

MBA (Economics) March-April 2023

[Time :3 Hours]

[Total Marks:100]

- N.B. i. All questions are compulsory.
2. All questions have an internal choice.
3. Figures to the right indicate full marks.

Q.1. Attempt Any Two of the following. 20
a) Explain the types of environmental degradation.
b) What are the causes of Land Pollution?
c) Elaborate Renewable and Non-renewable resources.

Q.2. Attempt Any Two of the following. 20
a) Are Economic Assets and Environmental Assets different? Justify your answer with examples.
b) What do you understand about Green Business? Explain how it has minimal negative effect on the environment.
c) Explain briefly the concept of Green Gross Domestic Product? What are the needs, limitations and major issues in Green GDP?

Q.3. Attempt Any Two of the following. 20
a) Discuss in detail the concept of sustainable development with its features.
b) Outline the Smart Cities Mission in India.
c) Explain the sustainable development goals (SDGs).

Q.4. Attempt Any Two of the following. 20
a) Provide an overview of Environmental Laws In India.
b) Write about functions of the Central Pollution Control Board.
c) Discuss about the Pradhan Mantri Ujjwala Yojana.

Q.5. Write the short notes on. 20
a) Effects of water pollution.
b) Green Consumerism.
c) Strategies adopted by the National Mission for Sustainable Agriculture (NMSA).
d) National Green Tribunal.

OR

Q.5 Choose the right answer from the given options and rewrite the statement. 20

- Which among the following is an environmental problem?
A. Deforestation B. Conservation of land C. Reduced pollution D. Decreased population
- Environmental degradation is caused by _____.
A. Conservation of nature B. Over-exploitation of nature C. Preserving ecosystem D. Afforestation
- The extraction and sale of a unit of exhaustible resource today involves an additional cost, called _____.
A. money cost B. real cost C. user cost D. implicit cost

4. The resources that can be easily replenished by natural cycles are known as _____.
 A.Renewable Resources B.Environmental Resources C.Developmental Resources D.Non-Renewable Resources
5. What is the preservation and wise use of natural resources called?
 A.Habitat B.Ecology C.Conservation D.Wastage
6. What is the basic objective of environmental accounting?
 A.Make available true and reliable information about the environment
 B.Study and analyze environmental assessment, measurement and control processes
 C.Establish parameters to provide relevant information
 D. Reveal the degree of impact on the environment
7. The distinction between _____ assets lies at the heart of environmental accounting
 A.Financial and Physical B.Economic and Environmental/Natural C.Cash and Deposit D.Public and Private
8. The System of Integrated Environmental and Economic Accounting/ SEEA, also called _____, refers to modification of the System of National Accounts (SNA) to incorporate the use or depletion of natural resources.
 A.green accounting B.blue accounting C.sustainable accounting D.clean accounting
9. _____ business decisions are the cornerstone of green businesses.
 A.Socially responsible B.Most profitable C.Strategic D.Operational
10. Green attitude related to the tourists consumption denotes _____.
 A. selection of environment place for vacation B.more holidays C.visiting only natural stocks D.be at home always
11. _____ is one of the cities selected in the first round for smart City.
 A.Patna B.Trivandrum C.Gangtok D.New Delhi municipal corporation
12. P M Awaz Yojana help in attainment of _____ goal of sustainable development.
 A.Climate Action B.Sustainable cities and Communities C.gender equality D.reduced inequalities
13. Under Greenfield projects there will be _____.
 A.redevelopment of existing city B.extension of city C.transformation of infrastructure D.redevelopment of slums
14. _____ is the fifth goal of sustainable development.
 A.Zero hunger B.No poverty C.Quality education D.Gender equality
15. Agenda for Sustainable Development includes _____ goals.
 A.17 B.15 C.12 D.10

16. _____ is not a component of National Mission for Sustainable Agriculture
A.National Bamboo Mission B.Soil Health Management C.Corporate Finance Mission D.Rainfed Area Development
17. _____ is the apex administrative body in India for regulating and ensuring environmental protection.
A.Ministry of Law B.Ministry of Finance C.Ministry of Environment and Forests D.Home Ministry
18. The Coastal Regulation Zone Notification, 1991 is related to _____
A.Air pollution B.Water pollution C.Biodiversity Conservation D.Forest Conservation
19. Financial support of Rs _____ is provided by the Pradhan Mantri Ujjwala Yojana for each LPG connection for BPL households.
A.2000 B.1600 C.1000 D.800
20. The Ministry of Environment and Forests launched the Environment Education, Awareness and Training Scheme in _____
A.1991 B.1986 C.1983 D.1988

Time: 3 hours

[Total Marks: 100]

N.B.

