





# Sample Paper - 5 Year Program

## **Admission & Scholarship Test**

## **Duration : 3.0 Hrs**

### Maximum Marks: 305

#### **PAPER SCHEME :**

- The paper contains 60 Objective Type Questions divided into three sections: Section I, Section II and Section – III.
- Section I contains 10 Multiple Choice Questions (1-10) based on Mental Aptitude. Each question has • 4 choices (A), (B), (C) and (D), out of which ONLY ONE CHOICE is correct.
- Section II contains 35 Multiple Choice Questions (11-45) based on Mathematics. Each question has . 4 choices (A), (B), (C) and (D), out of which ONLY ONE CHOICE is correct.
- Section III contains 15 Multiple Choice Questions (46-60) based on Science. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE CHOICE is correct.

#### **MARKING SCHEME :**

- KING SCHEME : Section I : For each question, 4 marks will be awarded for correct answer and -1 negative marking for • incorrect answer.
- Section II : For each question, 5 marks will be awarded for correct answer and -1 negative marking for incorrect answer.
- Section III : For each question, 6 marks will be awarded for correct answer and -1 negative marking for incorrect answer.

#### **GENERAL INSTRUCTIONS :**

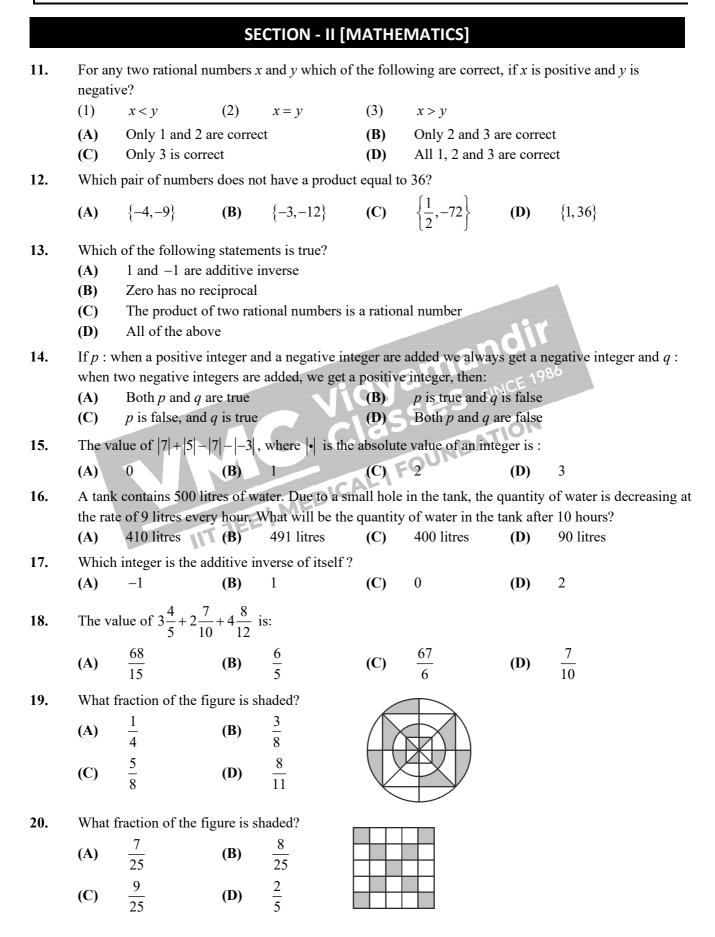
- For answering a question, an ANSWER SHEET (OMR SHEET) is provided separately. Please fill your Name, Roll Number, Seat ID, Date of Birth and the PAPER CODE properly in the space provided in the ANSWER SHEET. IT IS YOUR OWN RESPONSIBILITY TO FILL THE OMR SHEET CORRECTLY.
- A blank space has been provided on each page for rough work. You will not be provided with any • supplement or rough sheet.
- The use of log tables, calculator and any other electronic device is strictly prohibited. .
- Violating the examination room discipline will immediately lead to the cancellation of your paper and no . excuses will be entertained.
- No one will be permitted to leave the examination hall before the end of the test.
- Please submit both the question paper and the answer sheet to the invigilator before leaving the examination hall.

