ST. ANTHONY'S COLLEGE, SHILLONG

ENTRANCE TEST FOR ADMISSION INTO GRADUATE PROFESSIONAL COURSES 2007

Business Administration
Part A

DATE	:	**10 May 2007**
TIME	:	**12:00 noon**
DURATION	:	**1½ hours**

INSTRUCTIONS

☞ This test has two parts. Part A and Part B.

☞ Part A is to be answered on the answer sheet provided to you and must be returned back at the conclusion of this test. This Part will have Two modules with a total of 30 questions. Each correct answer carries a weightage of 1 mark while a wrong answer carries a penalty of – 0.25 of the total mark allotted for that question.

☞ Part B has Three Modules with a total of 22 questions. Each correct and complete answer carries a weightage of 2 Marks for module I and II. Module III questions carries a weightage of 10 marks. Question 22 of Module III is Compulsory. There will be NO NEGATIVE marking in Part B.

☞ Write the Roll Number given on your Admit Card on the space provided in the answer sheet and question paper itself.

☞ The required rough work may be done on the space provided at the bottom of each page and also at the end of this question paper.

☞ Please preserve your admit cards. They will be required at the time of admission.

☞ The admit card numbers of those shortlisted for admission on the basis of this entrance test will be published on the college notice boards and on the college web site on 16 May, 2007. The final admission will be done on a first come, first served basis, after the marksheets of the Class XII examinations of the Meghalaya Board of School Education are available, provided the eligibility criteria as laid down in the prospectus are fulfilled.

(To be answered on the ANSWER SHEET for objective questions)

Module 1 : Verbal Ability and English Comprehension

Directions for questions 1 – 7: Choose the right combination of words from the given list that will be most appropriate for filling in the blank space(s).

1. A computer program can provide information in ways that force students to _____ learning instead of being merely _____ of knowledge.
    a) shore up .. reservoirs
    b) accede to .. consumers
    c) participate in .. recipients
    d) compensate for.. custodians

2. The form and physiology of leaves vary according to the _____ in which they develop: for example, leaves display a wide range of adaptations to different degrees of light and moisture.
    a) relationship
    b) species
    c) environment
    d) sequence

3. One theory about intelligence sees _____ as the logical structure underlying thinking and insists that since animals are mute, they must be _____ as well.
    a) behavior.. inactive
    b) instinct.. cooperative
    c) adaptation.. brutal
    d) language.. mindless

4. Though _____ in her personal life, Edna St. Vincent Millay was nonetheless _____ about her work, usually producing several pages of complicated rhyme in a day.
    a) jaded.. feckless
    b) verbose.. ascetic
    c) vain.. humble
    d) impulsive.. disciplined

5. The children's _____ natures were in sharp contrast to the even-tempered dispositions of their parents.
    a) mercurial
    b) blithe
    c) phlegmatic
    d) introverted

6. Since most if not all learning occurs through _____, relating one observation to another, it would be strange indeed if the study of other cultures did not also illuminate the study of our own.
    a) assumptions
    b) experiments
    c) comparisons
    d) repetitions

7. The President reached a decision only after lengthy _____, painstakingly weighing the _____ opinions expressed by cabinet members.
    a) deliberation.. divergent
    b) confrontation.. unanimous
    c) relegation.. consistent
    d) canvassing.. arbitrary

Directions for question 8 – 12: Select the pair of words that show the closest terms of relationship as that of the given pair.

8. TRIPOD: CAMERA::
    a) scaffolding: ceiling
    b) prop: set
    c) easel: canvas
    d) projector: film

9. AQUATIC: WATER::
    a) cumulus: clouds
    b) inorganic: elements
    c) variegated: leaves
    d) rural: soil

10. IMMATURE: DEVELOPED::
    a) accessible: exposed
    b) incipient: realized
    c) tangible: identified
    d) irregular: classified

11. PLAYFUL: BANTER::
    a) animated: originality
    b) exaggerated: hyperbole
    c) insidious: effrontery
    d) pompous: irrationality

12. ROSTRUM: ORATOR::
    a) stage: audience
    b) bench: judge
    c) shelf: clerk
    d) crosswalk: pedestrian

Direction for questions 13 – 17: Select the word which is opposite in meaning to the given word.

