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JOINT ENTRANCE EXAMINATION (JEE)

PATTERN FOR WRITTEN EXAMINATION

Subject	No. of Questions	Duration
1. Numerical Ability & Scientific Aptitude	40	3 Hours
2. Reasoning & Logical Deduction	40	
3. General Knowledge	40	
4. English Language	40	
5. Aptitude for Service Sector	40	

Specimen Answer Sheet:

In your examination you will be provided an Answer Booklet and all your particulars like Name of the Candidate & Seat Number are to be filled in first using a ball-point pen. In your Question Booklet you will find 200 questions (5 x 40). In front of each serial number there will be five ovals or circles (O) are shown below:

How to Show Your Answers:

Using HB Pencil (not ball-point pen or ink pen) blacken the oval bearing the correct answer against the serial number of the question.

e.g. Q.5 O O O ● O O

How to change Your Answer:

If you wish to change your answer, erase completely the already darkened oval by using good quality eraser and then blacken the new oval bearing your revised answer number.

Some Examples of Wrong Method of Marking the Answers:

- | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|
| 1) Do not use tick mark | ✓ | O | ✓ | O | O | O | O |
| 2) Do not use cross mark | X | O | O | X | O | O | O |
| 3) Do not use dot mark | • | O | • | O | O | O | O |
| 4) Do not use line mark | / | O | O | / | O | O | O |
| 5) Dot mark outside the oval | • | O | O | O | • | O | O |
| 6) Do not leave half-filled oval | | O | ◐ | O | O | O | O |

If you are going to use any of the above methods your answer Sheet will not be evaluated even if you have attempted all questions correctly

Numerical Ability and Scientific Aptitude

Each of the questions given below is followed by four alternatives of which one is correct. The candidates are required to go through the questions and the following alternatives carefully and select the correct answer.

Examples

1	By selling an article for Rs. 4080, a man loses 15%. Cost price of this article is			
	A. Rs. 4800	B. Rs. 4500	C. Rs. 5000	D. Rs. 5180
Answer	(A) Selling Price of the article = Rs. 4080, Loss = 15%			
	$\therefore \text{Cost Price} = \frac{\text{Selling Price}}{\left(1 - \frac{\text{Loss}\%}{100}\right)} = \text{Selling Price} \times \frac{100}{(100 - \text{Loss}\%)}$			
	$\therefore \text{Cost Price} = \text{Rs. } 4080 \times \frac{100}{(100 - 15)} = \text{Rs. } 4080 \times \frac{100}{85} = \text{RS. } 4800$			
2	A and B started a business in partnership with the investment of Rs. 4000 and Rs. 6000 respectively. If at the end of the year total profit is Rs. 2250, what will each of them get?			
	A. Rs. 900, Rs. 1350		B. Rs. 800, Rs. 1450	
	C. Rs. 1000, Rs. 1250		D. Rs. 1200, Rs. 1050	
Answer	(A) It is clear that A and B invest their capitals for the same period			
	\therefore Ratio between the profits of A and B = 4000 : 6000 = 2 : 3			
	\therefore sum of proportionals = 2 + 3 = 5			
	Total profit in the business = RS. 2250			
	\therefore A's share in the profit = $\frac{2}{5} \times 2250 = \text{Rs. } 900$			
	\therefore B's share in the profit = $\frac{3}{5} \times 2250 = \text{Rs. } 1350$			
3	The base and the height of a triangle is 8 cm and 10 cm respectively. Its area will be:			
	A. 40 sq. cm.		B. 20 sq. cm.	
	C. 49 sq. cm.		D. 64 sq. cm.	
Answer	(A) area of the triangle = $\frac{1}{2} \times \text{base} \times \text{height}$			
	$= \frac{1}{2} \times 8 \times 10 = 40 \text{ sq. cm.}$			

4	If 80% of a number is 20, then 20% of that number will be:			
	A. 4	B. 3	C. 2	D. 5
Answer	(D) Suppose the number = x			
	$\therefore 80\% \text{ of } x = 20$			
	Or $\frac{80 \times x}{100} = 20$ or $x = \frac{20 \times 100}{80} = 25$			
	$\therefore 20\% \text{ of } 25 = \frac{20 \times 25}{100} = 5.$			
5	In which ratio, the sugar worth Rs. 15 per kg and Rs. 19 per kg be mixed, so that by selling the mixture for Rs. 21.60 per kg 20% profit may be earned?			
	A. 3 : 5	B. 2 : 3	C. 1 : 3	D. 3 : 1
Answer	(C) Selling price of mixture = RS. 21.60 per kg with 20% profit			
	Cost of mixture	$= 21.60 \times \frac{100}{120}$		
		$= \text{Rs. } 18 \text{ per kg.}$		
	\therefore Sugar worth Rs. 15 per kg is cheaper than the mixture	$= \text{Rs. } 18 - \text{Rs. } 15$		
		$= \text{Rs. } 3 \text{ per kg}$		
	And sugar worth Rs. 19 per kg is costlier than the mixture	$= \text{RS. } 19 - \text{Rs. } 18$		
		$= \text{Rs. } 1 \text{ per kg}$		
	\therefore For equating the prices of the cheaper and the costlier sugars than the cost price of the mixture, these prices will have to be multiplied by 1 and 3 respective.			
	\therefore The two sugars should be mixed in the ratio of 1 : 3.			

