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**SNS College of Technology, Coimbatore-35.**  
**(Autonomous)**  
**B.E/B.Tech Internal Assessment -II**  
**Academic Year 2023-2024 (Even)**  
**Fourth Semester**  
**19GET276 – VQAR II**  
**(Common to all branches)**

<b>B</b>
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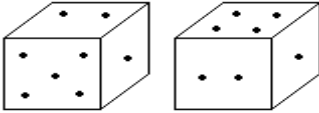
Time: 1<sup>1/2</sup> Hours

Maximum Marks: 50

**Answer All Questions**  
**PART - A (20x 1 = 20Marks)**

1.	What is the probability of getting a sum 9 from two throws of a dice?	
	a) 1/6	b) 1/8
	c) 1/9	d) 1/12
2.	One card is drawn at random from a pack of 52 cards. What is the probability that the card drawn is a face card (Jack, Queen and King only)?	
	a) 1/13	b) 3/13
	c) 1/4	d) 9/52
3.	Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?	
	a) 1/2	b) 2/5
	c) 8/15	d) 9/20
4.	A card is drawn from a pack of 52 cards. The probability of getting a queen of club or a king of heart is:	
	a) 1/13	b) 2/13
	c) 1/26	d) 1/52
5.	Two dice are tossed. The probability that the total score is a prime number is:	
	a) 1/6	b) 5/12
	c) 1/2	d) 7/9
6.	A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is:	
	a) 1/22	b) 3/22
	c) 2/91	d) 2/77
7.	Input: 56 apple 85 zigbee 12 ball What is the output?	
	a) 85 apple 56 ball 12 zigbee	b) 85 apple 56 ball 12 zigbee
	c) 85 56 12 apple ball zigbee	d) 85 56 12 apple ball zigbee
8.	In which year was Rahul born? Statements: I. Rahul at present is 25 years younger to his mother. II. Rahul's brother, who was born in 1964, is 35 years younger to his mother.	

	a) I alone is sufficient while II alone is not sufficient	b) II alone is sufficient while I alone is not sufficient
	c) Either I or II is sufficient	d) Both I and II are sufficient
9.	<p>Statements: Some actors are singers. All the singers are dancers.</p> <p>Conclusions:</p> <p>1. Some actors are dancers.</p> <p>2. No singer is actor.</p>	
	a) Only (1) conclusion follows	b) Only (2) conclusion follows
	c) Either (1) or (2) follows	d) Neither (1) nor (2) follows
10.	<p>Statements:</p> <p>I Standard of living among the middle class society is constantly going up since part of few years.</p> <p>II Indian Economy is observing remarkable growth.</p>	
	a) Statement I is the cause and statement II is its effect.	b) Statement II is the cause and statement I is its effect.
	c) Both the statements I and II are independent causes.	d) Both the statements I and II are effects of independent causes.
11.	<p>Statements: All the harmoniums are instruments. All the instruments are flutes.</p> <p>Conclusions:</p> <p>1. All the flutes are instruments.</p> <p>2. All the harmoniums are flutes.</p>	
	a) Only (1) conclusion follows	b) Only (2) conclusion follows
	c) Either (1) or (2) follows	d) Neither (1) nor (2) follows
12.	<p>Statements: I. Importance of Yoga and exercise is being realized by all sections of the society.</p> <p>II. There is an increasing awareness about health in the society particularly among middle ages group of people.</p>	
	a) Statement I is the cause and statement II is its effect.	b) Statement II is the cause and statement I is its effect.
	c) Both the statements I and II are independent causes.	d) Both the statements I and II are effects of independent causes.
13.	<p>Statement: Anger is energy, in a more proactive way and how to channelize it is in itself a skill.</p> <p>Assumptions:</p> <p>I. Anger needs to be channelized.</p> <p>II. Only skillful people can channelize anger to energy.</p>	
	a) If only assumption I is implicit.	b) If only assumption II is implicit.
	c) If either I or II is implicit	d) If neither I nor II is implicit
14.	<p>The cause of corruption in medical education is shortage of seats, and fewer doctors than required for the population and even fewer specialists.</p> <p>Which of the following can be inferred from the above?</p>	
	a) Students pay bribes to the management of institutions to avail seats.	b) The criteria to select students to fill medical seats are flexible
	c) There is a set standard regarding the doctors to population ratio	d) Most of the doctors are general physicians

15.	Statement: "Enjoy your challenges" - an advertisement of a car brand. Assumptions: I. People wish to enjoy challenges. II. There are people who are willing to buy a car.	
	a) If only assumption I is implicit.	b) If only assumption II is implicit.
	c) If either I or II is implicit.	d) If neither I nor II is implicit.
16.	1. Milky way 2. Sun 3. Moon 4. Earth 5. Stars	
	a) 4,3,2,5,1	b) 3,4,2,5,1
	c) 2,3,4,5,1	d) 1,4,3,2,5
17.	If the dice (I), (II) and (III) have even number of dots on their bottom faces, then what would be the total number of dots on their top faces?	
	a) 7	b) 11
	c) 12	d) 14
18.	Two positions of dice are shown below. How many points will appear on the opposite to the face containing 5 points? 	
	a) 3	b) 1
	c) 2	d) 4
19.	1.Site 2. Plan 3. Rent 4. Money 5. Building	
	a) 4,1,2,5,3	b) 3,4,2,5,1
	c) 2,3,5,1,4	d) 1,2,3,5,4
20.	If the odd numbered dice have even number of dots on their top faces, then what would be the total number of dots on the top faces of their dice?	
	a) 8	b) 10
	c) 12	d) 14