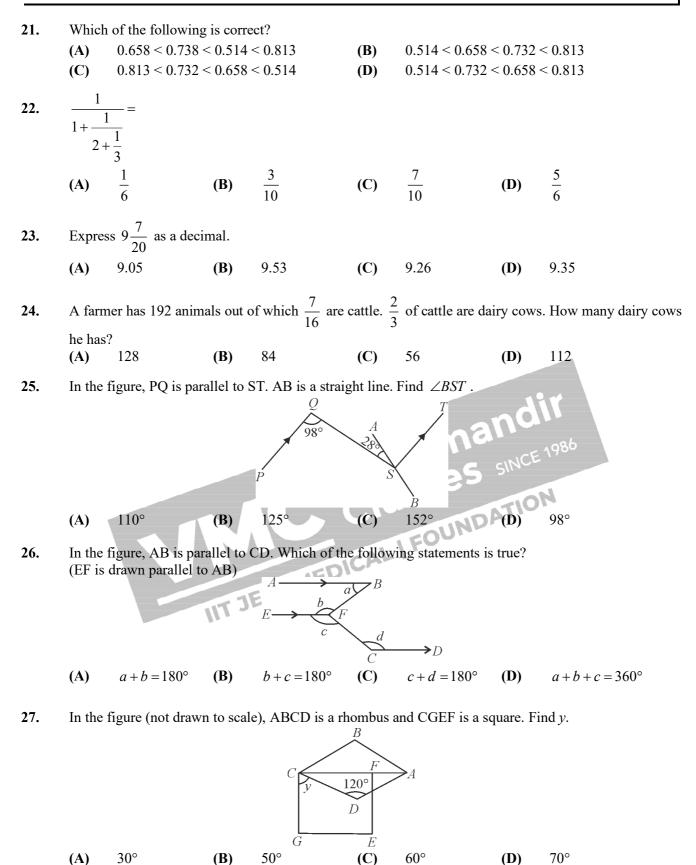
#### **SUGGESTIONS:**

- Before starting the paper, spend 2-3 minutes to check whether all the pages are in order and report any issue to the invigilator immediately.
- Try to attempt the Sections in their respective order.
- Do not get stuck on a particular question for more than 3-4 minutes. Move on to a new question as there are 60 questions to solve.

## SECTION - I [MENTAL APTITUDE]

1.	If 4 <sup>th</sup> J (A)	January 2008 fall Monday	s on Fri <b>(B)</b>	day, what day of Friday	week w	ill fall on 4 <sup>th</sup> Jan Wednesday	uary 200 <b>(D)</b>	09? Sunday
2.	If '+' (A)	means 'x', 'x' m 45	eans ' – ( <b>B</b> )	', '−' means '÷ 48	' and ' ÷ (C)	+' means '+', the 29	en 18÷4 (D)	$ \begin{array}{c} 4+3\times2-2=?\\ 39 \end{array} $
3.	If Lamp A is less bright than Lamp B; Lamp B is brighter than Lamp C; Lamp C is as bright as Lamp D; Lamp B is brighter than Lamp D; Lamp D is brighter than Lamp A; then which lamp is the brightest?							
	(A)	Lamp A	<b>(B)</b>	Lamp B	(C)	Lamp C	(D)	Lamp D
4.	Find t × (A)	he missing figure $\boxed{12}$ : $\boxed{+}$ ?	e (?).	X	(C)	vama Øes	-(D)	198 <sup>6</sup> ⊞
-	10 117				c\2	55		M
5.	If JK (A)	: QR, then: ST : UW	<b>(B</b> )	WX : ZY	(C)	CF:JLND	(D)	BC : IJ
6.	If A is B's brother, B is C's sister and C is D's father, then D is A's:							
	(A)	Brother	<b>(B)</b>	Sister	(C)	Wife	<b>(D)</b>	None of these
7.	Four p	ositions of a dic	e is give	n. The number o	pposite	to 3 is:		
			6 3 1	5 4	5			,
	(A)	2	<b>(B)</b>	3	(C)	4	<b>(D)</b>	6
8.	Which of the following numbers does not fit in the given series? 0, 1, 3, 6, 10, 15, 21, 28, 37, 45							
	(A)	0	<b>(B)</b>	21	(C)	37	<b>(D)</b>	45
9.	In the sequence of numbers 5, 8, 13 X, 34, 55, 89, the value of X is:							
<b>γ</b> .	(A)	29	(B)	23	(C)	21	<b>(D)</b>	20
10.	Which	n one is the same	as Bask	tet, Pail and Pan?				
	(A)	Knife	<b>(B)</b>	Spoon	(C)	Fork	(D)	Bowl



