

**DEPARTMENT OF DISTANCE EDUCATION
PUNJABI UNIVERSITY, PATIALA
RESPONSE-SHEET FOR INTERNAL ASSESSMENT**

ROLL NO.....

ECONOMICS

**B.A. PART-II (SEMESTER-III)
ACADEMIC SESSION : 2016-2017**

Date of receipt of the lesson.....

Marks obtained.....

Date of submission of Response
Sheet by the student.....

Date & Signature of the
examiner.....

No. of pages attached.....

Write your name and address
below in BLOCK LETTERS

Date of receipt in the Department.....

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Mobile No.....

Max. Marks : 25

Response Sheet No. 1

Attempt any one questions :

1. Define multiplier. Discuss its working and limitations.
2. Discuss in detail Keynesian theory of Income and Employment.
3. What do you understand by Public Finance? Account for the growing importance of Public Finance in recent times.
4. Make a case for Progressive tax system.
5. Clearly explain the various canons of taxation.

Response Sheet No. 2

Write any five short notes on the following :

- a. Investment
- b. MPC
- c. Dynamic multiplier
- d. MEC
- e. Importance of Consumption function
- f. Define Public Finance.
- g. What is a tax?
- h. Distinguish specific and ad-valorem taxes.
- i. Compare Public Expenditure and Private Expenditure.
- j. Give five Features of good tax system.

Note :

Please submit Response sheets by November 15, 2016 in the Department, either by hand, or through speed post. Please keep receipt of submission (by hand) or postal receipt with you as proof of submission.

Please send this Response-sheet alongwith your answers to : The Deputy Registrar, Department of Distance Education, Punjabi University, Patiala-147002

**DEPARTMENT OF DISTANCE EDUCATION
PUNJABI UNIVERSITY, PATIALA
RESPONSE-SHEET FOR INTERNAL ASSESSMENT**

ROLL NO.....

**PSYCHOLOGY
EXPERIMENTAL PSYCHOLOGY**

**B.A. PART-II (SEMESTER-III)
ACADEMIC SESSION : 2016-2017**

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Time : 1 hr.

Max. Marks : 20

Response Sheet No. 1

Note : Candidate can attempt any two long answer questions (7marks each) and three short answer questions (2 marks each).

- Q.1. Write a detailed note on the experimental method.
- Q.2. What is a Variable? Explain different types of Variables.
- Q.3. Discuss the nature of Memory.
- Q.4. Explain the Various methods of measuring retention.
- Q.5. Discuss the causes of forgetting.
- Q.6. Discuss the differences between Classical and Instrumental Conditioning.
- Q.7. Enumerate the factors affecting learning.
- Q.8. Write the Characteristics of Normal Probability curve in detail.

Response Sheet No. 2

**Candidate can attempt any three questions. Each question carries 2 marks.
(3 x 2 = 6 marks)**

Write short notes on the following :

- (a) Define Hypothesis
- (b) Qualitative Variable
- (c) Short term memory
- (d) Encoding
- (e) Chunking
- (f) Unconditioned Response
- (g) Law of Effect
- (h) Generalization
- (i) Spontaneous Recovery
- (j) State the application of Chi Square.

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Roll No.....

**B.A. PART-II(SEMESTER-III)
ACADEMIC SESSION : 2016-2017**

HISTORY-PAPER (A)

Date of receipt of lesson..... Marks obtained.....%
Date and signature of the
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Date of submission of Response Write your name and address below in
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No. of pages attached.....
Date of receipt in the
Department.....

Mobile num.....

Time : 1 hour

Max. Marks : 25

Response Sheet No.1

Attempt any one Question :-

1. What were the causes of the downfall of Mughals?
2. Discuss the reforms of Lord william bentick?
3. Discuss about the land revonue system under British?
4. What were the causes of the revolt of 1857?
5. Examin the causes of the rise of socio-religious movements in India?
(1x15=15 marks)

Attempt any two Questions :-

- | | |
|-------------------------|-------------------------|
| (i) Ali Brothers | (vi) Raja Ram Mohan Roy |
| (ii) Mohd.Shah Rangeela | (vii) Ghadar Movement |
| (iii) Battle of Plassey | (viii) Lord Curzon |
| (iv) Bahadur Shah Zafer | (ix) Brahmo Sanaj |
| (v) Arya Samaj | (2x5=10 marks) |

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Roll No.....

**B.A. PART-II(SEMESTER-III)
ACADEMIC SESSION : 2016-2017**

**MATHEMATICS: PAPER-I
ADVANCED CALCULUS**

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Mobile No.....

Time : 30 Minutes

Max. Marks = 14

Response Sheet No.1

Long-Answer Type Questions : (Marks = 8)

Attempt any one Question :-

- 1) State and prove Euler's theorem of homogeneous functions.
- 2) State Taylor's theorem for functions of two variables. Use it to expand $x^2y + 3y - 2$ in powers of $x-1$ and $y+2$.
- 3) Find the maximum and minimum value of $x^2 + y^2$ subject to the condition $3x^2 + 4xy + 6y^2 = 140$.
- 4) Compute the integral $\iiint_V xyz dx dy dz$ over a domain bounded by $x=0, y=0, z=0, x+y+z=1$.
- 5) Change the order of integration and evaluate the integral : $\int_0^{4a} \int_{x^2/4a}^{2\sqrt{ax}} dy dx$.

