

- (b) (i) Derive the mean and variance of the Poisson distribution.
- (ii) State some real life examples of Poisson distribution. 7+3
- (c) (i) Clearly explain the terms level of significance and power of the test.
- (ii) Find the values of test-statistic for testing  $H_0: \mu = 18.2$ ;  $H_1: \mu > 18.2$ ; given  $\delta=2.1$ ;  $n=15$ ;  $\bar{x} = 18.83$  6+4
- (d) Write some important properties of a standard normal variable. Assume the mean height of soldiers to be 68.22 inches with a variance of 10.8 sq. inches. How many soldiers in a regiment of 1000 would you expect to be over 6 ft. tall? (Given that the area under the standard normal curve between  $x=0$  and  $x=0.35$  is 0.1368 and between  $x=0$  and  $x=1.15$  is 0.3749). 5+5
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Total Pages - 6

UG/3rd Sem/ECO(H)/T/19

2019

B.Sc.

3rd Semester Examination

**ECONOMICS**

**(Honours)**

**Paper - SEC 1-T**

Full Marks : 40

Time : 3 Hours

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

**DATA ANALYSIS**

**Group-A**

1. Answer any *five* from the following questions :

5×2=10

(a) Distinguish between complete enumeration  
and sample survey. 2

(b) What are attributes? Give suitable examples. 2

- (c) Distinguish between continuous and discrete variables. 2
- (d) What are the different types of sampling process? 2
- (e) Name the organization which publishes foreign trade statistics. 2
- (f) Write the full forms of these Govt. wings : 2  
(i) CSO (ii) NEETI AYOOG
- (g) What do you mean by NIC? 2
- (h) Write different publications of RBI. 2

**Group-B**

2. Answer any *four* from the following questions :

4×5=20

- (a) What is dispersion? What are the different measures of dispersion? 2+3
- (b) How do you construct a pie diagram? Explain the steps only.
- (c) What are the main sources of monetary data in our country? Are they primary or secondary in nature? 5

( 3 )

- (d) Find the missing frequency, the mean and median from the following table : 5

Class interval	Frequency
80-99	19
100-119	50
120-139	?
140-159	62
160-179	7

Given the mode = 131.81

- (e) Distinguish between the methods of simple random sampling with replacement (SRSWR) and without replacement (SRSWOR). 5
- (f) What are the logic behind the transformation of data into logarithmic format. 5

### Group-C

3. Answer any *one* from the following questions :

1×10=10

- (a) Name different sources of Indian data. Discuss any one of them in detail. 4+6
- (b) Draw an ideal table. What are its different component? How do you interpret the table, which is cross section in nature. 5+3+2

## Contemporary Economic Issues

### Group-A

1. Answer any *five* from the following questions :

5×2=10

- (a) What is meant by “double taxation” of savings? 2
- (b) Explain the concept of horizontal equity under the ability to pay principle of taxation. 2
- (c) Distinguish between non-rivalry and non-excludability property of a public good. 2
- (d) What are the merits of the value added tax? 2
- (e) How does an internally held public debt differ from an external public debt? 2
- (f) Distinguish between cyclical deficit and structural deficit. 2
- (g) What is “spite-effect”? 2
- (h) What are the problems of taxing capital gain? 2

( 5 )

**Group-B**

2. Answer any *four* from the following questions :

4×5=20

- (a) Under what conditions the value of Balanced Budget Multiplier is more than one or equal to one? 5
- (b) Do you support the traditional argument that the income tax cannot be shifted? Discuss. 5
- (c) Clearly show and explain the position of Lindahl equilibrium. 5
- (d) Analyse the effect of savings a proportional income tax and equal yield expenditure tax upon. 5
- (e) What do you mean by progressive system of taxation? 5
- (f) Define budget. Explain the concept of Zero-base budgeting. 2+3=5

[ Turn Over ]

Group-C

3. Answer any *one* from the following questions :

1×10=10

(a) Do you think that an indirect tax necessarily imposes an excess burden as compared with a direct tax? Give reasons for your answer.

10

(b) Do you support the Ricardian view of government debt? Explain with arguments.

10

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