# AFCAT Solved Paper

11/2012

Directions (Q.Nos. 1-3) Read the following passage carefully and answer the questions given below.

### **Passage**

The development and widespread use of computer technology and the internet have transformed how we communicate, how business is conducted, how information is dispersed and how society is organised. Prior to 1980, in-depth information about any one subject-matter was attained through laborious research involving countless visits to libraries and *via* repeated interviews with persons of known reputation and reputable expertise. Now, a great deal of information is available at the click of a mouse button, all attainable from within the confines of one's own home or from the use of a computer in an office. Previous labour-intensive support jobs, such as loading and unpacking of trucks, luggage handling at airports and food manufacturing, once performed by a large middleclass workforce, are now performed routinely by robots which are monitored by computer-controlled systems. Our lives have been simplified but these benefits which have been ushered in by the technology revolution have had an adverse effect on the core of our interpersonal-relationships. Mere communication is no longer *via* postal mail or face-to-face contact, but rather *via* electronic email, personal internet message boards and by virtue of hand-held personal electronic assistants. Although computer technology has brought us to within a mouse-click of any sought-after piece of information, this technology boom has sequestered us to the confines of our computer desks and homes and has removed us away from those traditional settings where personal and communication skills are developed.

- 1. The author's attitude about the advent of computer technology can be best summarised as
  - (a) optimistic and thankful

(b) appreciative but reserved

(c) candid and reverent

- (d) understanding and obsessive
- 2. The author would agree with which of the following statements?
  - (a) The advent of computer technology has decreased access to libraries
  - (b) Because of advancements in robotics, labour-intensive jobs are more plentiful
  - (c) Although heralded as a great leap forward, the widespread use of computer technology is not without its setbacks
  - (d) Of all the benefits ushered in by the use the internet, electronic email is the most beneficial
- 3. The author's primary purpose in writing this passage is most likely which of the following?
  - (a) To downplay the need for the internet
  - (b) To explain how robotics and the internet have had both a positive and negative influence on how we live
  - (c) To pave way for he next great technology revolution
  - (d) To showcase the wonders of recent technology advancements

**Directions** (Q.Nos. 4-6) In each of the following, choose the word most similar in meaning to the word given in capitals.

4. OSMOSIS

(a) Gradual acceptance

(b) Slow recovery

(c) Abrupt ending

(d) Strength

5. OSTRACISE

(a) Take away

(b) Cut off

(c) Include

(d) Expedite

6. ALACRITY

(a) Hesitatingly

(b) Eagerness

(c) Unwillingly

(d) Laziness

**Directions** (Q.Nos. 7-10) In each of the following, choose the word most nearly opposite in meaning to the word given in capitals.

7.	PROFUSION	
	(a) Travesty	(b) Validity
	(c) Scarcity	(d) Agitated
8.	ESCHEW	
	(a) Vicious	(b) Invite
	(c) Use	(d) Emanate
9.	ABSTAIN	
	(a) Refuse	(b) Oppose
	(c) Run away	(d) Permit
0.	INSOLENT	
	(a) Affable	(b) Spotted

**Directions** (Q.Nos. 11-15) In each of the following questions, find out which part has an error.

(d) Mature

- 11. If you will (a)/follow my instructions (b)/you will get (c)/a suitable reward for this. (d)
- 12. Harshad, along with (a)/his brother (b)/ Ashwani and six senior officials (c)/were arrested. (d)
- 13. He received timely support (a)/from his elder brother (b)/who is working abroad (c)/for the last six years. (d)
- 14. One of the drawbacks (a)/of modern education are (b)/that it does not (c)/encourage original thinking. (d)
- 15. Morphine and other (a)/narcotic drugs are valuable (b)/medically, if misused (c)/it can cause irreparable damage. (d)

**Directions** (Q.Nos. 16-20) Pick up the most effective word from the given words to fill in the blanks to make the sentence meaningfully complete.