08x01=08

Response Sheet No.2

Short Answer Type Questions : (Marks = 6)

Attempt any three questions from the following:

- 1) Use definition to show that $\lim_{(x,y) \rightarrow (1,2)} xy = 2$.
- 2) State Young's theorem.
- 3) Prove that $u = e^x + \log y + xyz, v = \log x + e^y + xyz$ are not functionally dependent.
- 4) Define definite and indefinite functions with suitable examples.
- 5) If $z = \tan^{-1}\left(\frac{x^3 + y^3}{x - y}\right)$, show that $x \frac{\partial z}{\partial x} + y \frac{\partial z}{\partial y} = \sin 2z$.
- 6) Prove that the volume of the ellipsoid $\frac{x^2}{a^2} + \frac{y^2}{b^2} + \frac{z^2}{c^2} = 1$ is $\frac{4f}{3} abc$.
- 7) Using double integration, find the area enclosed by the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$.
- 8) Find the moment of inertia of a square region of unit density about one of its sides, the side being $2a$.
- 9) Define moment of inertia in \mathfrak{R}^2 .
- 10) Write the formulae for calculating centre of gravity and centroid in \mathfrak{R}^3 .

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**B.A. PART-II(SEMESTER-III)
ACADEMIC SESSION : 2016-2017**

**MATHEMATICS: PAPER-II
ANALYSIS-I**

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Sheet by the Student.....

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Mobile No.....

Time : 30 Minutes

Max. Marks = 14

Response Sheet No.1

Long-Answer Type Questions : (Marks = 8)

Attempt any one Question :-

- 1) If $f(x) = 2x + 3$, show that $f \in R(x)$ on $[0,2]$ and $\int_0^2 f(x)dx = 10$.
- 2) State and prove fundamental theorem of integral calculus.
- 3) Evaluate $\int_0^{f/2} \log \sin x dx$.
- 4) If $\vec{F} = (2x^2 + y^2)\hat{i} + (3y - 4x)\hat{j}$, evaluate $\int_C \vec{F} \cdot d\vec{r}$ around the triangle ABC whose vertices are A(0,0), B(2,0) and C(2,1).
- 5) If $\vec{F} = 4xz\hat{i} - y^2\hat{j} + yz\hat{k}$, evaluate $\iint_S \vec{F} \cdot \vec{n} ds$ where S is the surface of the cube bounded by $x=0, x=1, y=0, y=1, z=0, z=1$. (1)

Response Sheet No.2

Short Answer Type Questions : (Marks = 6)

Attempt any three questions from the following:

1) Evaluate $\int_0^5 [x] dx$, where $[x]$ stands for greatest integer less than or equal to x .

2) Evaluate $\int_0^{\pi/2} \frac{\sqrt{\cos x}}{\sqrt{\cos x} + \sqrt{\sin x}} dx$.

3) Define the oscillatory sum.

4) Give an example of bounded function which is not R-integrable over $[0,1]$.

5) State Gauss divergence theorem.

6) State Green's theorem in a plane.

7) Find constants 'a' and 'b' so that the surface $ax^2 - byz = (a+2)x$ is orthogonal to the surface $4x^2y + z^3 = 4$ at $(1,-1,2)$.

8) Define curl of a vector point function. Hence, define the irrotational vector.

9) Prove that $\text{div} \hat{r} = \frac{2}{r}$.

10) Prove that $\oint_C \vec{r} \cdot d\vec{r} = 0$.

02x03=06

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STUDENT'S RESPONSE-SHEET

ROLL NO.
B.A. PART-II
SEMESTER-III

SOCIOLOGY

ASSIGNMENT/RS. II

Date of receipt of the lesson
Date of submission of Response-Sheet by
the Student
No. of pages attached

Marks obtained
Date and Signature of the
Examiner.....
Write your name and address
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Date of receipt in the Department

Time Allowed : 1 Hour

Max. Marks : 15

Note: Attempt one major question and two short questions. Major question is of eleven marks while short questions are of two marks each.

1. Explain the Institution of Marriage and its types.
2. What do you mean by Gender Discrimination. Discuss Causes and Consequences responsible for it.
3. Write an Essay on Rural Social Organization

Short Questions :

- (a) Family
- (b) Sex Ratio
- (c) Tribe
- (d) Social organisation

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STUDENT'S RESPONSE-SHEET

ROLL NO.
B.A. PART-II
SEMESTER-III

SOCIOLOGY

ANSWER SHEET NO. 1

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Time Allowed : 1 Hour

Max. Marks : 15

Note: Attempt one major question and two short questions. Major question is of eleven marks while short questions are of two marks each.

1. What do you mean by social Stratification? Discuss its types
2. Write an essay on Marx's theory of Social stratification
3. Explain the changing patterns of caste system and discuss factors responsible for it.

Short Questions :

- (a) Bases of stratification
- (b) Differentiation
- (c) Caste
- (d) Social Class