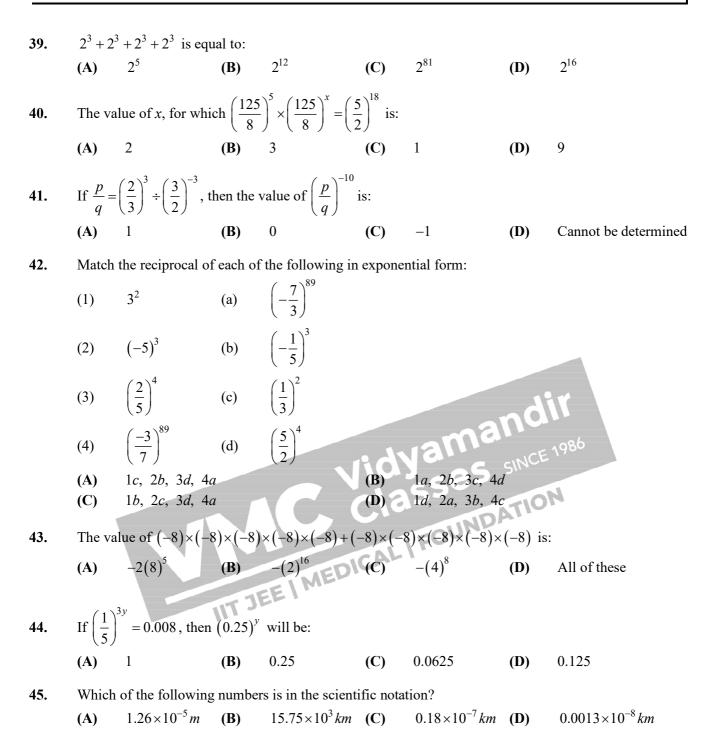


28. A triangle whose lengths of sides are 5 cm, 12 cm and 13 cm. The triangle is:
(A) Obtuse - angled triangle
(B) Acute - angled triangle
(C) Right - angled triangle
(D) Triangle is not formed

**29.** In the given  $\triangle ABC$ , if AB = AC and BD = DC, then  $\angle ADC$  is equal to:

$$\int_{B} \int_{B} \int_{B$$

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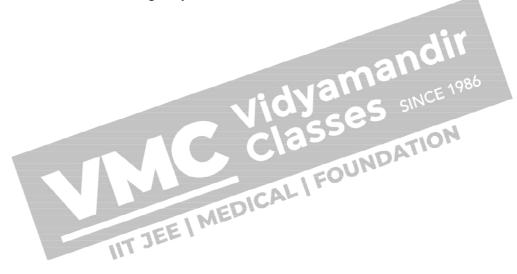
### **SECTION - III [SCIENCE]**