- 16. His book was marked by many ..... remarks which made us forget its main theme.
  - (a) irrelevant

(b) objective

(c) slanted

(c) Foolish

- (d) digressive
- 17. Some people have the capacity for learning foreign languages but they have no ..... to speak."
  - (a) interest

(b) ability

(c) fondness

- (d) inclination
- 18. The dispute among the parties became so ..... that there was every likelihood of a free exchange of blows.
  - (a) complicated

(b) acrimonious

(c) bellicose

- (d) aggressive
- 19. The judge decided to resign, when he was ...... for promotion to Chief Justice. 10000
  - (a) passed by

(b) passed out

(c) passed off

(d) passed over

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**20.** Questions will be answered by a ..... of experts.

(a) staff

(b) panel

(c) bunch

(d) band

Directions (Q.Nos. 21-60) Choose the most effective answers.

21. Who among the following had discovered the Brahmi Script in 1838?

(a) Sir William Jones

(b) Dr. Rajendra Lal Mitra

(c) Dr. Bhaw Dagi

- (d) James Prinsep
- 22. Who was known as father of administration in medieval India?

(a) Akbar

(b) Shershah Suri

(c) Humayun

(d) Aurangzeb

23. Brahma Samaj was founded by

(a) Raja Rammohan Roy

(b) Jawaharlal Nehru

(c) William Carev

- (d) Jonathan Duncan
- 24. Who discharges the function of the President when vacancy occur in the office of the President and Vice-President simultaneously, owing to removal, death, resignation or the incumbent or otherwise?
  - (a) Chief Justice of High Court
  - (b) Chief Justice of India.
  - (c) Speaker of Lok Sabha
  - (d) Chairman of Rajya Sabha
- 25. With which sport is Lewis Hamilton associated? (b) Hockey (c) Billiards (d) F-1
  - (a) Golf

- **26.** From which country does the top seeded tennis
- player Rafael Nadal hail from? (a) France (b) Germany (c) Spain (d) Russia 27. Which Indian Boxer won the gold medal in 60 kg category in Asian games and became the youngest to
  - win a boxing gold for India? (a) Vijendra Singh

(b) Vikas Krishan

(c) Ronjan Sodhi

- (d) Somdev
- 28. In 2010, Leander Paes in partnership with Cara Black won the mixed doubles title of
  - (a) Australian Open Tennis Championship
  - (b) Wimbledon Open Tennis Championship
  - (c) Both of the above
  - (d) None of the above
- 29. Term 'Prime Vertical' in astronomy is defined as
  - (a) the vertical circle which passes through the East and West points of the horizon and is at right angles to the meridian of the place.
  - (b) the vertical circle which passes through the North and South points of the horizon and is at right angles to the meridian of the place
  - (c) the vertical circle which passes through the East and West points of the horizon and is parallel to the meridian of the place
  - (d) the vertical circle which passes through the North and South points of the horizon and is parallel to the meridian of the place

<b>30.</b> MNREGA stands for  (a) Mahatma Gandhi National Revenue Engagement Guarantee Association	(a) 45.09 (b) 24 (c) 25 (d) 28
<ul> <li>(b) Maharaja National Revenue Employment Guarantee Act</li> <li>(c) Mahanagar National Rural Employment Guarantee Act</li> <li>(d) Mahatma Gandhi National Rural Employment Guarantee Act</li> </ul>	each bucket is 7 I. How many buckets will be needed to
<ul><li>31. River Jhelum emerges from</li><li>(a) Northern slopes of the Kailash range</li><li>(b) Spring at Verinag</li><li>(c) Rakas Lake</li><li>(d) Amarkantak plateau</li></ul>	43. A vessel, full of water, weighs 27.5 kg, when the vessel is 1 / 4 full, it weighs 12.26 kg. Find the weight of empty vessel. <ul> <li>(a) 7.18 kg</li> <li>(b) 6.54 kg</li> <li>(c) 2.75 kg</li> <li>(d) 2.5 kg</li> </ul>
32. Haematite ores is the ore of which metal?  (a) Iron (b) Aluminium (c) Zinc (d) Cobalt	<b>44.</b> If $a + b = 10$ and $ab = 21$ , find the value of $a^3 + b^3$ .  (a) 370 (b) 210 (c) 730 (d) 598 <b>45.</b> If $\frac{a}{a} = \frac{17}{a}$ , what is $\frac{(a+b)}{a}$ equal to?