13. PREOCCUPATION:
    a) finality
    b) innocence
    c) liberality
    d) unconcern

14. MUTATE:
    a) remain the same
    b) grow larger
    c) link together
    d) recede

15. FRAGMENT:
a) ensue
b) accommodate
c) coalesce
d) balance

16. PROBITY:
a) timidity
b) sagacity
c) unscrupulousness
d) uncertainty

17. ESCHEW:
a) take without authorization
b) habitually indulge in
c) leave unsaid
d) handle carefully

Directions for questions 18 - 21: Answer questions 18-21 by referring to the following passage

Passage

Experiments show that insects can function as pollinators of cycads - rare, palmlike tropical plants. Furthermore, cycads removed from their native habitats— and therefore from insects native to those habitats— are usually infertile. Nevertheless, anecdotal reports of wind pollination in cycads cannot be ignored. The structure of cycads male cones is quite consistent with the wind dispersal of pollen, clouds of which are released from some of the larger cones. The male cone of *Cycas circinalis*, for example, sheds almost 100 cubic centimeters of pollen, most of which is probably dispersed by wind. Still, many male cycad cones are comparatively small and thus produce far less pollen. Furthermore, the structure of most female cycad cones seems inconsistent with direct pollination by wind. Only in the Cycas genus are the females' ovules accessible to airborne pollen, since only in this genus are the ovules surrounded by a loose aggregation of megasporophylls rather than by a tight cone.
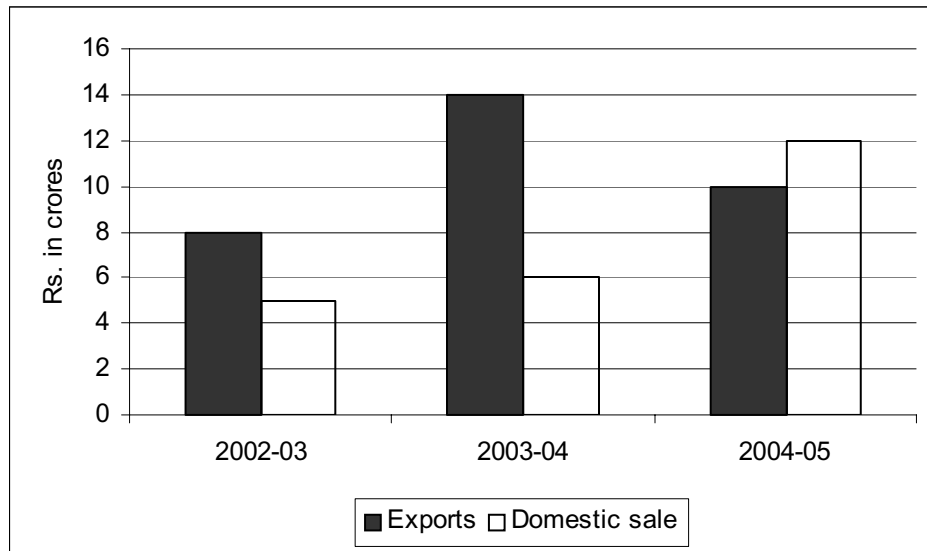
18. According to the passage, the size of a male cycad cone directly influences which of the following?
a) The arrangement of the male cone's structural elements
b) The degree to which the ovules of female cycads are accessible to airborne pollen
c) The male cone's attractiveness to potential insect pollinators
d) The amount of pollen produced by the male cone

19. The passage suggests that which of the following is true of the structure of cycad cones?
a) The structure of cycad cones provides conclusive evidence in favor of one particular explanation of cycad pollination.
b) The structure of cycad cones provides evidence concerning what triggers the first step in the
c) pollination process.
d) An irresolvable discrepancy exists between what the structure of most male cycad cones suggests about cycad pollination and what the structure of most female cones suggests about that process.

20. The evidence in favor of insect pollination of cycads presented in the passage would be more convincing if which of the following were also true?
a) Only a small variety of cycad species can be successfully transplanted.
b) Cycads can sometimes be pollinated by means other than wind or insects.
c) Winds in the areas to which cycads are usually transplanted are similar to winds in cycads' native habitats.
d) The transplantation of cycads from one region to another usually involves the accidental removal and introduction of insects as well.

21. The passage suggests that which of the following is true of scientific investigations of cycad pollination?
a) They have not yet produced any systematic evidence of wind pollination in cycads.
b) They have so far confirmed anecdotal reports concerning the wind pollination of cycads.
c) They have, until recently, produced little evidence in favor of insect pollination in cycads.
d) They have usually concentrated on describing the physical characteristics of the cycad reproductive system.

