BEACONHOUSE NATIONAL UNIVERSITY
SCHOOL OF BUSINESS
DEPARTMENT OF ECONOMICS
ADMISSION TEST – SPRING 2024

Program: BS. (Hons.) Economics   **Date: 28th December 2023**
Time Allowed: 1 hour 30 minutes   **Total Marks: 70**

Name of Candidate: _____

Father's Name: _____

Email Address: _____

Contact   Number: _____

Form Number: _____

Grades in A-Levels/Marks in Intermediate: _____

Candidates Signature: _____

INSTRUCTIONS

1. The objective section on Mathematics and English has 20 MCQs while Economics/General Knowledge has 10 MCQs. Each MCQ is worth 1 mark. The subjective section will judge candidates on their writing skills and is of 20 marks. Test has 11 pages. Make sure no page is missing.
2. Only Scientific Calculators are allowed. Use of any digital/data storage device (e.g., financial calculators, mobile phones, smart watches etc.) is strictly prohibited.
3. Borrowing and lending of any sort is not allowed during test.
4. Candidates are required to mark their answers in the answer grid provided. Any questions marked/solved outside the answer grid will not guarantee any credit.
5. Cutting or overwriting is not allowed and will have zero credit.
6. Mobile/cell phones are not allowed inside the examination room.
7. Use of unfair means during test will lead to disqualification of candidate from the admission in BS. (Hons.) program.

Invigilator's Signature: _____

Date: _____

Beaconhouse National University

13 KM Off Raiwind Road, Near Jati Umrah Road, Lahore 54400, Pakistan
Tel: +92-42-35324318 URL: www.bnu.edu.pk Email: info@bnu.edu.pk

Objective Section's Answer Grid.
Color the box of your choice with pen/pencil. Do not cut or over-write.

Section I				
Q.no	A	B	C	D
1				
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Section II				
Q.no	A	B	C	D
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Section III				
Q.no	A	B	C	D
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9				
10				

Section I: Mathematics

1. Which of the following statements is true?
   A) -25 > -24
   B) -48 > 16
   C) -22 > 19
   D) -37 > -62

2. Lindsay grows only roses and tulips in her garden. The ratio of roses to tulips in her garden is 5:6. If there are 242 total flowers in her garden, how many of them are tulips?
   A) 40
   B) 110
   C) 121
   D) 132

3. When x = –3, the expression $–2x^2 + 3x – 7 =$
   A) –34.
   B) –27.
   C) –16.
   D) –10.

4. A store prices a coat at $85. During a sale, the coat is sold at 20% off. After the sale, the store raises the price of the coat 10% over its sale price. What is the price of the coat now?
   A) $18.70
   B) $61.20
   C) $68.00
   D) $74.80

5. If $\frac{a}{b} = 2$, what is the value of $\frac{4b}{a} =$?
   A) 0
   B) 1
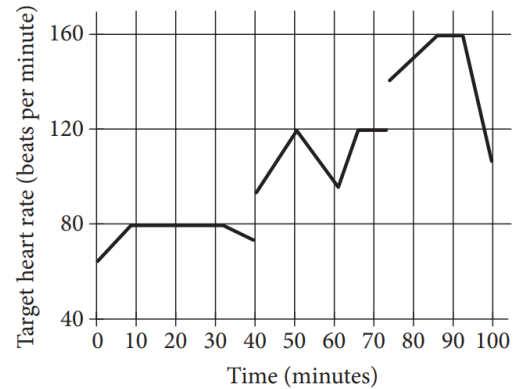   C) 2
   D) 4

6. Note the system of equations below.
   3x + 4y = -23 → Equation 1
   2y – x = - 19 → Equation 2
   What is the solution (x, y) to the system of equations?