(a)  $\frac{13}{7}$  (b)  $\frac{23}{11}$  (c)  $\frac{14}{5}$  (d)  $\frac{25}{9}$ 46.  $\frac{(598 + 479)^2 - (598 - 479)^2}{(598 \times 479)}$  is equal to **33.** Green revolution relates to which of the following? (a) Self-dependence in foodgrains production (b) Self-dependence in milk production (c) Self-dependence in petroleum crude oil production (d) None of the above

34. Nuclear Submarine Akula has been handed over to

35. Who is the author of book The Fragrance of Forgotten

36. Vertebrates have two endocrine glands associated

37. The layer common to two adjacent plant cells called

38. With the increase of the effective nuclear charge, the

(c) remains the same, since it has no bearing on size

(d) it will depend on period to period and group to group

39. On which of the following statements, is the kinetic

(c) Molecules experience forces of attraction between one

40. When heated with chloroform, secondary amines and

(b) Germany

(b) Bilkees Latif

(d) Jagat S Mehta

(b) pituitary, pancreas

(d) pancreas, pineal

(b) calcium sulphate

(d) calcium pectate

(b) gives cyanides

(d) (a) and (b)

(d) Russia

India recently by

(a) David Omand (c) Pranab Bardhan

(a) thyroid, thymus

(c) pituitary, pineal

(a) calcium phosphate

(c) calcium carbonate

(a) increases

(b) decreases

another

(d) All of the above

tertiary amines

(a) gives isocyanides

(c) do not give isocyanides

size of the atom or ion

theory of matter base?

(a) Matter is made up of molecules

(b) Molecules are in rapid motion

with the brain, namely

middle lamella is composed of

(a) France

(c) USA

Years'?

(c) 4

47. A man's average monthly expenditure for the first four months of the year was ₹ 225.25. For the next five months, the average monthly expenditure was ₹20.75 more than what it was during the first four months? If the person spent ₹ 700 in all during the remaining three months of the year find what percentage of his

annual income of ₹ 3500 he saved in the year? (b) 15 (c) 19.11

**48.** The ratio of the present age of P and Q is 2.3. The ratio of their age after 18 yr will be 4.5. What is the present age of Q?

(b) 25 yr (c) 24 yr (d) 27 yr (a) 26 yr

49. The mean temperature of Monday to Wednesday was 37°C and of Tuesday to Thursday was 34°C. If the temperature on Thursday was  $\frac{4}{5}$ th that of Monday,

the temperature on Thursday was (a) 36.5°C (b) 36°C (d) 34°C (c) 35.5°C

50. Srinivasan invests two equal amounts in two banks giving 10% and 12% rate of interest respectively. At the end of year, the interest earned is ₹ 1650. Find the sum invested in each.

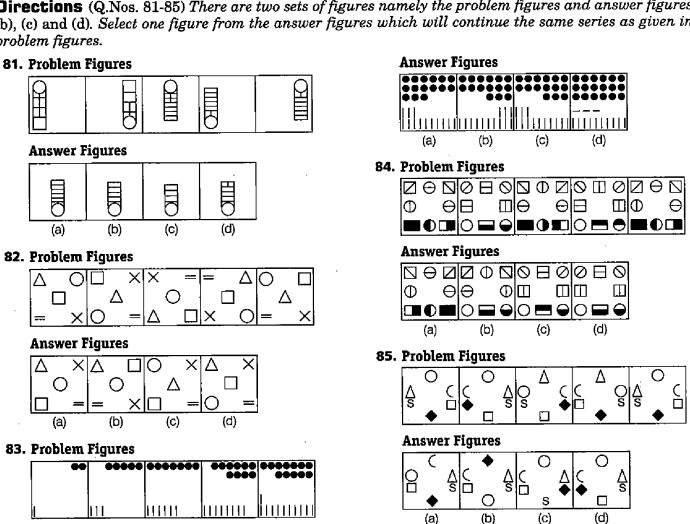
(a) ₹ 8500 (b) ₹ 15000 (d) ₹ 17000 (c) ₹7500