Directions for questions 22 - 24: Each of these questions has a part of it underlined. The question is followed by four alternatives to replace the underlined part of the sentence. Choose the best alternative which is grammatically correct.

22. In this particular job we have discovered that to be diligent is more important than being bright.
a) by being diligent is important than being bright.
b) being diligent is more important than being bright.
c) diligence is more important than brightness.
d) for one to be diligent is more important than being bright.

23. No one but him could have told them that the king was I.
a) he could have told them that the king was me.
b) him could have told them the king was me.
c) he could have told them that the king was I.
d) him could have told them that the king was I.

24. If she were I, she would have accepted the prize had she won it.
   a) was I, she would have accepted the prize if she had won it.
   b) was I, she would have accepted the prize she had won.
   c) were I, she would have accepted the prize if she would have won it.
   d) were I, she would have accepted the prize had she won it.

Directions for questions 25 - 27: The bar graph below shows the turnover (total sales) of the company over various financial years. Answer the following questions based on this graph:
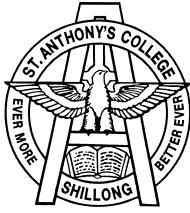

25. The financial year in which the turnover from exports is less than the turnover from domestic sale is:
   a) 2002-03   b) 2003-04   c) 2004-05   d) none of these

26. The ratio of exports: domestic sales in financial year 2002-03 is:
   a) 5 : 8   b) 9 : 5   c) 7 : 5   d) 8 : 5

27. Exports contribute what percentage of the total turnover in all the years:
   a) 55.56%   b) 58%   c) 53%   d) 60%

28. In the financial year 2002-03 and 2003-04, domestic sale accounts for what percentage of exports?
   a) 45%   b) 50%   c) 100%   d) 65%

Directions for questions 28 - 30: The following table shows the production of different types of two-wheelers fro 1999 to 2004. Study the table carefully and answer the questions. (No. of two wheelers given in thousands)

Type	1999	2000	2001	2002	2003	2004
A	108	102	120	105	112	120
B	60	66	75	69	58	54
C	42	66	48	75	87	105
D	180	186	202	225	228	240
E	120	135	144	150	240	315
F	135	156	165	180	172	168
Total	645	711	754	804	897	1002

29. In which year was the total production of A and D together equal to the production of E and F together?
   a) 2003   b) 1999   c) 2000   d) 2002

30. In which year was the total production of all types of two wheelers taken together closest to the approximate average of the total production of two wheelers during the given period?
   a) 2002   b) 2003   c) 2001   d) 2004

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ENTRANCE TEST FOR ADMISSION INTO GRADUATE PROFESSIONAL COURSES 2007

Business Administration
Part B

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DURATION	:	**1 ½ hours**

INSTRUCTIONS

☞ This test has two parts. Part A and Part B.

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☞ Part B has Three Modules with a total of 22 questions. Each correct and complete answer carries a weightage of 2 Marks for module I and II. Module III questions carries a weightage of 10 marks. Question 22 of Module III is Compulsory. There will be NO NEGATIVE marking in Part B.

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Module – 1 : Numerical Ability

Directions for questions 1 – 15: There are 15 questions in this module. Each question has to be solved in the space allocated for that question. Choosing any alternative without showing the steps required for arriving at a solution is equivalent to a wrong answer. Each correct answer carries 2 Marks.

1. There are 35 students in a hostel. Due to the admission of 7 more students, the expenses of the mess increased by Rs. 42 per day, but the average expenditure per student decreases by Rs. 100. Find the total original expenditure of the mess?
    a) 320   b)   420   c) 428   d) 432

2. The average weight of three persons is 63 kg. If the average weight of first and second is 80 and that of second and third is 48, then the weight of second person is
    a)   56   b) 43   c) 67   d) 57

3. If 24 men working 9 hours a day can complete a work in 8 days. Then in how many days can 54 men working 8 hours a day complete the work.
    a)   4   b) 6   c) 3   d) 9

SPACE FOR ROUGH WORK

4. Out of an inheritance of Rs. 17,500, Anil invested 45% in land, 25% in National Savings Certificates, and put the rest into a bank. How much did he put in the bank?
   a) Rs. 5250   b) Rs. 5200   c) Rs. 5150   d) Rs. 5300

5. A vendor sells 10 oranges for a Rupee gaining thereby 40%. How many oranges did he buy for a rupee?
   a) 10   b) 12   c) 14   d) 16

6. The difference between the compound interest and simple interest on a sum of money for 2 years at 12½% per annum is Rs.150. The sum is
   a) Rs. 9000   b) Rs. 9200   c) Rs. 9500   d) Rs. 9600

