

IMPORTANT RESOLUTION

The Admission committee for GCET-2007 in its meeting of 16th June 2007 has resolved following about the *time, nature and contents* of the Entrance Test for MCA.

1. The test time(actual) was decided to be **180 min** i.e. 3 hrs. for writing actual test.
2. Numbers of objective type questions will be **250** & each question will be **with 4 alternative** answers.
3. There will be **four** sets of question paper (**A,B,C,D**).
4. For MCA-Aspects to be covered in the test:

Quantitative Ability; Analytical and Logical Reasoning; Language Ability; Mathematics / Business Mathematics / Statistics upto 12th Standard of Gujarat HSC Board level.

GCET-2007

SAMPLE QUESTIONS - MCA

Q.No.:1-2

There are four tellers-A,B,C,D working at the bank, which is open from Monday through Friday. Each teller works according to the following rules:

On Mondays, only A or B works.

On Tuesdays, B works alone or with one of the other tellers, but not A.

On Wednesdays, C works alone or with one of other tellers.

On Thursday, two tellers work together, but B is not one of them.

On Fridays, three tellers work together.

1. B must work on which of the following days?
 - A) Monday
 - B) Tuesday
 - C) Wednesday
 - D) Thursday

2. If we know that D is working on a particular day but don't know whether anyone else is working, that day could be all of the following EXCEPT
 - A) Monday
 - B) Tuesday
 - C) Wednesday
 - D) Thursday

3. Neither archaeologists nor historians have found any written texts in the Hebrew language dating from before the tenth century B.C. This means that the story of the Israelites' exodus from Egypt as recorded in the Old Testament, which occurred before that date, must have been originally preserved not as a written text but by means of oral tradition.

All of the following are valid objections to the argument above EXCEPT

 - A) The story of the exodus may have been originally written down in a language other than Hebrew.
 - B) Texts composed in an earlier form of Hebrew may have been found but not recognized as such.
 - C) Texts in Hebrew from the tenth century B.C. may exist without having come to the attention of historians or archaeologists.
 - D) Oral tradition is not as reliable a means of preserving stories of the past as written accounts.

4. Although we may be exposed to all the various types of music-classical , folk, jazz, rock and country over the course of a lifetime, the type of music we loved as adolescents will always be our favorite. Which of the following, if true, would most seriously weaken the argument above?
 - A) Some people who are exposed to folk music only late in life learn to enjoy it.
 - B) Some people who love rock as adolescents come to prefer classical music later in life.
 - C) Those who enjoy country music as adolescents always favour it over other types of music.
 - D) Some people who are exposed to classical music as adolescents never learn to enjoy it.

5. $n^3 - n$ is divisible by
 A) 6 C) 5
 B) 13 D) 2
6. Which of the following function is an odd function?
 A) $f(x) = \text{constant}$
 B) $f(x) = \sin x + \cos x$
 C) $f(x) = \sin(\log(x + \sqrt{x^2 + 1}))$
 D) $f(x) = 1 + x + 2x^2$
7. The equation of the straight line passing through (1,2) and perpendicular to $x + y + 1 = 0$ is
 A) $x - y + 1 = 0$ C) $x - y + 2 = 0$
 B) $x - y - 1 = 0$ D) $x - y - 2 = 0$
8. If a, b, c are in A.P., $b - a, c - b$ and a are in G.P., then $a : b : c$ is
 A) 1:2:3 C) 2:3:4
 B) 1:3:5 D) 1:2:4

Q.No.:9-11

Pick up one answer choice to fill the blank in each of the following sentences:

9. This flower _____.
 A) smell sweetly C) smells sweetly
 B) smell sweet D) smells sweet
10. _____ is the national bird of India.
 A) Peacock C) The peacock
 B) A peacock D) An peacock
11. He is working under such _____ conditions that it is difficult to maintain self-respect.
 A) low C) difficult
 B) inimical D) humiliating
12. Pick up synonyms from the answer choices for the word AGONY.
 A) harm C) disease
 B) pain D) happy
13. A train 120 metres long, traveling at 45 kms/hr, overtakes another train traveling in the same direction at 36 kms/hr and passes it completely in 80 seconds. The length of the second train is
 A) 100 metres C) 80 metres
 B) 75 metres D) 120 metres

14. If A can run a kilometer in $3\frac{1}{6}$ minutes and B in $3\frac{1}{3}$ minutes, by what distance can A beat B?
 A) 100 metres C) 60 metres
 B) 75 metres D) 50 metres
15. The ratio between the ages of Amar and Kabir at present is 2:3. After three years, the ratio of their ages will be 3:4. Find the present age of Amar in years.
 A) 6 C) 15
 B) 9 D) Data insufficient
16. A scooter covers a distance of 200 km in 2 hr 40 minutes, while a motorcycle covers the same distance in 2 hours. What is the ratio of their speeds?
 A) 4:3 C) 4:5
 B) 5:4 D) 3:4
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KEY OF SAMPLE QUESTIONS

QUESTIONS NO.	KEY	QUESTIONS NO.	KEY
1	B	9	D
2	A	10	A
3	D	11	D
4	B	12	B
5	A	13	C
6	C	14	D
7	B	15	A
8	A	16	B