**51.** The simple interest on a sum of money is  $\frac{1}{0}$  of the sum. The number of years is numerically equal to the rate

per cent per annum. The rate per cent per annum is (d) 10 (a) 3.33 (b) 5 (c) 6.66

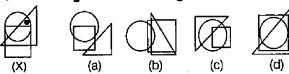
		nt partly at 8% and the im, if the yearly interest on oney lent at 10% is (b)₹5500 (d)₹4500	56.	A jar contains black and ten marbles in the jar, the could not be the ratio of the (a) 9:1 (c) 1:10	nen which of	the following
	voters cast their votes, ou were declared invalid. A	wo candidates, 60% of the t of which 4% of the votes candidate got 7344 votes al valid votes. Find the total n that election. (b) 17590 (d) 7344		A sum of money is to be d in the ratio of $6:19:7$ . If to $Q$ , the ratio of $P$ , $Q$ and the total sum?  (a) $\stackrel{?}{\stackrel{?}{\stackrel{?}{\stackrel{?}{\stackrel{?}{\stackrel{?}{\stackrel{?}{\stackrel{?}$	R gives ₹200 R becomes 3: (b) ₹12800 (d) Data inade	from his share 10 : 3, what is quate
	much per cent a house	to be raised by 9%, find how e-holder must reduce his so that not to increase his		with tea worth ₹ 14 per kg the mixture may be ₹ 11 p (a) 2:1 (c) 3:2	, so that the a er kg? (b) 3 : 1 (d) 4 : 3	verage price of
55.	(c) 9 65 pupils from a school e	(d) 9.25 Intered for an examination I. Another school entered		Calculate the amount of annum, compounded year (a) ₹676 (c) ₹1778		yr ac 4% per
		first school and four more tage of pass in the second (b) 84 (d) 74.6	60.	A sum of ₹ 3200 is lent or and another at 4%. If the f find the money lent at 6% (a) ₹ 2400 (c) ₹ 1600	total annual ir	
		In the following questions, ith the same relationship.	the	words given bear a certo	in relationsi	hip. Find out
61.	Surgeon: Scalpel::? (a) Musician: Instrument (c) Carpenter: Cabinet,	(b) Sculptor : Chisel (d) Baker : Oven	66.	Ecstasy: Pleasure::? (a) Hatred: Affection (c) Joy: Grief	(b) Rage : Ang (d) Mumble : S	
62.	Creche: Infants::? (a) School: Pupils (c) Cottage: Guests	(b) Deck : Sailors (d) Aircraft: Crew	67.	Necromancy: Ghosts::? (a) Romance: Stories (c) Alchemy: Gold	(b) Magic : Am (d) Sorcery : S	
63.	Pesticide: Plant::? (a) Injection: Disease (c) Medicine: Cure	(b) Teacher: Student (d) Vaccination: Body	68.	Coin: Mint::? (a) Grain: Field (c) Wine: Brewery	(b) Hay : Stabl (d) Book : Pub	
64,	Stare: Glance::? (a) Gulp: Sip (c) Hunt: Stalk	(b) Story : tell (d) Step : Walk	69.	Oak: Coniferous::? (a) Chimpanzee: Ape (c) Fish: Sea	(b) Animals : C (d) Tree : Grov	
65.	Fish: Aquarium::? (a) Student: Hostel (c) Goods: Consignment	(b) Bird : Forest (d) Bee : Apiary	70.	Onam: Kerala::? (a) Christmas: Christians (c) Kathak: Uttar Pradesh	(b) Bhangra : f (d) Bihu : Asor	-
		In each of the following que nalternatives, that belongs			terrelated we	ords is given.
	Calendar: Dates:: Diction (a) Vocabulary (c) Words	nary:?	73.	Malaria: Disease:: Sword (a) Wound (b) Spear	l : ? (c) Weapon	(d) Rifle
72.	<pre>Heed : Neglect :: Pacify : (a) Incite</pre>	? (b) Allay		Eye: Wink:: Heart:? (a) Move (b) Throb Earth: Sun:: Moon:?	(c) Pump	(d) Quiver
	(c) War	(d) Victory		(a) Orbit (b) Sky	(c) Star	(d) Earth

