2018

ECONOMICS (Honours)

Paper Code : V-A

[New Syllabus]

Full Marks : 20   Time : Thirty Minutes

Important Instructions for OMR Sheet

1. Write / Fill your correct Subject Name, Subject Code & Paper Code in the space provided on the top of the OMR sheet (Subject Codes are given on the back of the OMR sheet & Paper Code in the Question Paper.)

2. Write / Fill your Name, Roll number, Registration number, Regn. Session, Exam Date and Exam Session in the space provided on the OMR Sheet.

3. Each item has four alternative responses marked (A), (B), (C) and (D). You have to darken the circle as indicated below on the correct response against each item.

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OMR Sheet-এর জন্য জরুরী নির্দেশাবলী

১। OMR Sheet এর নির্দেশিত স্থানে সঠিক Subject Name, Subject Code এবং Paper Code লিখতে/পূরণ করতে হবে। OMR Sheet এর পিছনের পাতায় Subject Code গুলি দেওয়া আছে এবং Paper Code টি প্রশ্নপত্রে উল্লেখ আছে।

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৩। প্রতিটি প্রশ্নে চারটি করে সম্ভাব্য উত্তর, যথাক্রমে (A), (B), (C) এবং (D) করে দেওয়া আছে। পরীক্ষার্থীকে সঠিক উত্তরের গোল ঘরটি নীল/কালো কালিতে পূরণ করতে হবে।

৪। সঠিক উত্তর কেবলমাত্র উত্তর পত্র অর্থাৎ OMR Sheet-এর নির্দিষ্ট স্থানে গোল ঘর পূরণ করেই দিতে হবে। অন্য কোনো উপায়ে দেওয়া উত্তরের মূল্যায়ন হবে না।

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Answer *all* the questions in OMR sheet.

Choose the correct answer.

Each question carries 2 marks.

1. Algebraic sum of deviations from Mean of any observation is —

    (A) Positive

    (B) Negative

    (C) Zero

    (D) Different for each case

2. Proportion of girls in a class of 100 students is —

    (A) Attribute

    (B) Discrete Variable

    (C) Continuous Variable

    (D) None of these

3. Mean, Median and Mode are same for —

    (A) Poisson distribution

    (B) Normal distribution

    (C) Binomial distribution

    (D) Hypergeometric distribution

4. If A_1, A_2 and A_3 are equally likely exhaustive and mutually exclusive, then $P(A_1)$ equals —

    (A) 0

    (B) 1

    (C) $\frac{1}{2}$

    (D) $\frac{1}{3}$

5. In simple random sampling without replacements, the probability that a particular number is included in the selected sample is —

    (A) $\frac{1}{N}$

    (B) $\frac{n}{N}$

    (C) $\frac{1}{n}$

    (D) $\frac{N}{n}$

6. If $E(x) = 4$ and $\text{var}(x) = 9$, then $E(x^2)$ equals to —

    (A) 25

    (B) 16

    (C) 81

    (D) 5

7. The vertical axis in case of an Ogive shows —

    (A) Relative frequencies

    (B) Frequencies

    (C) Cumulative Frequencies

    (D) Frequency Density

Turn Over

8. If $P(A) = \frac{1}{4}$, $P(B) = \frac{2}{5}$, $P(A+B) = \frac{1}{2}$, the value of $P(AB)$ is —

(A) $\frac{3}{20}$

(B) $\frac{1}{20}$

(C) $\frac{2}{19}$

(D) None of them

9. Rank correlation is essential, when we need to calculate degree of assumption between

(A) Two quantitative variable

(B) Two dependent variables

(C) Two variables when one is qualitative

(D) All of the above

10. For two variables which one of the following is true ?

(A) $(GM)^2 = AM + HM$

(B) $GM = AM \times HM$

(C) $(GM)^2 = AM \times HM$

(D) $\sqrt{GM} = AM + HM$

P - III (1+1+1) H / 18 (N)

2018

ECONOMICS (Honours)

Paper Code : V-B

[New Syllabus]

Full Marks : 80   Time : Three Hours Thirty Minutes

The figures in the margin indicate full marks.