English Language

Direction :

In each of the following sentences certain parts have been underlined which are marked A, B, C and D. One of these underlined parts may contain an error or may not be acceptable in standard written communication. Mark that part as your answer. If there is no error in any of the parts, mark 'E' (no error) as your answer:

1. She wore a dress to the party that was far more attractive than the other girls.
A B C D

No error.

E

Answer (D) "... than those of the other girls."

The dress that the girl wore was more attractive than the dresses of the other girls-not more attractive than the other girls.

2. Madhuri Dixit, who won the beauty contest in nowhere near as beautiful as Sri
A B C

Devi was when she was young. No error.

D

E

Answer (B) "... is not nearly as beautiful..."

Do not use expression nowhere near for not nearly.

Direction :

In each of the following sentences one word has been italicized. Under each sentence four alternative word, marked a-d, are give. Select from these alternative words, the word which conveys more or less same meaning as the italicized word in the sentence:

3. The use of bullock carts is a superannuated mode of transportation.
(a) cheaper (b) obsolete (c) quicker (d) rural

Answer (B)

4. His fidelity to the ideals of Mahatma Gandhi was exemplary.
(a) criticism (b) acceptance
(c) loyalty (d) strong opposition

Answer (C)

Synonyms

Choose the word which is most nearly the same in meaning as the word given below:

5. SAVOURING.
(a) Eating (b) Enjoying (c) Liking (d) Loving

Answer (B)

Objective General Knowledge

1. _____ is the most important constituent of soil.
- a) Sand
 - b) Silt
 - c) Clay
 - d) Earthworms

Answer (c)

2. Man has _____ bones.
- a) 108
 - b) 306
 - c) 208
 - d) 406

Answer (b)

3. The Indian Constitution is a Republican because it has:
- a) A Parliament
 - b) An elected Prime Minister
 - c) A Federal Form of Government
 - d) An elected President

Answer (d)

4. The largest artificial lake in India is :
- a) Pusher Lake
 - b) Dal Lake
 - c) Govind Sagar (Bhakra)
 - d) Nainital Lake

Answer (c)

5. Sky is blue because of the:
- a) Blue colour of oceans.
 - b) Scattering of blue light by dust particles.
 - c) Scattering of red light by dust particles.
 - d) Reflection of various

Answer (b)

Aptitude for Service Sector

1. You are in the purchase department. A supplier tries to supply bad quality vegetables and assures you a percentage of bill amount. You will
- a) Accept the supplies and will demand your share from the bill amount.
 - b) Immediately cut off the relationship with supplier and at the same time will report the matter to seniors
 - c) You will discuss with your colleagues.
 - d) None of the above.

Answer (b)

2. A customer / guest gives you some suggestions for improvement. You will
- a) Throw the suggestions in dustbin.
 - b) Accept the suggestions in toto.
 - c) Discuss the suggestion with concerned persons and will adopt suitable suggestions.
 - d) Non of the above.

Answer (c)

3. An angry customer wants to meet the senior manager for grievance reporting. What will you do?
- a) Talk to him yourself.
 - b) Tell him it is not easy to meet the senior manager.
 - c) Be patient and try to cool him down.
 - d) Try to remove his inconvenience by consulting seniors.

Answer (d)

4. While going for a party wearing your best clothes, you were hit by a cyclist and your clothes became dirty you
- a) Pick up a quarrel with the cyclist.
 - b) Do not talk it seriously, but change your clothes and join the party late.
 - c) Remove the dirt from the clothes as far as possible and join the party in time.
 - d) Do not go for the party.

Answer (b)

5. After talking to somebody for the first time, you
- a) Take steps to find out how yours behaviour was perceived.
 - b) Don't talk it all that seriously.
 - c) Think about how the other person improves you.
 - d) Pick up some hints and change the behaviour accordingly..

Answer (d)

Reasoning and Logical Deductions

Directions: (Q.No. 1 to 3) Each row consists of four figures called problem figures and four called answer figures. The four problem figures make a series. You are to find which one of the answer figures would be the next or the fifth one in the series.

1) PROBLEM FIGURES ANSWER FIGURES

A	B	C	D	E	1	2	3	4	5

Solution : Here, the arrow rotates one step clockwise in every subsequent figure.
∴ The answer is figure (2).

2) PROBLEM FIGURES ANSWER FIGURES

A	B	C	D	1	2	3	4	5

Solution : Figure (B) is the water image of figure (A). Similarly, the water image of figure (C) is figure (2). Hence, the answer is (2)

3) Out of the following five figures, four are alike in some manner and one differs from these in that manner. Select the odd figure.

(a)	(b)	(c)	(d)	(e)

Solution : Except in figure (b), in all other figures, the outer figure encloses a figure with one side more than the outer figure. Hence, figure (b) is the answer.

Directions (Q.No.4): Fill in the blanks:

- 4) Rod is to Distance as Pound is to _____
- | | |
|-----------|-----------|
| a) Ounce | b) Heavy |
| c) Weight | d) Travel |

Answer: (C)

Directions (Q.No.5): Four words are given below. One of the answer choices below is similar to these four words. Pick that out. (Hint – The words might be making a series):

- Q.5 North, North-east, East, South
- | | |
|---------------|---------------|
| a) West | b) South-west |
| c) South-east | d) North-west |

Answer: (B)