<b>76.</b> (a) Rose	(b) Lotus	(c) Marigold	(d) Tulip	<b>79.</b> (a) Kiwi	(b) Eagle	(c) Emu	(d) Penguin
<b>77.</b> (a) Book	(b) Sharpener	(c) Pencil	(d) Paper	<b>80.</b> (a) Raniganj	(b) Jharia	(c) Bokaro	(d) Baroda
<b>78.</b> (a) Copper	(b) Tin	(c) Brass	(d) Zinc	-			
Directions (6) (b), (c) and (d). A problem figures.	Select one fig	) There are t gure from th	two sets of figure se answer figure	es namely the pr es which will con	oblem figur itinue the s	res and ansu same series d	ver figures (i is given in t

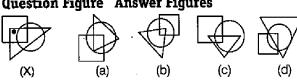


Directions (Q. Nos. 86-90) From amongst the figures marked namely (a), (b), (c) and (d), select the figure which satisfies the same conditions of placement of the dot as in figure (X).

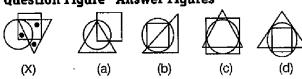
# 86. Question Figure Answer Figures



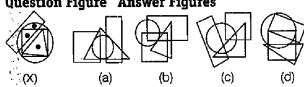
## 87. Question Figure Answer Figures



#### 88. Question Figure Answer Figures



89. Question Figure Answer Figures



#### 90. Question Figure Answer Figures



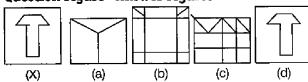






Directions (Q.Nos. 91-95) The original figure is embedded or hidden in one of the answer figures (a), (b), (c) and (d). Select the alternative that carries the correct figure which clearly shows the embedded portion of the original figures.

#### 91. Question Figure Answer Figures



#### 92. Question Figure Answer Figures







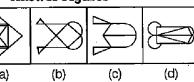




#### 93. Question Figure Answer Figures



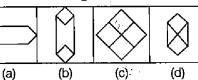




#### 94. Question Figure Answer Figures

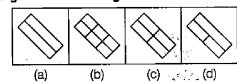






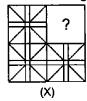
## 95. Question Figure Answer Figures





#### **Directions** (Q.Nos. 96-100) Find out the given option (a), (b), (c) and (d) the right figure to fit in the missing figure.

#### 96. Question Figure Answer Figures



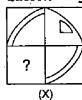








97. Question Figure Answer Figures



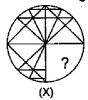








98. Question Figure Answer Figures











99. Question Figure Answer Figures











100.Question Figure Answer Figures











# Answers

1. 11. 21. 31. 41. 51. 61. 71. 81.	(b) (a) (d) (b) (b) (a) (c) (a) (d)	2. 12. 22. 32. 42. 52. 62. 72. 82. 92.	(c) (d) (b) (a) (c) (a) (c) (a) (a) (c)	3. 13. 23. 33. 43. 53. 63. 73. 83.	(b) (c) (a) (a) (c) (d) (c) (c) (b)	4. 14. 24. 34. 44. 54. 64. 74. 84. 94.	(a) (b) (b) (d) (a) (b) (d) (d) (b)	5. 15. 25. 35. 45. 55. 65. 75. 85.	(b) (d) (d) (d) (d) (d) (d) (d)	6. 16. 26. 36. 46. 56. 76. 86. 96.	(b) (d) (c) (c) (c) (d) (d)	7. 17. 27. 37. 47. 57. 67. 77. 87.	(c) (b) (d) (c) (c) (c) (a) (c) (a)	8. 18. 28. 38. 48. 58. 68. 78. 88.	(b) (b) (a) (c) (d) (d) (d) (d) (c) (c)	9. 19. 29. 39. 49. 59. 69. 89.	(d) (d) (a) (d) (b) (b) (a) (b) (d)	10. 20. 30. 40. 50. 60. 70. 80. 90.	(a) (b) (d) (c) (c) (a) (d) (d) (a) (c)
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# Hints and Solutions