- i) All questions are compulsory.
- ii) Each question carries 20 marks
- iii) The use of simple calculator is allowed.

Q.1 Attempt any two of the following: 20
A) Given the following probability distribution of Variable X, calculate $E(X)$ and $V(X)$

X	-2	-1	0	1
P(X)	1/8	1/8	1/4	1/2

B Calculate the covariance of the random variables X and Y given the following joint p.m.f

X/Y	0	1	2
1	0.1	0.1	0
2	0.1	0.1	0.2
3	0.2	0.1	0.1

C) Following is the joint probability mass function of X and Y.

		Y		
		10	11	12
X	0	0.1	0.2	0.1
	1	0.2	0.2	0.2

- i) marginal probability distributions of X and Y.
- ii) conditional probability distribution of Y when $X=1$

Q.2 Attempt any two of the following: 20
A) Define:

- i) Null Hypothesis and Alternative Hypothesis
- ii) Type I error and Type II error

B) i) A company wanted to compare the performance of its call center employees in two different centers located in two different parts of the country – Hyderabad, and Bengaluru, in terms of the number of tickets resolved in a day (hypothetically speaking). The company randomly selected 30 employees from the call center in Hyderabad and 30 employees from the call center in Bengaluru. The following data was collected:

Hyderabad: $\bar{x}_1 = 700, \sigma_1 = 20$

Bengaluru: $\bar{x}_2 = 730, \sigma_2 = 25$

Check at 5% level of significance, whether the performance of employees at two centers is same or not. ($Z_{0.05} = 1.645$)

- ii) A sample of size 10 has arithmetic mean as 65.2 and standard deviation 20. Can it come from the population with mean 50.

$$(t_{0.05} = 2.262)$$

- C) In one experiment, two random samples gave the following results:

Sample	Size	Sample mean	Sum of squares of deviations from the mean
1	10	15	90
2	12	14	108

Test the equality of sample variances at 5% level of significance. Table values of F for degrees of freedom 9 and 11 is 2.90 F for degrees of freedom 11 and 9 is 3.10.

Q.3

Attempt any two of the following:

20

- A) Derive the OLS estimators of a linear regression model $Y_i = \beta_0 + \beta_1 X_i$.
- B) The following table includes the price and quantity demanded for the product.

Quantity (in units)	10	6	8	14	16	0
Price (₹)	4	8	6	2	6	10

- (i) Estimate the demand function for the product, $Y_i = \beta_0 + \beta_1 X_i$
- (ii) Estimate the average elasticity of demand.

- C) What are the assumptions of the Classical Linear Regression Model?

Q.4

Attempt any two of the following:

20

- A) Discuss the implications of multicollinearity.
- B) What are the consequences of heteroscedasticity?
- C) i) For the following data series, confirm if there is auto-correlation.

$$\sum_{t=1}^{20} e^2_t = 7587.9154, \quad \sum_{t=2}^{20} (e_t - e_{t-1})^2 = 3195.2065$$

($d_L = 1.20, d_U = 1.41$ at 5% level of significance)

- ii) Apply Goldfeld- Quandt test to determine the presence of heteroscedasticity for the following regression equation based on the first 11 observations:

$Y_i = -738.84 + 0.088X_i$, Residual Sum of Squares = 377.17 with 9 degrees of freedom

Regression equation based on last 11 observations:

$Y_i = 1141.07 + 0.029X_i$, Residual Sum of Squares = 1536.8 with 9 degrees of freedom

($F_{0.05} = 3.18$ at 5% level of significance for 9 degrees of freedom)

Answer any two of the following

20

Q.5

- A) i) What are the properties of Poisson Distribution? (04)
- ii) For a normally distributed random variable (X), mean=200 and S.D. =25. (06)
Find $P(175 < X < 215)$.
(Given $0 < Z < 1 = 0.3413$ & $0 < Z < 0.6 = 0.2257$)
- B) Point estimation and interval estimation
C) Co-efficient of determination
D) Durbin- Watson 'd' test

Q.5

Multiple Choice Question (Select an appropriate option)

20

A binomial distribution is _____ distribution.