Section - I

[Short Essay Type Questions]

Answer any *four* questions.   10×4=40

1. (a) Prove that the logarithm of the geometric mean of a variate is the arithmetic mean of its logarithm.

(b) Suppose the relation between the variables x and y is $xy = 2$, find the relation between harmonic mean of x and arithmetic mean of y.   5+5

2. From the following data, calculate coefficient of variation

Class	:	10-20	20-30	30-40	40-50	50-60
Frequency	:	5	10	12	8	5

     10

3. Calculate skewness of the following distribution and comment on its nature

Class Limits	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89
Frequency	5	9	14	20	25	15	8	4

     10

Turn Over

4. Find the seasonal indices by the method of moving average from the following series of observations :

Quarter	Quarterly Output ('000 tonnes)		
	2014	2015	2016
I	101	106	110
II	93	96	101
III	79	83	88
IV	98	103	106

10

5. (a) If x and y are independent variates, then prove that they are uncorrelated. Is the converse true ?

   (b) Calculate 'r' from the following given results :

   $n = 10$; $\Sigma x = 125$; $\Sigma x^2 = 1585$;

   $\Sigma y = 80$, $\Sigma y^2 = 650$; $\Sigma xy = 1007$ 5+5=10

6. Calculate price index and quantity index numbers from the following data by (i) Laspeyre's Method; (ii) Paasche's Method.   5+5=10

Method Commodity	2005		2015	
	Price	Quantity	Price	Quantity
A	10	10	12	12
B	12	12	14	14
C	14	14	16	16
D	16	16	18	18
E	18	18	20	20

Turn Over

7. (a) State Bayes' Theorem of Probability.

   (b) The probability of a design being faulty is 0.4 and correct otherwise. A building collapsed due to faulty design has the probability 0.75, while the probability of the building collapsed despite correct design is 0.35. Now it has been found that the building has been collapsed. What is the probability that the collapse of the building is due to faulty design.   4+6=10

8. Prove that Poisson distribution is a limiting case of Binomial Distribution.   10

Section - II

[Essay Type Questions]

Answer any *two* questions.   20×2=40

9. (a) Define mutually exclusive, exhaustive and equally likely event.   6

   (b) A uniform die is thrown at random. Find the probability that the number on it is (i) 5; (ii) greater than 4; (iii) even ; (iv) odd   6

   (c) Prove that in case of Binomial Probability distribution, Mean = np and variance = npq.   8

10. (a) What is scatter diagram ?

    (b) Ten competitors in a musical contest were ranked by 3 judges A, B, C in the following order :

Ranks A	1	6	5	10	3	2	4	9	7	8
Ranks B	3	5	8	4	7	10	2	1	6	9
Ranks C	6	4	9	8	1	2	3	10	5	7

   (c) Find the mean of x, mean of y and r_{xy} from the regression equations.

   $3x + 12y = 19$

   $3y + 9x = 46$ 2+10+8

11. (a) What is stratified sampling ?

(b) Distinguish between standard error and standard deviation.

(c) A car hire firm has 2 cars which it hires out day by day. The number of demands for a car on each day follows Poisson distribution with mean 1.5. Calculate the proportion of days on which (i) neither car is used, (ii) some demand is refused. $\left(\text{Given } e^{-1.5} = 0.2231\right)$

(d) As a result of test on electric light bulbs, it was found that the lifetime of a particular make was distributed normally with an average life of 1000 burning hour and standard deviation of 200 hours. Out of 10,000 bulbs produced by the company how many bulbs are expected to fail (i) in the first 800 burning hours, (ii) between 800 and 1200 burning hours.   3+4+7+6=20

12. (a) The mean and standard deviation of 20 observations are found to be 10 and 2 respectively. At the time of checking it was found that one observation 8 was incorrect. Calculate the mean and s.d. when the wrong observation is replaced by 12.

(b) Prove that the s.d. calculated from two values x_1 and x_2 of a variable X is equal to half their difference.