A) (−5, −2)
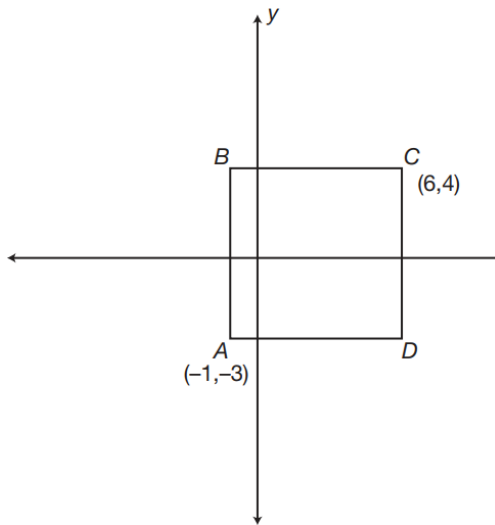B) (3, −8)
C) (4, −6)
D) (9, −6)

7. John runs at different speeds as part of his training program. The graph shows his target heart rate at different times during his workout. On which interval is the target heart rate strictly increasing then strictly decreasing?
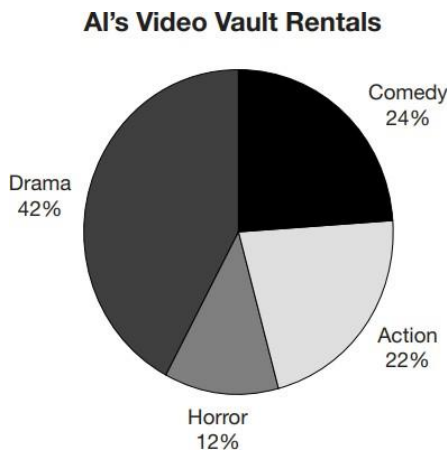

A) Between 0 and 30 minutes
B) Between 40 and 60 minutes
C) Between 50 and 65 minutes
D) Between 70 and 90 minutes

8. At a farmers' market, there is a barrel filled with apples. In the barrel are 40 Fuji apples, 24 Gala apples, 12 Red Delicious apples, 24 Golden Delicious, and 20 McIntosh apples. If a customer reaches into the barrel and selects an apple without looking, what is the probability that she will pick a Fuji apple?
   A) 1/6
   B) 1/3
   C) 2/5
   D) 1/2

9. In the graph above, ABCD is a square. What are the coordinates of point B?
   A. (−1,−4)
   B. (−1,4)
   C. (−1,6)
   D. (−3,1)

10. Rob has six songs on his portable music player. How many different four-song orderings can Rob create? Combinations?
    A) 30
    B) 60
    C) 120
    D) 360
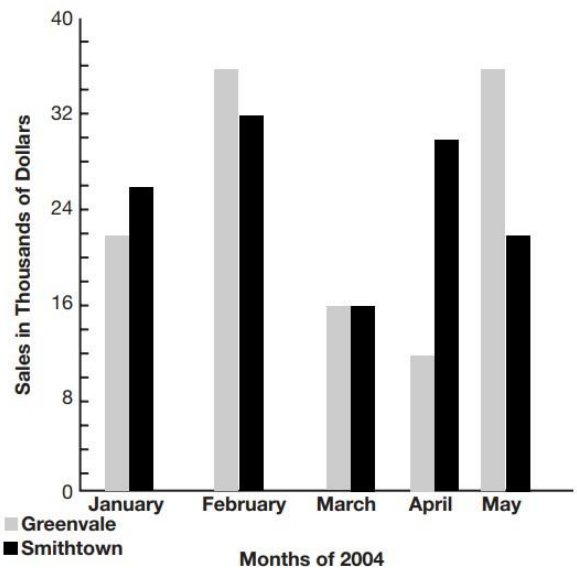
Al's Video Vault Rentals

11. The pie chart above shows the distribution of video rentals from Al's Video Vault for a single night. If

55 action videos were rented that night, what was the **total number** of movies rented out?
A) 12
B) 1210
C) 250
D) 2500

12. If your daily income increases from $60 to $72, what is the percentage of increase?
    A) 12%
    B) 16%
    C) 120%
    D) 20%