**PART - B (15 x 2 = 30 Marks)**

21.	Input: Tank 15 35 Sweet 39 26 Ignite Brush Assumption Kite 80 60 What is the output?	
	a) 80 Assumption 60 Brush 49 Ignite 39 Kite 35 Sweet 26 Tank 15	b) 80 Assumption 60 Brush 49 Ignite 39 Kite 35 Sweet 26 Tank 15
	c) 35 Sweet 26 Tank 15 80 Assumption 60 Brush	d) 35 Sweet 26 Tank 15 80 Assumption 60 Brush
22.	Question: What will be the total weight of 10 poles, each of the same weight? Statements: I. One-fourth of the weight of each pole is 5 kg. II. The total weight of three poles is 20 kilograms more than the total weight of two poles.	
	a) I alone is sufficient while II alone is not sufficient	b) II alone is sufficient while I alone is not sufficient
	c) Either I or II is sufficient	d) Neither I nor II is sufficient

23.	Statement: All green are blue & All blue are white. Conclusions: 1. Some blue are green. 2. Some white are green. 3. Some green are not white. 4. All white are blue.	
	a) Only (1) and (2)	b) Only (1) and (3)
	c) Only (1) and (4)	d) Only (2) and (4)
24.	Statement: No door is dog & All the dogs are cats. Conclusions: 1. No door is cat. 2. No cat is door. 3. Some cats are dogs. 4. All the cats are dogs.	
	a) Only (2) and (4)	b) Only (1) and (3)
	c) Only (3) and (4)	d) Only (3)
25.	Statement: Should Indian scientists working abroad be called back to India? Arguments: I. Yes, they must serve the motherland first and forget about discoveries, honors, facilities and all. II. No, we have enough talent, let them stay where they want.	
	a) If only argument I is strong	b) If only argument II is strong
	c) If either I or II is strong	d) If neither I nor II is strong
26.	In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?	
	a) 1/10	b) 2/5
	c) 2/7	d) 5/7
27.	From a pack of 52 cards, two cards are drawn together at random. What is the probability of both the cards being kings?	
	a) 1/15	b) 25/57
	c) 35/256	d) 8/221
28.	Question: Among T, V, B, E and C, who is the third from the top when arranged in the descending order of their weights? Statements: I. B is heavier than T and C and is less heavier than V who is not the heaviest. II. C is heavier than only T.	
	a) I alone is sufficient while II alone is not sufficient	b) II alone is sufficient while I alone is not sufficient
	c) Either I or II is sufficient	d) Neither I nor II is sufficient 4 hours
29.	Statement: Population increase coupled with depleting resources is going to be the scenario of many developing countries in days to come. Conclusions: I. The population of developing countries will not continue to increase in future. II. It will be very difficult for the governments of developing countries to provide decent quality of life.	
	a) If only conclusion I follows	b) If only conclusion II follows
	c) If either I or II follows	d) If neither I nor II follows

30.	Question: How many students in a class play football? Statements: Only boys play football. There are forty boys and thirty girls in the class.	
	a) I alone is sufficient while II alone is not sufficient	b) II alone is sufficient while I alone is not sufficient
	c) Either I or II is sufficient	d) Neither I nor II is sufficient
31.	Statement: The 'M' state government has decided hence forth to award the road construction contracts through open tenders only. Courses of action: I. The 'M' state will not be able to get the work done swiftly as it will have to go through tender and other procedures. II. Hence forth the quality of roads constructed may be far better.	
	a) If only I follows	b) If only II follows
	c) If either I or II follows	d) If neither I nor II follows
32.	Statement: Should vacations of court judges be reduced? Arguments: I. Yes, it will speed up judicial process and many people are likely to get justice in reasonable time. II. Yes, it is a sign of British legacy, why should we carry it further?	
	a) If only argument I is strong	b) If only argument II is strong
	c) If either I or II is strong	d) If neither I nor II is strong
33.	Statement: Should Indian scientists working abroad be called back to India? Arguments: I. Yes, they must serve the motherland first and forget about discoveries, honors, facilities and all. II. No, we have enough talent, let them stay where they want.	
	a) If only argument I is strong	b) If only argument II is strong
	c) If either I or II is strong	d) If neither I nor II is strong
34.	Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even?	
	a) $\frac{1}{2}$	b) $\frac{3}{4}$
	c) $\frac{3}{8}$	d) $\frac{5}{16}$
35.	In a class, there are 15 boys and 10 girls. Three students are selected at random. The probability that 1 girl and 2 boys are selected, is:	
	a) $\frac{21}{46}$	b) $\frac{25}{117}$
	c) $\frac{1}{50}$	d) $\frac{3}{25}$