EE24BTECH11010 - BALAJI B

1) In the above system the three-phase fault MVA at the bus 3 is

(2011-EE)

1

a) 82.55MVA

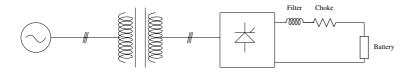
c) 170.91*MVA*

b) 85.11*MVA*

d) 181.82MVA

Statement for Linked Answer Questions 2 and 3

A solar energy installation utilize a three-phase bridge converter to feed energy into power system through a transformer of 400V/400V as shown below. The energy is collected in a bank of 400V battery and is connected to converter through a large filter choke of resistance 10Ω



2) The maximum current through the battery will be

(2011-EE)

a) 14A

c) 80A

b) 40A

d) 94A

3) The kVA rating of the input transformer is

(2011-EE)

a) 53.2*kVA*

c) 22.6kVA

b) 46.0kVA

d) None

General Aptitude (GA) Questions

4) Choose the most appropriate word from the options given below to complete the following sentence:

Under ethical guidelines recently adopted by the Indian Medical Association, human genes are to be manipulated only to correct diseases for which ______ treatments are unsatisfactory. (2011-EE)

a) similar

c) uncommon

b) most

d) available

5) The question below consists of a pair of related words followed by four pairs of words. Select the pair that best expresses the relation in the original pair:

Gladiator: Arena (2011-EE)

	b) commuter : train		d) lawyer : courtro	om
6)	There are two candidates P and Q in an election. During the campaign, 40% of t voters promised to vote for P , and rest for Q . However, on the day of election 15 of the voters went back on their promise to vote for P and instead voted for 25% of the voters went back on their promise to vote for Q and instead voted for P . Suppose, P lost by 2 votes, then what was the total number of voters? (2011-E			
	a) 100	b) 110	c) 90	d) 95
7)	the following sentential to was her view	ence: that the country's p		by foreign bunter-productive. (2011-EE)
	a) identifiedb) ascertained		c) exacerbated d) analysed	
8)	Choose the word meaning to the give Frequency		ven below that is m	nost nearly opposite in (2011-EE)
	a) periodicityb) rarity		c) gradualnessd) persistency	
9)	four to the bowl. S took half of the ren	took $\frac{1}{4}^{th}$ of what was	left but returned thre 2 back. If the had 17	the toffees, but returned the toffees to the bowl. Toffees left, how many (2011-EE)
	a) 38	b) 31	c) 48	d) 41

10) The fuel consumed by a motorcycle during a journey while travelling at various

speeds is indicated in the graph below.

c) teacher: classroom

a) dancer : stage

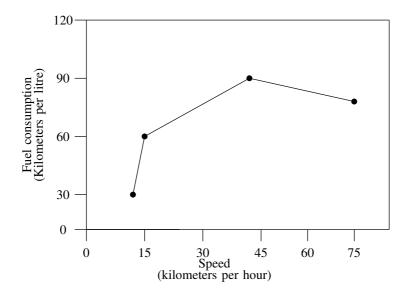


Fig. 10.1

The distances covered during four laps of the journey are listed in the table below.

LAP	Distance (kilometres)	Average Speed (kilometres per hour)
P	15	15
Q	75	45
R	40	75
S	10	10

From the given data, we can conclude that the fuel consumed per kilometre was least during the lap (2011-EE)

a) P b) Q c) R d) S

11) The horse has played a little known but very important role in the field of medicine. Horses were injected with toxins of diseases until their blood built p immunities. Then a serum was made from their blood. Serums to fight with diphtheria and tetanus were developed this way. It can be inferred from the passage that horses were

(2011-EE)

- a) given immunity to diseases
- b) generally quite immune to diseases
- c) given medicines to fight toxins
- d) given diphtheria and tetanus serums

12) The sum of n terms of the series 4 + 44 + 444 + ... is (2011-EE)

a)
$$\frac{4}{81} \begin{bmatrix} 10^{n+1} - 9n - 1 \\ 10^{n-1} - 9n - 1 \end{bmatrix}$$

c)
$$\frac{4}{81} \left[10^{n+1} - 9n - 10 \right]$$

d) $\frac{4}{81} \left[10^n - 9n - 10 \right]$

- 13) Given that $f(y) = \frac{|y|}{y}$ and q is any non-zero real number, the value of |f(q) f(-q)| is (2011-EE)
 - a) 0

b) -1

c) 1

d) 2