(c) The expenditure of 1000 families is given below :

Expenditure (Rs.)	40-59	60-79	80-99	100-119	120-139
No. of Families	50	?	500	?	50

The median and mean for the distribution are both Rs. 87.50 p. Calculate the missing frequencies.   8+4+8=20

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P - III (1+1+1) H / 18 (N)

2018

ECONOMICS (Honours)

Paper Code : VI-A

[New Syllabus]

Full Marks : 20   Time : Thirty Minutes

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OMR Sheet-এর জন্য জরুরী নির্দেশাবলী

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Answer *all* the questions in OMR sheet.

Choose the correct answer.

Each question carries 2 marks.

1. A nations's demand curve for foreign exchange is derived from —

   (A) the foreign demand for the nation's export and import

   (B) the nation's demand curve for imports and foreign supply curve of the nations import

   (C) the nation's supply curve of export and foreign demand curve of nations import.

   (D) the foreign's supply curve of nation's import.

2. Who benefits from tariff protection ?

   (A) Domestic consumers of the goods produced

   (B) Foreign consumers of the goods produced

   (C) Domestic producers of the goods produced

   (D) Foreign producers of the goods produced

3. For Heckscher-Ohlin, the most important cause of the difference in relative commodity prices and trade between nations is a difference in —

   (A) factor endowments

   (B) technology

   (C) tastes

   (D) demand conditions

4. Progressive taxes —

   (A) Increase government revenue

   (B) Brings equality in distribution of income

   (C) Act as penalty for rich people

   (D) Both (A) and (B)

5. The best way to finance the government budget is —

   (A) By taxing people

   (B) By printing new money

   (C) By borrowing from Banks

   (D) By fining people doing illegal activities

6. The opportunity cost theory assumes that —

   (A) Labour is the only factor of production

   (B) Labour is homogeneous

   (C) (A) + (B)

   (D) None of the above

7. According to Rybczynski Theorem, at constant commodity prices, increase in the endowment of one factor will increase the output of the commodity intensive in that factor by a —

   (A) Greater proportion

   (B) Smaller proportion

   (C) Equal proportion

   (D) None of the above

Turn Over

8. The condition of efficiency in a world consisting of a pure public good (G) and Private good (X) requires —

   (A) $MRS_{XG} = MRT$

   (B) $\sum MRS_{XG} = MRT$

   (C) $\sum MRS_{XG} > MRT$

   (D) None of the above

9. Taxation based on benefit approach would usually lead to a type of taxation known as —

   (A) Progressive

   (B) Regressive

   (C) Proportional

   (D) Both (B) and (C)

10. Reduction in income tax is likely to —

   (A) increase work effort

   (B) decrease work effort

   (C) produced no effect on work effort

   (D) none of the above

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Turn Over

P - III (1+1+1) H / 18 (N)

2018

ECONOMICS (Honours)

Paper Code : VI-B

[New Syllabus]

Full Marks : 80   Time : Three Hours Thirty Minutes

The figures in the margin indicate full marks.

Group - A

[International Trade]

Section - I

[Short Essay Type Questions]

Answer any *two* questions.

1. (a) Why the offer curves are called reciprocal demand curve ?

   (b) How elasticity of export and import can be measured from the offer curve ?   5+5

2. Critically examine Infant Industry Argument for protection.   10

3. (a) Distinguish between the Theory of absolute advantage and the Theory of comparative of international trade.

   (b) Explain why the Ricardian theory of International Trade can be considered as an example of trade with comparative advantages.   5+5

4. State the functions of IMF.   10

Section - II

[Essay Type Questions]

Answer any *one* question.

5. (a) Distinguish between Balance of Payment and Balance of Trade.

(b) Balance of Payment always in balance — Explain.

(c) State the causes of disequilibrium of Balance of Payments. Suggests some measures to correct the disequilibrium. 5+5+10=20

6. (a) What are the assumptions of the Heckscher - Ohlin Theory of International Trade ?

(b) Explain briefly the physical and price definition of Relative Factor Abundance.

(c) Using price definition explain the H.O. Theorem of factor proportion. 5+7+8

Group - B

[Public Finance]

Section - I

[Short Essay Type Questions]

Answer any *two* questions.

7. (a) How do we measure efficiency loss due to function ?