13. If 5 peaches sell for $7.50, how much will 8 peaches sell for?
    A) $1.50
    B) $16
    C) $12
    D) $15

Sales of the Greenvale and Smithtown Branches of SuperBooks

14. The graph above shows the sales by month for the Greenvale and Smithtown branches of SuperBooks. From January through May, how much more money did the Smithtown branch made in sales than the Greenvale branch?
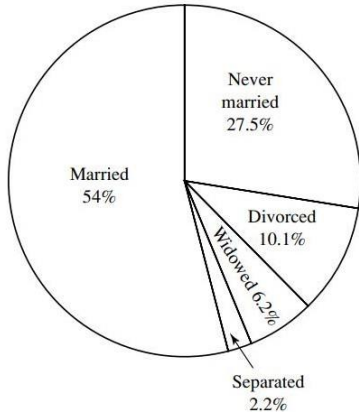   A) $122,000

B) $126,000
C) $4000
D) $248,000

Marital Status of U.S. Citizens over 15 in 2003

15. The graph shows the marital statuses of U.S. citizens ages 15 and over in 2003. If the total number of U.S. citizens over 15 was approximately 222 million in 2003, how many, to the nearest million, were divorced and separated?
A) 2 million
B) 10 million
C) 22 million
D) 27 million

16. The table below gives the frequency with which various scores were obtained on a 20-question written section of a drivers' education test.

Score	12	13	14	15	16	17	18	19	20
Frequency	2	3	0	3	3	5	5	6	4

The mode of the data is
A) 3
B) 6
C) 18
D) 19

17. Ben's age is denoted as x. Samantha age is denoted as y. Michele's age is denoted as z Assume Ben is three times as old as Samantha, who is two years older than half of Michele's age. If Michele is 12, how old is Ben?
A. 8
B. 18
C. 20
D. 24

18. On Saturday afternoon, Armand sent m text messages each hour for 5 hours, and Tyrone sent p text messages each hour for 4 hours. Which of the following represents the total number of messages sent by Armand and Tyrone on Saturday afternoon?
A) 9mp
B) 20mp
C) 5m + 4p
D) 4m + 5p

19. Kathy is a repair technician for a phone company. Each week, she receives a batch of phones that need repairs. The number of phones that she has left to fix at the end of each day can be estimated with the equation P d = 108 – 23 , where P is the number of phones left and d is the number of days she has worked that week. What is the meaning of the value 108 in this equation?
A) Kathy will complete the repairs within 108 days.
B) Kathy starts each week with 108 phones to fix.
C) Kathy repairs phones at a rate of 108 per hour.
D) Kathy repairs phones at a rate of 108 per day.

20. The derivative of ln x with respect to x is:
A) 1/x
B) x
C) e^x
D) 10

Section II: English

For questions 1 to 5, from the given options, choose the option that is **opposite** in meaning to the words written in capital letters.

1. Friendship is always RECIPROCAL.
   A) Mutual
   B) One-sided
   C) Shared
   D) Corresponding

2. Although Jack is PROFICIENT, he is _____ in accounts.
   A) Competent
   B) Ingenious
   C) Inept
   D) Smooth

3. ADMIRE
   A) Like
   B) Detest
   C) Encourage
   D) Happy

4. EXTEND
   A) Condense
   B) Expand
   C) Congestion
   D) Convert

5. EXPLICIT
   A) Upward
   B) External
   C) Implicit
   D) Instinct

For questions 6 to 10, from the given options, choose the option that is **similar** in meaning to the words written in capital letters.

6. The coming decades will likely see more INTENSE clustering of jobs, innovation and productivity in a smaller number of bigger cities and city-regions.
   A) Concentrated
   B) Forceful
   C) Passionate
   D) Energetic

7. There is a large demand all over the United States for plants INDIGENOUS to the desert. Many people in Arizona have made a good business of growing and selling cacti and other local plants.
   A) native
   B) necessary
   C) foreign
   D) alien

8. MEDIOCRE
   A) Undistinguished
   B) Uncertain
   C) Well-mannered
   D) Good

9. ALLOCATE
   A) Apportion
   B) Multiply
   C) Prevail
   D) Hinder

10. PROSPER
    A) Quarrel
    B) Blossom
    C) Train
    D) Calculate

Questions 11 – 15, are based on the information contained in the passage. You are required to interpret the passage and choose the most appropriate answer for the question.