7. The HCF and LCM of two numbers are 44 and 264 respectively. If the first number is divided by 2, the quotient is 44. The other number is
   a) 66   b) 132   c) 264   d) 33

SPACE FOR ROUGH WORK

8. The ratio of two numbers is 3:8 and their difference is 115. What is the larger number?
   a) 69   b) 115   c) 184   d) 230

9. Arun's average rate for a round trip is 48 km/hr. One way, he travels @ 40 km/hr. His speed, on his return over the same route is
   a) 56 km/hr   b) 60 km/hr   c) 48 km/hr   d) 58 km/hr

10. If $3^a + 2^b = 31$ and $3^{a+1} - 2^{b+4} = 15$, what are the values of a and b?
   a) (2,3)   b) (4,1)   c) (3,3)   d) cannot be determined

11. If $\dfrac{x-1}{x} = a$ then what will be the value of $\dfrac{x^3 - 1}{x^3}$?
   a) $a^2 + 2a$ b) $a^3 + 3a$ c) $a^3 + 2a^2$ d) $a^3 + 2a$

SPACE FOR ROUGH WORK

12. Two oranges, three bananas and four apples cost Rs.15. Three oranges, two bananas and one apple cost Rs.10. I bought 3 oranges, 3 bananas and 3 apples. How much did I pay?
    a) Rs 10   b) Rs. 8   c) Rs. 15   d) Cannot be determined

13. A certain machine drills 30 holes in 8 minutes. At that constant rate, how many holes will 4 such machines drill in 1 1/3 hours?
    a) 300   b) 900   c) 960   d) 1,200

14. $(2^{10} - 2^9)(2^8 - 2^7) =$
    a) 2^2 b) 2^4 c) 2^8 d) 2^{16}

15. A man spends 80% of his income. His income is increased by 25% and he increased his expenditure by 10%, then his savings would increase by?
    a) 62%   b) 60%   c) 58%   d) 55%

SPACE FOR ROUGH WORK

Module – II : Logical Reasoning

Directions for questions 16 – 20: Study the following information carefully and answer the questions given below. (Use the space after the instructions for working out your solution).

- Seven persons A, B, C, D, E, F and G are teaching seven subjects History, Geography, Physics, Chemistry, Maths, Biology and English from Monday to Friday. Each person teaches a different subject and not more than two subjects are taught on any one of the days.
- Chemistry is taught by B on Tuesday.
- D teaches on Friday but neither Geography nor Physics.
- F teaches History but neither on Thursday nor on Friday.
- A teaches English on the day on which History is taught.
- C teaches Maths on Monday.
- Geography and Chemistry are taught on the same day.
- G teaches on Thursday.

16. English is taught on which day?
    ☐ Wednesday   ☐ Monday   ☐ Tuesday   ☐ None of these.

17. Which of the following subjects is taught by G?
    ☐ Biology   ☐ Geography   ☐ Physics   ☐ Chemistry

18. Geography is taught on which day?
    ☐ Monday   ☐ Tuesday   ☐ Wednesday   ☐ Thursday

8. Which subject is taught on Friday?
    ☐ Physics   ☐ History   ☐ Geography   ☐ Biology

9. Which of the following pairs of persons teaches on Tuesday?
    ☐ B and D   ☐ A and B   ☐ B and F   ☐ B and E

Module – III : English Ability & Application

10. Give the Précis of the following passage in the space provided below: 10

Although the hormone adrenaline is known to regulate memory storage, it does not pass from the blood into brain cells. We are faced with an apparent paradox: how can a hormone that does not act directly on the brain have such a large effect on brain function?

Recently, we tested the possibility that one of the hormone's actions outside the brain might be responsible. Since one consequence of adrenaline release in an animal is an increase in blood glucose levels, we examined the effects of glucose on memory in rats. We found that glucose injected immediately after training enhances memory tested the next day. Additional evidence was provided by negative findings: drugs called adrenergic antagonists, which block peripheral adrenaline receptors, disrupted adrenaline's ability to regulate memory but did not affect memory enhancements produced by glucose that was not stimulated by adrenaline. These

results are as they should be if adrenaline affects memory modulation by increasing blood glucose levels.

Direction for question 22: Answer the following using your own words and experiences. This is a COMPULSORY question.   10

22.   The saying *Honesty is the best policy* seems out of place in a world where money buys almost everything. Comment on this statement in not more than 150 words.   10