(b) Give example of a tax which does not lead to efficiency loss. Explain. 5+5=10

8. (a) What do you mean by deficit financing and what are its objectives ?

(b) Describe some instruments of deficit financing. 5+5=10

Turn Over

9. Discuss the merits and demerits of indirect tax. 10

10. Write a note of Balance Budget Multiplier. 10

Section - II

[Essay Type Questions]

Answer any *one* question.

11. (a) Show that inelastic side of the market bears greater burden of tax.

(b) Assume that in a competitive market the supply function is given by $P = Q$ and the demand function is $P = 10$. Assume also that the producers have to pay a tax equal to 't' per unit produced. Show in figures who bears the burden of tax and explain. Show the amount of tax revenue collected and the welfare loss. 10+10=20

12. (a) Define Revenue deficit, Fiscal deficit and Primary deficit. Explain importance of these in understanding the healths of the Govt. Finance.

(b) Explain the effect of public expenditure on production and distribution of income. 10+(5+5)=20

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P - III (1+1+1) H / 18 (N)

2018

ECONOMICS (Honours)

Paper Code : VII-A

[New Syllabus]

Full Marks : 20   Time : Thirty Minutes

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৬। পরীক্ষা শেষে উত্তর পত্র (OMR Sheet) সংশ্লিষ্ট তত্ত্বাবধায়কের নিকট জমা দিয়ে পরীক্ষা কেন্দ্রের বাইরে বেরোতে হবে এবং কোনোভাবেই পরীক্ষা কেন্দ্রের বাইরে OMR Sheet টি আনা যাবে না।

৭। শুধুমাত্র নীল/কালো বল পয়েন্ট কলম ব্যবহার করতে হবে। পরীক্ষাকক্ষে মোবাইল ফোন, ক্যালকুলেটর অথবা লগ-টেবিল ইত্যাদি ব্যবহার নিষিদ্ধ।

Answer *all* the questions in OMR sheet.

Choose the correct answer.

Each question carries 2 marks.

1. The Unbalanced Growth was propounded by —

    (A) Nurkse

    (B) Leibenstein

    (C) Hirschman

    (D) Rosenstein Rodan

2. The HDI is formulated by —

    (A) UNCTAD

    (B) UNICEF

    (C) UNDP

    (D) IBRD

3. The Physical Quality of Life Index (PQLI) combine three indicators.

    (A) Crime Rate, Clean Environment, Quality of Housing

    (B) Air Pollution Rate, Water Pollution Rate and Sanitation

    (C) Health, Education and Environment

    (D) Infant Mortality, Life Expectancy and Adult Literacy Rate

4. Which is not the Central Govt's Tax ?

    (A) Agricultural Income Tax

    (B) Custom Duty

    (C) Capital Gains Tax

    (D) GST

5. Under which article of the constitution of India, the Finance Commission is appointed by President of India.

    (A) Act 279

    (B) Act 280

    (C) Act 281

    (D) Act 282

6. According to Malthus Theory of Population; population

    (A) Increase proportionally to economic growth

    (B) Increase geometrically, outstripping food supply, which grow arithmetically

    (C) Increase stagnantly with food supply and economic development

    (D) Increase disproportionately, surpassing agricultural production

7. In HDI, which of the following is not taken as indicator ?

    (A) Life Expectancy

    (B) Literacy

    (C) GDP per capita

    (D) Per capita Food Consumption

8. A value of Gini Index represents —

    (A) Low inequality

    (B) Maximum inequality

    (C) 0% inequality

    (D) 1% inequality

Turn Over

9. Which one among the following formulates the fiscal policy in India ?

(A) NITI AYOG

(B) Finance Commission

(C) Reserve Bank of India

(D) Ministry of Finance

10. EXIM Bank was established in —

(A) January 1982

(B) March 1984

(C) February 2001

(D) August 1975

Turn Over

P - III (1+1+1) H / 18 (N)

2018

ECONOMICS (Honours)

Paper Code : VII-B

[New Syllabus]

Full Marks : 80   Time : Three Hours Thirty Minutes

The figures in the margin indicate full marks.