Modern economies do not differentiate between renewable and non-renewable materials, as it prefers to measure everything on monetary terms. So, if we talk about alternative fuels like coal, wood, oil, etc., the only difference between them as recognized by modern economics is their relative cost per equivalent unit. Eventually, the cheapest is the one to be preferred, although it would be irrational and uneconomical. As per Buddhism, the major difference between non-

renewable fuels such as coal, oil and natural gas on the one hand and renewable fuels like wood and water power, on the other hand, cannot be overlooked. Non-renewable fuels must be used only if they are necessary and it should not be wasted, to use these resources carelessly is an act of violence.

11. What is in contrast with the Buddhist economic philosophy?
    A) prefer to use non-renewable resources excessively over renewable resources
    B) using renewable resources excessively over non-renewable resources
    C) spending more on expensive products than cheaper ones
    D) spending more on cheaper products than expensive ones

12. In this passage, the author has given emphasis on the
    A) importance of renewable energy
    B) the difference between renewable and non-renewable materials
    C) difference between two economic philosophies
    D) importance of renewable energy

13. In the passage, the modern economist's approach is compared to
    A) China
    B) A particular religion
    C) Traditional world beliefs
    D) Time unknown

14. How modern economics recognize the difference between renewable and non-renewable materials?
    A) relative cost per equivalent unit
    B) relative use per equivalent unit
    C) relative cost per annum
    D) relative cost per day

15. As per the Buddhist philosophy, fuels like coal and oil must be used only if
    A) their availability is more
    B) alternative fuels are not available
    C) their price is low
    D) their price is high

For each blank in **questions 16 - 18**, select one entry from the choices given. Fill all blanks in the way that best completes the text.

16. Many know him for his great scientific achievements, but Benjamin Franklin always believed that public service should (i) _____ science. Accordingly, his political contributions to the formation of the United States were (ii) _____.
    A) (i) Impede; (ii) Substantial.
    B) (i) Replicate; (ii) Abhorrent
    C) (i) Outweigh; (ii) Substantial.
    D) (i) Outweigh; (ii) Abhorrent.

17. While the first speaker at the conference was confusing and unclear, the second speaker was _____.
    A) Experienced
    B) Ambiguous
    C) Articulate
    D) Loud

18. The release of the book was planned to ___ with the writer's fiftieth birthday.
    A) harmonize
    B) fall with
    C) coincide
    D) Synchronize

Questions 19 and 20 have two words with a certain relationship to each other, and it is followed by four pairs of words. You are required to choose one pair in which the words have the same relationship.

19. Trial: Jury
    A) Election: Voting
    B) Dispute: Arbiter
    C) Doctor: Hospital
    D) Lawyer: Justice

20. Cloth: Mill
    A) Newspaper: Press
    B) Cow: Cheese
    C) North: South
    D) Food: Hunger

Section III: Economics and General Knowledge

1. Who is the authority on the money and coins rotated in the country?
   A) State Bank of Pakistan
   B) Commercial Banks
   C) Government
   D) IMF

2. Which of the following is most true about human capital in a country?
   A) It is equivalent to physical capital.
   B) It is knowledge and skills of the general population.
   C) It is measured in tons.
   D) It can be sold in the market directly.

3. "Want is a growing giant whom the coat of Have was never large enough to cover." According to economists, "Want" exceeds "Have" because:
   A) people are greedy
   B) productive resources are limited
   C) human beings are inherently insecure
   D) people are irrational

4. International Women's Day is celebrated each year on_____?
   A) 12 March
   B) 16 March
   C) 6 March
   D) 8 March

5. In which of the following cities All India Muslim League was found?
   A) Delhi
   B) Lahore
   C) Dhaka
   D) Allahabad

6. SNGPL stands for?
   A) Sui Northern Gas Pipelines Lahore
   B) Sui Northern Gas Pipelines Limited
   C) Sui Northern Gas Pakistan limited
   D) Sui Northern Gas Punjab limited

7. The total demand for goods and services in an economy is known as_____?
   A) gross national product.
   B) national demand.
   C) economy-wide demand
   D) aggregate demand

8. If marginal benefit is greater than marginal cost, a rational choice involves ?
   A) no more of the activity.
   B) less of the activity
   C) more of the activity
   D) more or less, depending on the benefits of other activities