- **22.** Shershah Suri was first medieval king who organised his administration—especially civil and land administration. Akbar was by and far influenced by his administration.
- **23.** Brahma Samaj was founded by Raja Rammohan Roy in 1828 in Bengal. It opposed sati system.
- **24.** When the offices of President and Vice-president are vacant simultaneously Chief Justice of India shall discharge the function of the President.
- 26. Top seeded tennis player Rafael Nadal hails from Spain.
- 30. MNREGA stands for Mahatma Gandhi National Rural Employment Guarantee Act. This act was implemented in 2006.
- **32.** Haematite is an ore of iron. It contains 60-70% of pure iron. It is reddish in colour and is known as red ore.
- **33.** Green Revolution is associated with agriculture. It was started in 1960s to make the country self-dependent in foodgrains production.
- 34. Akula is a Russian nuclear submarine prepared for India.
- **35.** The book 'The Fragrance of Forgotten Years' is written by Bilkees Latif.

**41.** 
$$(40)^2 - (32)^2 = (40 + 32)(40 - 32) = 72 \times 8 = 576$$
  
 $x^2 = 576$   
 $x = 24$ 

- ∴ Number = 24
- **42.** Number of buckets =  $\frac{15 \times 7}{5}$  = 21
- **44.** We have, a + b = 10 and ab = 21  $a^3 + b^3 = (a + b)^3 3ab(a + b) = (10)^3 3(21)(10)$  = 1000 630 = 370

45. 
$$\frac{a}{a+b} = \frac{17}{23}$$

$$1 - \frac{a}{a+b} = 1 - \frac{17}{23}$$

$$\frac{a+b-a}{a+b} = \frac{6}{23}$$

$$\frac{b}{a+b} = \frac{6}{23}$$

$$\frac{a}{a+b} - \frac{b}{a+b} = \frac{17}{23} - \frac{6}{23}$$

$$\frac{a-b}{a+b} = \frac{11}{23}$$

$$\frac{a+b}{a-b} = \frac{23}{11}$$

46. Let 598 = a and

$$479 = b \Rightarrow \frac{(a+b)^2 - (a-b)^2}{ab} = \frac{4ab}{ab} = 4$$

**47.** Total expenditure four months =  $225.25 \times 4 = 901$ 

Total expenditure five months =  $(225.25+20.75)\times 5$ =  $246\times 5 = ₹ 1230$ 

Total expenditure in 12 months = 901+ 1230 + 700 = ₹2831

Saving = 3500 – 2831 = ₹ 669

Percentage saving = 
$$\frac{669}{3500} \times 100 = 19.11\%$$

**48.** Let present age of P = 2x yr and present age of Q = 3x yr

$$\frac{2x+18}{3x+18} = \frac{4}{5}$$

$$12x+72 = 10x+90$$

$$2x = 18$$

$$x = 9$$

∴ Present age of Q = 3×9 = 27 yr

**49.**  $M+T+W=37\times3=111^{\circ}\text{C}$   $T+W+Th=34\times3=102^{\circ}\text{C}$ On subtracting Eqs. (i) and (ii),  $M-Th=9^{\circ}\text{C}$ 

$$M - \frac{4}{5}M = 9$$

$$M = 45^{\circ}\text{C}$$

$$Th = \frac{4}{5} \times 45 = 36^{\circ}\text{C}$$

**50.** Let sum invested = ₹x

$$\frac{x \times 10 \times 1}{100} + \frac{x \times 12 \times 1}{100} = 1650$$

$$22x = 1650 \times 100$$

$$x = \frac{1650 \times 100}{22} = ₹7500$$

**51.** SI = 
$$\frac{p}{q}$$
,  $r = t$   
SI =  $\frac{p \times r \times t}{100}$   
 $\frac{p}{q} = \frac{p \times r \times r}{100}$   
 $r^2 = \frac{100}{9}$   
 $r = \frac{10}{3} = 3.33\%$ 