Group - A

[Development Economics]

Section - I

Answer any *two* questions.   10×2=20

1. Explain Lewis Model of Economic Development in a labour surplus economy.   10

2. Describe absolute and relative measures of poverty.   10

3. Make a comparison between balanced and unbalanced growth.   10

4. What is the role of capital formation in economic development ? How human capital formation helps in economic development ?   6+4

Section - II

Answer any *one* question :   20×1=20

5. (a) What is meant by vicious circle of poverty ?

   (b) Critically examine the way Leibenstein suggested the breaking of vicious circle of poverty.   5+15=20

6. (a) Give an outline of the arguments in favour and against the choice of labour intensive production technique in developing countries.

(b) Explain Sen's model of Choice of Technique in this context ?

10+10=20

Group - B

[Indian Economic Issues and Planning]

Section - I

Answer any *two* questions :   10×2=20

7. Discuss the main features of Indian Tax system.

8. Give an outline of the arguments in favour and against of privatisation in India.

9. Write a short note on Centre State financial relation of India.

10. Do you think that the solution to India's Balance of Payments problems lies more in export promotion than in import restriction.

Section - II

Answer any *one* question.   20×1=20

11. (a) Discuss the role assigned to the public sector in India since Independence.

(b) State the reasons for the poor performance of the public sector in India.

12. Explain the role of Monetary Policy in controling inflation and boosting growth of Indian economy.

———————

5/123-500   (7)

P - III (1+1+1) H / 18 (N)

2018

ECONOMICS (Honours)

Paper Code : VIII-A

[New Syllabus]

Full Marks : 10   Time : Thirty Minutes

Important Instructions for OMR Sheet

1. Write / Fill your correct Subject Name, Subject Code & Paper Code in the space provided on the top of the OMR sheet (Subject Codes are given on the back of the OMR sheet & Paper Code in the Question Paper.)

2. Write / Fill your Name, Roll number, Registration number, Regn. Session, Exam Date and Exam Session in the space provided on the OMR Sheet.

3. Each item has four alternative responses marked (A), (B), (C) and (D). You have to darken the circle as indicated below on the correct response against each item.

4. Your responses to the items are to be indicated in the **OMR Sheet given inside the Paper Booklet only**. If you mark at any place other than in the circle in the OMR Sheet, it will not be evaluated.

5. If you write your Phone Number in the OMR Sheet or use abusive language or employ any other unfair means, you will render yourself liable to disqualification.

6. You have to return the OMR Sheet to the invigilators at the end of the examination compulsorily and must not carry it with you outside the Examination Hall.

7. **Use only Blue/Black Ball point pen. Use of any mobile phone, calculator or log table etc. in examination hall, is prohibited.**

5/124-500

OMR Sheet-এর জন্য জরুরী নির্দেশাবলী

১। OMR Sheet এর নির্দেশিত স্থানে সঠিক Subject Name, Subject Code এবং Paper Code লিখতে/পূরণ করতে হবে। OMR Sheet এর পিছনের পাতায় Subject Code গুলি দেওয়া আছে এবং Paper Code টি প্রশ্নপত্রে উল্লেখ আছে।

২। OMR Sheet এর নির্দেশিত স্থানে Name, Roll number, Registration number, Regn. Session, Exam date এবং Exam Session লিখতে/পূরণ করতে হবে।

৩। প্রতিটি প্রশ্নে চারটি করে সম্ভাব্য উত্তর, যথাক্রমে (A), (B), (C) এবং (D) করে দেওয়া আছে। পরীক্ষার্থীকে সঠিক উত্তরের গোল ঘরটি নীল/কালো কালিতে পূরণ করতে হবে।

৪। সঠিক উত্তর কেবলমাত্র উত্তর পত্র অর্থাৎ OMR Sheet-এর নির্দিষ্ট স্থানে গোল ঘর পূরণ করেই দিতে হবে। অন্য কোনো উপায়ে দেওয়া উত্তরের মূল্যায়ন হবে না।