- **46.** If all the parts of green parts of tree are covered with transparent wax. Then pick the wrong statement from the following.
  - (A) The plant will die as it cannot show transpiration
  - (B) Stomata will be closed therefore plant cannot exchange gases
  - (C) Plant will perform photo synthesis as transparent wax is used
  - (D) After some time, plant will die

## 5 Year | Sample Paper

47.	Two p	Two plants are kept in an air tight bell jars. It one of the bell jar (I) place a rat and in the other bell jar									
	(II) pl	ace potassium	hydroxide	e as it absorbs ca	arbon di	oxide and then j	place a r	at. Both the jars	are kept		
	in sun	light for some	time. What	at will happen.							
	(A)	Plant and rat	both will	die in bell jar I							
	<b>(B)</b>	Both will die	e in bell ja	r II							
	(C)	Only plant w	vill die in b	oell jar I							
	(D)	Only rat will		•							
48.	Main	digesting funct	tion of teet	h in our body:							
	(A)	It helps in cu		•							
	<b>(B)</b>		e		es area f	for proper action	of enzy	me			
	(C)	Helps in swa					5				
	(D)	Helps in mas	-								
<ul> <li>48.</li> <li>49.</li> <li>50.</li> <li>51.</li> <li>52.</li> <li>53.</li> <li>54.</li> <li>55.</li> <li>56.</li> <li>57.</li> </ul>	Which	Which among the following is called artificial silk?									
	(A)	Rayon	(B)	Nylon	(C)	Terylene	(D)	Bakelite			
50.	Clinic	al Thermomete	er has a kii	nk at the bottom	of merc	ury tube. What i	s the rea	son behind it:			
	(A)	So that we ca			<b>(B)</b>	It slows down					
<ul><li>50.</li><li>51.</li><li>52.</li><li>53.</li></ul>	(C)	Mercury doe			(D)	So that the mercury falls quickly					
51			viewsihle t		U J	se5 "	al atata	Dialy the area wh	ish is		
51.	•	Physical change is reversible that is it can be reversed back to its original state. Pick the one which is not a physical change.									
	(A)	Melting of w			(B)	Tearing of pa					
	· · ·	Wax in burn			(B) (D)	Melting ice cr					
	(C)	wax iii buiii	ing candie	For its behind the		Wiening ice ci	Calli				
52.	Image	Image formed by the plane mirror is behind the mirror and distance of object and image from the mirror									
	is sam	same if a person initially at a distance of 20 cm from the mirror moves away from one mirror at the									
	rate of	f 5 cm/s. Find t	he distanc	e between imag	e and ob	ject at the end of	f 10 secc	onds:			
	(A)	20 cm	<b>(B)</b>	100 cm	(C)	120 cm	<b>(D)</b>	140 cm			
53.		Person 'A' covers 10 m in 3 seconds and another person 'B' covers 5000 m in 250 seconds. Who moves faster?									
	(A)	A			<b>(B)</b>	В					
	(C)	They both ru	in with sar	ne speed	(D)	None of the o	ption abo	ove is right			
54.	High	BOD (Biologic	al Oxyger	n Demand) show	s that :						
	(A)	Water is poll	luted		<b>(B)</b>	Water is potal	ole				
	(C)	Either (A) or	r (B)		<b>(D)</b>	Neither of the	above				
55.	Increa	sed growth of	algae in a	water body due	to increa	ase in concentrat	ion of ni	trogenous Fertil	izers is		
	also ca	so called:									
	(A)	Bio - magnif	fication		<b>(B)</b>	Eutrophication	n				
	(C)	Bio - accum	ulation		<b>(D)</b>	Bio - concentr	ration				
56.	Animals living in cold region undergoes winter sleep to protect themselves from harsh environment.										
		vinter sleep is a			1	1					
	(A)	Hibernation	<b>(B)</b>	Incubation	(C)	Aestivation	<b>(D)</b>	Incineration			
57.	Out of	Out of the following which is not an adaptation of organisms living in arid condition?									
	(A)	Leaves of ca	ctus conve	erted into spines	<b>(B)</b>	Deep and exte	ensive ro	ot system			
	(C)	Fleshy stem			<b>(D)</b>	Larger canopy	/				