1. A) Continuous
B) Discrete
C) Normal
D) Not discrete
2. A variable whose value depends upon the outcome of a random experiment is known as _____.
A) Random Variable
B) Static Variable
C) Linear Variable
D) Sample Variable
3. Bernoulli trials has _____ trials.
A) Two
B) Three
C) Four
D) Infinity
4. Number of deaths due to road accidents in a city during a month is said to follow _____ distribution.
A) Bernoulli
B) Binomial
C) Poisson
D) Normal

- 13 $E(Y/X_i) = f(X_i)$ is referred to as
 A) conditional expectation
 B) intercept line
 C) population regression line
 D) linear regression line
- 14 Given $\sum X = 50$, $\sum Y = 60$, $\hat{\beta} = 5$ and $N = 10$ then $\hat{\alpha} =$ ____
 A) -19
 B) 19
 C) 25
 D) 6
- 15 The assumption of equal variance of error term u for all the values of explanatory variables is called as _____.
 A) Autocorrelation
 B) Multicollinearity
 C) heteroskedasticity
 D) homoskedasticity
- 16 Durbin Watson statistic varies between _____.
 A) 1 and 1
 B) 0 and 4
 C) 0 and 1
 D) 0 and 2
- 17 _____ problem exists in the data as economic magnitudes have a tendency to move together over time.
 A) Autocorrelation
 B) Multicollinearity
 C) heteroskedasticity
 D) homoskedasticity
- 18 The problem of _____ arises when the variance of the error terms is not the same for all the independent variables.
 A) Autocorrelation
 B) Multicollinearity
 C) heteroskedasticity
 D) homoskedasticity
- 19 Dropping variable which is creating multicollinearity is a means to
 A) identify multicollinearity
 B) response multicollinearity
 C) estimate multicollinearity
 D) remove multicollinearity
- 20 Auto-correlation _____ in the co-efficient estimates.
 A) cause bias
 B) does not cause bias
 C) standard deviation
 D) reverses sign

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Time: 2 ½ Hours

Marks: 100

N.B. 1) All the questions are compulsory.

2) Figures to the right indicate full marks.

- Q. 1 Answer **any two** from the following 20
- a) What is International Banking? State reasons for growth of International Banking.
 - b) Discuss in detail the recent trends in international banking.
 - c) What are the advantages and disadvantages of cryptocurrency?
- Q. 2 Answer **any two** from the following. 20
- a) What are the functions of international banking?
 - b) Explain the concept of correspondent banking.
 - c) Discuss in detail the concept of Islamic banking.
- Q. 3 Answer **any two** from the following. 20
- a) Explain international remittance and its method.
 - b) Explain phases and types of load syndication.
 - c) Discuss the role of international credit rating agencies.
- Q. 4 Answer **any two** from the following. 20
- a) What is risk management? What are the types of risks?
 - b) Explain internal and external hedging.
 - c) Explain derivative instruments for risk management.

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(Time: 2:30 Hours)

(Marks: 80)

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- N.B.**
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw neat diagrams where necessary.
- =====

Q. 1 - Solve any two sub-questions from the following.

- a) Discuss the Drain Theory of Dadabhai Naoroji.
- b) Briefly review the major economic ideas of G.G.Agarkar.
- c) Explain the Ranade's ' Case on Economic Protection'.

Q. 2 - Solve any two sub-questions from the following.

- a) Explain the Mahatma Phule's approach regarding to agriculture.
 - b) Outline the Mahatma Gandhi's concept of ' Self-Sufficient Village.'.
 - c) 'Mahatma Gandhi's approach to labor dignity is based on labor equality.'
- Discuss.

Q. 3 - Solve any two sub-questions from the following.

- a) Explain the Dr. Babasaheb Ambedkar's 'State Socialism'.
- b) Describe the Three Steps suggested by Dr. Manmohan Singh to prevent financial crisis in India.
- c) Explain the Gokhale's view on economic development.

Q. 4 - Solve any two sub-questions from the following.

- a) Explain the Amartya Sen's views on welfare economics and social choice.
- b) Make a note on 'Economics of Information' by Joseph Stiglitz.
- c) Discuss the paradigm proposed by Robert Mundell for open economy.