**52.** Let  $P_1 = x$ ,  $P_2 = (10000 - x)$ ,  $r_1 = 8\%$ ,  $r_2 = 10\%$ 

According to the question,  

$$\frac{x \times 8 \times 1}{100} + \frac{(10000 - x) \times 10 \times 1}{100} = 920$$

 $8x - 10x + 100000 = 920 \times 100$ 2x = 8000

x = ₹ 4000Money lent at 10% = 10000 - 4000 = ₹ 6000

**54.** Reduce the consumption =  $\left(\frac{r}{100 + r} \times 100\right)$  $\frac{9}{100 + 9} \times 100 = \frac{900}{109} = 825\%$ 

**55.** Number of passed pupils =  $\frac{80}{100} \times 65 = 52$ 

65+10=75, 52+4=56 out of 75 passed 56 pupils  
Percentage passed = 
$$\frac{56}{75} \times 100 = \frac{224}{3} = 74.6\%$$

1200 : 3800 : 1400

R gives 200 to Q

1200 : 4000 : 1200

3 : 10 : 3

∴Total amount of P, Q and R = 1200 + 3800 + 1400 = ₹ 6400

**59.** 
$$A = P\left(1 + \frac{r}{100}\right)^t = 1250\left(1 + \frac{4}{100}\right)^2$$
  
=  $1250 \times \frac{26}{25} \times \frac{26}{25} = 2 \times 676 = ₹ 1352$ 

**60.** 
$$P = x$$
  $P = (3200 - x)$ 

r = 6% r = 4%

According to the question,

$$\frac{x \times 6 \times 1}{100} + \frac{(3200 - x) \times 4 \times 1}{100} = 1760$$

$$6x - 4x + 12800 = 17600$$

$$2x = 4800$$

$$x = ₹2400$$

Hence, the money lent at 6% = ₹2400

- **81.** In every next image, symbol is rotated by 180° and position changes in the sequence of 90°, 45°, 45°.
- **82.** In the given question, symbols are changing their position in this pattern



In next figure, rotation is like



Required answer pattern is



- **83.** Arrangement of lines is left hand side arrangement and it is increasing in the pattern of 2, 3, 2, 3, 2, 3, ... While arrangement of points is along right hand side arrangement and it is increasing in the pattern of 3, 2, 3, 2, 3,

So, required answer figure must contain first row as like 'Ø⊟ Ø'.

**85.** Symbols in the given figure changing their position according to the following







and so on Required answer figure pattern is



- **86.** In figure (X) dot (.) is inside triangle and circle. In the given figures, only figure (c) can place dot (.) inside triangle and circle.
- **87.** One dot (.) is inside square and triangle while another dot (.) is inside triangle and circle. The required figure (c) can only contain these two points at required position.
- **88.** First dot (.) is inside square and circle. Second dot (.) is inside square and triangle while third dot (.) is inside triangle only. The required answer is figure (c).



**89.** First dot (.) is inside rectangle and circle. Second dot (.) is inside square, rectangle and circle. While third dot (.) is inside triangle, square and circle.

The required answer is figure (d).



**90.** First dot (.) is inside square and rectangle. Second dot (.) is inside square, rectangle, circle and triangle. Third dot (.) is inside rectangle and triangle.



91. Option (d) figure is same as figure (X)

92.



Figure (X) is embedded in the figure given in option (c).

93.



Figure (X) is embedded in the figure given in option (b).

94.



Figure (X) is embedded in the figure given in option (b).

95.



Figure (X) is embedded in the figure given in option (d).