPOSITE of the given word:
ENORMOUS (a) Soft (b) Avera	nge (c) Tiny (d) Weak
	ow together with their meanings. Choose the correct meaning
of proverb / idiom:	
To keep one's temper	
	b) To be in good mood
	d) None of the above
35. Find the correctly spelt word.	
(a) Efficient (b) Treati	ment (c) Beterment (d) Employed
Directions (16 – 18) : Read the paragraph	and answer the following
	ne master alarm squealed through my earphones. Almost
	eeting but spectacular sights snapped into and out of view, the
	poming close and big, the dazzling sunshine for once unfiltered
	ig. During this module. Even after the fiery re – entry splashing
	buld still see our frosty breath inside the command module him was "for once unfiltered by layers of air" means
	b) that there was no strong wind
	d) none of the above
	wice in the given passage indicates perhaps that it deals with
	b) a commanding situation
	d) a frightful battle
	would one consider as more as possible for the warning lights
to be on?	
(a) There was a shower of debris (b) Jack was yelling
	d) The moon was looming close and big
	our alternatives , choose the one which can be substituted for
the given word/ sentence:	
	s like a fool.
Extreme old age when a man behave	
Extreme old age when a man behaves (a) Imbecility (b) Senilit	ty (c) Dotage (d) Superannuation
(a) Imbecility (b) Senili	e word which best expresses the meaning of the given word:
(a) Imbecility (b) Senili	
(a) Imbecility (b) Senilit 40. In the following question , choose the	e word which best expresses the meaning of the given word:
 (a) Imbecility (b) Senility 40. In the following question , choose the EMBEZZLE (a) Misappropriate (b) Balan 	e word which best expresses the meaning of the given word:
 (a) Imbecility (b) Senility 40. In the following question , choose the EMBEZZLE (a) Misappropriate (b) Balan 	e word which best expresses the meaning of the given word: ce (c) Remunerate (d) Clear





VANIK-IAS Exclusive Coaching for UPSC/OPSC/WBCS	OCS SET - B Paper - II				
(a) 8 (b) 10 60. Find the number of triangles in the a	(c) 12 (d) 14				
(X)					
AXXII					
(a) 22 (b) 24	(c) 26 (d) 28				
51. If the marked price of 30 articles is e	equal to the selling price of 40 article , then find the % discount.				
(a) 25% (b) 33.3					
	e fails by 32 marks. But if he scores 48% marks then he will get				
64 marks more than the passing ma					
(a) 40% (b) 50%					
	e in the ratio of 4 : 3 and their monthly expenses are in the ratio				
	000 per month. What is their total monthly income?				
(a) Rs 28000 (b) Rs 4					
P works thrice as fast as Q, whereas P and Q together can work four times as fast as R. If P, Q and R work together on a job, then in what ratio should they share the earnings?					
(a) 3 : 1 : 1 (b) 3 : 2					
(a) 5.1.1 (b) 5.2	2 days while 20 men can do it in 10 days. In how many days 12				
men and 15 women together can co	omplete the same work?				
(a) 4 (b) 5	omplete the same work? (c) 6 (d) 7				
6 Statement : One asnirants was kille	ed due to stampede while participating in a recruitment drive of				
'police constables'	sive				
'police constables' Courses of action:					
(i) The official in charge of the recru	uitment process should immediately be suspended.				
	ked to find out the circumstance which led to the death of the				
aspirants and submit its report with					
(iii) The Government should ask tr more number of days to avoid such	he home department to stagger the number of aspirants over incidents in future				
(a) only (i) (b) only					
	downpour during last two days has paralysed the normal life in				
	ere killed but this has provided a huge relief to the problem of				
acute water crisis in the state.					
Courses of Action :					
	t up a committee to review the alarming situation				
(ii) The state Government should in	mmediately remove all the restrictions, on use of potable water				
in all the major cities in the state.					
	end relief supplies to all the affected areas in the state				
(a) None (b) only	as decided to retreach one third of its employees in view of the				
8. Statement : A large private bank ha	as decided to retrench one third of its employees in view of the				
8. Statement : A large private bank has huge losses incurred by its during the					
58. Statement : A large private bank has huge losses incurred by its during th Courses of action:	he past three quarters.				
58. Statement : A large private bank has huge losses incurred by its during th Courses of action:					

(iii) The government should ask the central bank of the country to initiate an equire into the bank's activities and submit its report.