9. A mixed economy?
   A) Has supply but not demand
   B) Has demand but not supply
   C) Has supply and demand
   D) Has market forces and government intervention

10. What are a country's total financial obligations to <u>the rest of the world</u> called?
   A) Total debt
   B) Debt burden
   C) National liabilities
   D) External debt

Section IV: Essay Writing

A recent discussion on television channels, social media and newspapers is on the Pakistani rupee devaluing (i.e., Pakistani Rupee losing value against dollar). Write a short essay on the effect of the devalued currency on Pakistan's Economy. (Explain at least four consequences that a common man in Pakistan faces.) The article attached is to help you build your composition. Length of Essay: Minimum 500 words.

Haider, M. (2023, June 16). **Pakistan's net international reserves stand at negative $14bn: Dr Pasha.** The News. Pakistan's net international reserves stand at negative $14bn: Dr Pasha (thenews.com.pk)

Pakistan's Net International Reserves (NIR) stand at negative $14 billion and Islamabad is left with no option but to seek a larger portion of deposits from friendly countries in the wake of persistent stalemate with the International Monetary Fund (IMF).

It was the crux of the discussion of former finance minister Dr Hafiz A Pasha on the occasion of launching of a study titled "Leading Issues in the Economy of Pakistan", organised by Friedrich-Ebert Stiftung (FES) Pakistan here on Thursday.

He made a projection that the exchange rate should stand at Rs322 against the US dollar.

Dr Pasha, author of the study, suggested revising the China-Pakistan Free Trade Agreement (CPFTA) whereby the trade balance was highly in favour of China. He said that the ratio of imports and exports stands at 6:1, showing the kind of Free Trade Agreement done with China.

When asked about the Plan B in case of no revival of the IMF programme, he said that as indicated by the minister for finance in his presser, Pakistan could go for debt re-profiling of its bilateral debt as Islamabad owed its bilateral debt to Paris Club and China. About 2/3 of bilateral external debt belonged to China.

"Pakistan could probably talk to its Chinese side to re-profile its bilateral debt," he said.Out of external vulnerabilities ranking, Dr Pasha said that Pakistan stood at the 9th position among the list of 11 countries. He stated that the market-based exchange rate fuelled inflationary pressures and found that food inflation was nearing almost 50 percent out of which 53 percent was contributed by the deterioration in exchange rate and 27 percent by import compression. So, the 80 percent inflation was the contribution of exchange rate while 11 percent was contributed by rise in administrative prices of petrol, electricity and gas.Dr Pasha shared that the unemployment rate went up from 6 to 6.5 percent in Pakistan to 10-11 percent in the outgoing fiscal year. There are 2.3 million workers added to the list of employed persons. He said that for the first time in the country's history, 8 million male youth were idle in the country, which reminded him of Arab Spring like situation as many of them were educated. There are 15 million female youth who are idle between the age of 15 to 29 years.

On poverty, he said that over 100 million Pakistanis were living in the clutches of poverty, which is the highest-ever absolute figure of people living below the poverty line in the country. He shared his findings and stated that there was a poverty gap of Rs2,400 billion for fulfilling the basic needs of those living below the poverty line against the BISP allocation of Rs430 billion in the latest budget.

He said that Pakistan had over-liberalised its trade regime and quoted the World Trade Organisation (WTO) for proving his point, which confirms that Pakistan's imports regime was more liberalised than India and Bangladesh.

He said the imposition of agriculture income tax could fetch net revenues of Rs1,250 billion against the existing collection of just Rs4 billion by the provinces.

Dr Pasha also advocated for coming out with regional GDP figures arguing that Balochistan's real per capita income had come down from $1,999 in 2021-22. All other provinces improved as KP had taken off, Punjab maintained its real per capita income and Sindh also did well. However, Balochistan lagged behind despite favourable NFC Award under which its share was increased and protected.

Minister of State for Finance Dr Aisha Ghaus Pasha said on the occasion that there were difficulties on the economic front but there was a need to share future course of correction and reform path. She said that there was a need to sit together as the existing polarisation would lead us nowhere.