৫। পরীক্ষার্থীর ফোন নম্বর OMR Sheet এর কোনো অংশে লেখা যাবে না। কোনোরূপ অবাঞ্ছিত শব্দ লেখা বা দুর্নীতির আশ্রয় নিলে পরীক্ষার্থী নিজেই তার জন্য দায়ী থাকবে।

৬। পরীক্ষা শেষে উত্তর পত্র (OMR Sheet) সংশ্লিষ্ট তত্ত্বাবধায়কের নিকট জমা দিয়ে পরীক্ষা কেন্দ্রের বাইরে বেরোতে হবে এবং কোনোভাবেই পরীক্ষা কেন্দ্রের বাইরে OMR Sheet টি আনা যাবে না।

৭। শুধুমাত্র নীল/কালো বল পয়েন্ট কলম ব্যবহার করতে হবে। পরীক্ষাকক্ষে মোবাইল ফোন, ক্যালকুলেটর অথবা লগ-টেবিল ইত্যাদি ব্যবহার নিষিদ্ধ।

Answer *all* the questions in OMR sheet.

Choose the correct answer.

Each question carries 2 marks.

1. MSY of renewable resources —

   (A) Rate of harvest = Rate of growth of stock

   (B) Rate of harvest > Rate of growth of stock

   (C) Rate of harvest < Rate of growth of stock

   (D) Maximum rate of growth of stock

2. Efficient allocation of public good satisfies the following condition —

   (A) $\sum_{i=1}^{n} MRS > MRT$

   (B) $\sum_{i=1}^{n} MRS < MRT$

   (C) $\sum_{i=1}^{n} MRS = MRT$

   (D) $MRS_1 = MRS_2 = ... MRS_n = MRT$

3. The collection of Pigouvian tax revenue —

   (A) Should be distributed equally among the victims

   (B) Should be distributed to the victim who is effected the most

   (C) Should not be distributed to the victims

   (D) None of the above

4. The shape of environmental Kuznets curve is —

   (A) U shaped

   (B) Straight line

   (C) Inverted U shaped

   (D) Upward rising

5. "Tragedy of commons" problem can be solved —

   (A) By property defined property rights

   (B) By imposition of prohibitive tax on the users

   (C) By restricts the numbers of users

   (D) All of the above

   ————

Turn Over

P - III (1+1+1) H / 18 (N)

2018

ECONOMICS (Honours)

Paper Code : VIII-B

[New Syllabus]

Full Marks : 90   Time : Three Hours Thirty Minutes

The figures in the margin indicate full marks.

Group - A

[Environmental Economics]

Section - I

[Short Essay Type Questions]

Answer any *two* questions.   10×2=20

1. (a) What are the common property resources ?

   (b) What do you mean by tragedy of commons ?

2. (a) How the Pigouvian tax for controlling environment pollution is determined ?

   (b) Is it possible to use a quantity restriction two achieve the same outcome ?   7+3

3. State the Coase theorem. Describe how the allocation of property right to the polluters solves the environmental externality problem ?   3+7

4. (a) State some causes for the environmental damages which are not related to emissions.

(b) Using production possibility curves explain how does the choice of environmental quality for present generation affect the future generation.   5+5

Section - II

[Essay Type Questions]

Answer any *one* question :   20×1=20

5. (a) Explain with suitable diagrams the model of the emission charge for

     (i) a single polluter case

     (ii) a two polluter case

   (b) Explain how trading of emission permits in a competitive market can implement the social optimum with respect to pollution.   8+12

6. (a) Discuss the non rivalness and non excludability characteristics of public goods.

   (b) How do these two characteristics present the attainment of the allocative efficient competitive market equilibrium ? Explain in brief.

   (c) How can allocative efficient equilibrium in the market for a specific public good be achieved ?   5+8+7

Group - B

[Essay]

Write an essay on any *one* of the followings   50×1=50

7. Principles of Taxation.

8. Correlation and Regression Analysis.

Turn Over

9. Theory of consumer behaviour.

10. Monetary policy and economic growth.

11. Green Revolution in India.

12. SEZ in India.

13. Classical theory of international trade.

14. Inflation in India.

15. Formal and Informal Labour market of India.

16. Economic Inequality with special reference to India.

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Turn Over

(7)