- 58. Which of the following is not advantage of constructing large dams?
  - (A) It can be used for production of electricity
  - (B) It prevents flood
  - (C) It leads to deforestation
  - (D) It helps in distributing water to remote area
- **59.** The movement of alimentary canal to move the food is called:
  - (A) Peristalsis (B) Voluntary movement
  - (C) Arrhythmia (D) Pulmonary
- 60. How does parasite different from saprotrophs, pick the correct options?
  - (A) Parasites have complete alimentary canal and developed digestive system and saprotroph do not have one
  - (B) Parasites absorbs digested nutrient whereas saprotroph digests nutrient outside their body and then picks up
  - (C) Parasites feed on dead and decaying organisms and saprotrophs on living host body
  - (D) Saprotrophs always moves inside the body for its nutrition, but parasites obtain its nutrition's from outside the living body



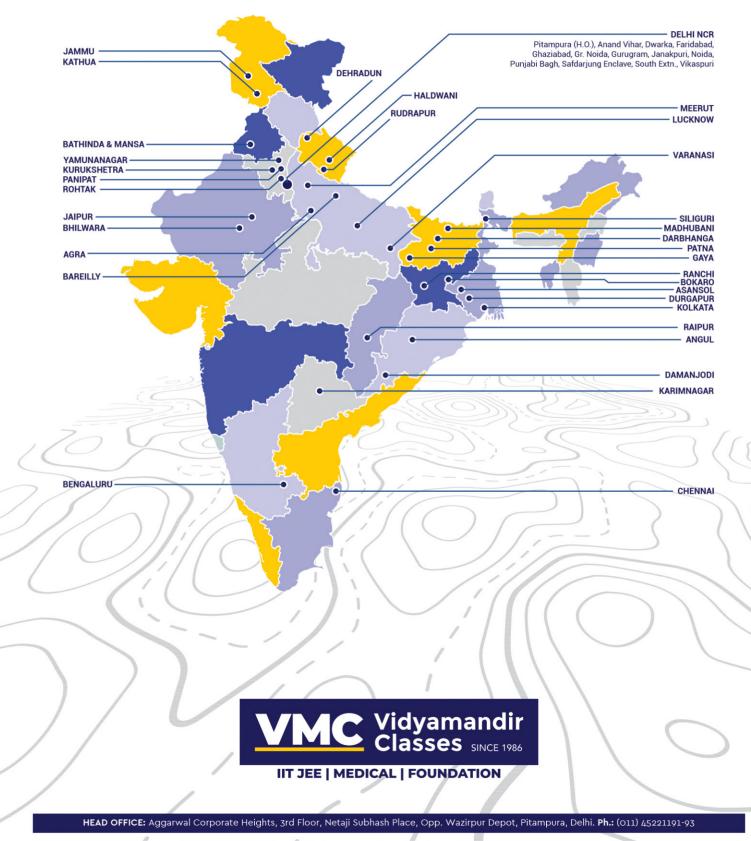
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## Answers to Sample Paper | 5 Year

SECTION - I										
1	2	3	4	5	6	7	8	9	10	
D	С	В	D	D	D	С	С	С	D	
SECTION - II										
11	12	13	14	15	16	17	18	19	20	
С	С	В	D	С	А	C	C C	В	С	
21	22	23	24	25	26	27	5281C	1980 29	30	
В	С	D	U	A	345	у С	4	NC	С	
31	32	33	34	35	36	37	38	39	40	
С	А	A		DPCA	с	С	D	А	С	
		41	42	43	44	45				
		А	А	D	В	А				
SECTION - III										
46	47	48	49	50	51	52	53	54	55	
С	D	В	А	В	С	D	В	А	В	
		56	57	58	59	60				
		А	D	С	А	В				

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