- (a) None (b) only (i) (c) only (ii) (d) only (iii)
- 59. Statement : Many political activities have decided to stage demonstrations and block traffic movement in the city during peak hours to protest against the steep rise in the prices of essential commodities.

Courses of action:

(i) The government should immediately ban all forms of agitations in the country.

(ii) The police authority of the city should deploy additional forces all over the city to help traffic movement in the city.

(iii) The state administration should carry out preventive arrests of the known criminals staying in the city.

(a) only (i) (b) Only (ii) (c) Only (iii) (d) only (i) and (ii)

60. Statement : The school dropout rate in many districts in the State has increased sharply during the last few years as the parents of these children make them work in the fields owned by others to earn enough for them to get at least one meal a day.

Courses of action:

(i) The government should put a mechanism to provide food grains to the poor people in these districts through public distribution system to encourage the parents to send their wards to school.

(ii) The Government should close down some of these schools in the district and deploy the teachers of these schools to nearby schools and also ask remaining students to join these schools. (iii) The government should issue arrest warrants for all the parents who force their children to

work in fields instead of attending classes. (a) only (i) (b) Only (ii) (c) only (iii) (d) only (i) and (ii) **Directions (61 – 65)**: Study the following information carefully and answer the questions given below: Following are the conditions for selecting Senior Manager – General Banking in a bank:

The candidate must

sive (i) have secured at least 60 percent marks in std XII

(ii) have secured at least 55per cent marks in graduation in any discipline

(iii) have secured at least 60 percent marks in Postgraduate degree/ diploma in Management/ Economics/ Statistics.

(iv) be at least 25 years and not more than 35 years as on 01 - 03 - 2010

(v) have post gualification work experience of at least 2 years as General Banking Officer in a bank

(vi) have secured at least 40 percent marks in the personal interview.

In case of a candidate who satisfies all the above conditions except.

(a) at (iii) above but has secured at least 60 percent marks in CA or ICWA, the case is to be referred to the VP - Recruitment

(b) at (vi) above but has secured at least 65 percent marks in the written examination and at least 35 percent marks in the personal interview, the case is to be referred to the president -Recruitment.

In each question below are given details of one candidate. You have to take one of the following courses of action based on the information provided and the conditions and sub conditions given above and mark the number of that course of action as your answer. You are not to assume anything other than the information provided in each question. All these are given to you as on 01-03 - 2010

61. Neeta Jaiswal was born on 2nd of June, 1980. She has been working in a bank as a Generalist officer for the past three years after completing her Postgraduatoin degree in Economics with 60 percent marks. She has secured 6 percent marks in H.Sc and 58 percent marks in B. Com. She has also secured 50 percent marks in both the written examination and personal interview.



- (a) The data provided is inadequate to take decisions.
- (b) The case is to be referred to the VP Recruitment
- (c) The case is to be referred to the President Recruitment
- (d) The candidate is to be selected.
- 62. Kesav Vora was born on 8th November, 1978. He has secured 65 percent marks in Std. XII and 60 percent marks in Graduation. He has secured 58 percent marks in MA Economics and 60 percent in ICWA. He has been working in a bank as a Generalist officer fort eh past two years after completing his education. He has also secured 50 percent marks in the written examination and 45 percent marks in the personal interview.
 - (a) The data provided is inadequate to take decision.
 - (b) The case is to be referred to the VP Recruitment
 - (c) The case is to be referred to the President Recruitment
 - (d) The candidate is to be selected
- 63. Arindam Ghosh has been working in a bank as a Generalist officer for the past four years after completing his postgraduate Diploma in Management with 60 percent marks. He has secured 50 percent marks in the written examination and 40 percent marks in the personal interviews. He has also secured 70 percent marks in std XII. He was born on 25th February, 1975.
 - (a) The data provided is inadequate to take decision.
 - (b) The case is to be referred to the VP Recruitment
 - (c) The candidate is to be selected
 - (d) The candidate is not to be selected.
- 64. Sohan Majhi has secured 65 percent marks in B.Sc and 70percent marks in M.Sc Statistics. He has been working in a bank as Generalist Officer for the past three years after completing his Postgraduation. He has secured 55 percent marks in the written examination and 50 percent marks in the personal interview. He was born on 8th of July . 1982.
 - (a) The data provided is inadequate to take decisions.
 - (b) The case is to be referred to the VP Recruitment.
 - (c) The case is to be referred to the President Recruitment
 - (d) The candidate is to be selected.
- 65. Neha Salve has been working in a bank as a Generalist officer for the past four years after completing her Postgraduate degree in Economics with 60 percent marks. She has secured 60 percent marks in both Graduation and std XII. She was born on 24th August, 1979. She has secured 70 percent marks in the written examination and 38 percent marks in the personal interview.
 - (a) The data provided is inadequate to take decision
 - (b) The case is to be referred to the VP Recruitment
 - (c) The case is to be referred to the President Recruitment
 - (d) The candidate is to be selected.
- 66. Keeping in mind the relation between number of the first pair, find the possible number for the 2nd pair from the options given below:
 - 43:12::84:?
- (a) 46
 (b) 32
 (c) 12
 (d) None of the above
 67. Three words are given in the following question which have common feature. Four options are given below the three words, one of which has that same common feature. Find the word:

Fruit, flower, stem

(a) Scent

- (b) Leaf (c) Vegetation (d) Forest
- 68. Three words are given in the following question. Four options are given below, one of which is representative of the three worlds. Find that option: Cheetah, Lion, Tiger

		OCS SET - B Pap	er - II
YANIH Exclusive Coaching for UPSC/OPSC/WBCS	(b) Extinct	-	
(a) zoo 69. Raj travelled from a poin	(b) Extinct t X straight to Y at a	(c) Circus distance of 80 metres H	(d) Carnivorous
	-		turned right and walked 50
metres. How far is he from	0		turned light and walked 50
(a) 10 metres	(b) 20 metres	(c) 50 metres	(d) 70 metres
70. Pointing to a photograph		.,	• •
of my father." How is the			
(a) Niece	(b) Sister	(c) Aunt	(d) Sister in law
Directions (71 – 75) : In the fe	• •	• •	
stands for surgical specialists			
71. College professors who a	re also Medical Spec	ialists are represented by	1
(a) A	(b) X	(c) Y	(d) Z
72. College professors who a		.,	
(a) A	(b) B	(c) C	(d) D
73. Surgical specialists who a	• •		
(a) B	(b) X		(d) 7
74. C represents			
(a) Medical specialists	(b) College profes	sors	or UPSC/OPS
(c) Surg <mark>ical s</mark> pecialists	(d) Medical and s	urgical specialists	or UPSCI
75. B represents		- ching	
(a) Professors who are ne		ingical specialists	
(b) Professors who are no			-+-
(c) Medical specialists wh(d) Professors who are no			515
Directions (76 – 80) : Read th	•		the questions given below:
(i) A, B, C, D, E, F and G are sit	-	-	
(ii) G is second to the left of C	-	_	
(iii) A is third to the left of E.			
(iv) B is between D and E.			
76. Which of the following is	•		
(a) Fourth to the right of			
(c) Between A and E	(d) To the middle	Right of A	
77. Which of the following is $(a) A$ is fourth to the right			
(a) A is fourth to the right(b) G is to the immediate			
(c) F is third to right of D			
(d) B is to the immediate	left of D		
78. Which of the following is			
(a) C is the fourth to the l			
(b) A is to the immediate			
(c) D is second to the left	-		
(d) B is second to the righ			
	-	-	ate left of the second person?
(a) BE	(b) CA	(c) GD	(d) DG



(a) FCE

(b) FEB

(c) DEB

(d) None of the above

