

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

Roll No.....

**B.A. PART-I(SEMESTER-1)
ACADEMIC SESSION : 2016-2017**

**MICRO ECONOMICS AND
INDIAN ECONOMY**

Date of receipt of lesson.....

Marks obtained.....%

Date and signature of the
Examiner.....

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

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Mobile no.....

Time : 1 hour

Max. Marks : 25

Response Sheet No.1

Long-Answer Questions : (Marks : 10)

Attempt any one Question :-

1. Critically examine Robbin's definition of Economics.
2. What do you mean by the term price elasticity of demand ? Discuss various methods of measuring price elasticity of demand.
3. What are Indifference Curves ? Discuss the properties of indifference curves.
4. Explain in detail the Law of Variable Proportions.
5. Discuss the features of Indian economy on the eve of independence .
6. Critically examine the Industrial Policy of 1991.
7. Discuss in detail the problems of Small Scale Industries.
8. What do you understand by Green Revolution ? Discuss its benefits and harmful effects.

(1x10=10 marks)

Response Sheet No.2

Short-Answer Questions : (Marks :15)

Attempt any Five Questions :-

write brief notes on ;

- (i) Law of demand
- (ii) Cardinal utility
- (iii) Consumer surplus
- (iv) Production function
- (v) Definition of small scale industries
- (vi) New Agricultural Strategy
- (vii) Definition of Public Sector
- (viii) Impact of Green Revolution on environment
- (ix) Definition of Private Sector
- (x) Long period

(5x3=15 marks)

NOTE :

Please submit Response sheets by November 15, 2016 in the department , either by hand , on 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***

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(RESPONSE-SHEET FOR INTERNAL ASSESSMENT)**

Roll No.....

B.A. PART-I(SEMESTER-1)

ACADEMIC SESSION : 2016-2017

HISTORY : PAPER-A

HISTORY OF INDIA

UPTO 1000 A.D.

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Time : 1 hour

Max. Marks : 25

Response Sheet No.1

Long-Answer Questions : (Marks : 15)

Attempt any one Question :-

1. Give in detail what do you know about Indus Vally Civilization.
2. Describe the Political, Social, Economic and Religious life of the Rig Vedic People.
3. Give in detail the life and techings of Mahatma Buddha.
4. Trace out the teachings of Mahatma Mahavir.
5. Why is the Gupta era called as 'The Golder Age' of Indian History? Explain.

(1x15=15 marks)

Response Sheet No.2

Short-Answer Questions : (Marks :10)

Attempt any Two Questions :-

write brief notes on ;

- (i) Arthsastra
- (ii) Fahien
- (iii) Texila
- (iv) Buddhisatva
- (v) The Cholas
- (vi) Chand Bardai
- (vii) Ashoka
- (viii) Mauryan Empire
- (ix) Harsha
- (x) The Rajputs

(2x5=10 marks)

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Roll No.....

**B.A. PART-I(SEMESTER-1)
ACADEMIC SESSION : 2016-2017**

**MATHEMATICS: PAPER-I
CALCULUS**

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Examiner.....

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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 Leibnitz's theorem for obtaining nth derivative of product of two functions.

- 2) Evaluate $\int_0^{\pi/2} \sin^n x dx$, where n is a positive integer.

- 3) Discuss the convergence of the integral $\int_1^2 \frac{dx}{(x-1)^{1/2}(2-x)^{1/3}}$.

- 4) Find the position and nature of the double points on the curve $(x-2)^2 = y(y-1)^2$.

- 5) Find the whole length of the curve $x^{2/3} + y^{2/3} = a^{2/3}$.

080108

Response Sheet No.1

Short-Answer Type Questions : (Marks = 6)

Attempt any three Question :-

Attempt any three questions from the following:

- 1) Prove that $\frac{B(m, n+1)}{n} = \frac{B(m, n)}{m+n} = \frac{B(m+1, n)}{m}$.
- 2) Write down the value of $\int_0^{\pi/2} \sin^4 x \cos^6 x dx$.
- 3) Define rectangular asymptote and oblique asymptote.
- 4) If $f(x) = \tan x$, show that $f^{(6)}(0) = 16$.
- 5) Find the radius of curvature for the curve : $3x^2 + 4x^3 - 12y = 0$.
- 6) Evaluate $\int \frac{dx}{5 + 4 \cosh x}$.
- 7) Find the area bounded by the lines $y=x$, $x=-1$ and $x=1$.
- 8) Show that $\int_0^{\infty} e^{-x^2} dx = \frac{\sqrt{f}}{2}$.
- 9) Using Dirichlet's test, examine the convergence of $\int_e^{\infty} \frac{\log x \sin x}{x} dx$.
- 10) Find a reduction formula for $\int \frac{x^m}{(\log x)^n} dx$.

03x02=6

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Roll No.....

**B.A. PART-I(SEMESTER-1)
ACADEMIC SESSION : 2016-2017**

**MATHEMATICS: PAPER-II
DIFFERENTIAL EQUATIONS**

Date of receipt of lesson.....

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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) Solve the differential equation : $\frac{dy}{dx} + x \sin 2y = x^3 \cos^2 y$.
- 2) Solve the differential equation : $\frac{d^3 y}{dx^3} - 5 \frac{d^2 y}{dx^2} + 7 \frac{dy}{dx} - 3y = e^{2x} \cosh x$.
- 3) By using the method of variation of parameters, solve the differential equation :
 $\frac{d^2 y}{dx^2} + 4y = 4 \tan 2x$.
- 4) Solve the following differential equation : $(x^2 D^2 - xD + 4)y = \cos(\log x) + x \sin(\log x)$.
- 5) Solve in series the following differential equation : $(x^2 D^2 + xD + (x^2 - 1))y = 0$.

Response Sheet No.2

Short-Answer Type Questions : (Marks = 06)

Attempt any Three Questions :-

- 1) Solve the differential equation : $\sec^2 x \tan y dx + \sec^2 y \tan x dy = 0$.
- 2) Solve $\frac{dy}{dx} = \frac{x - 2y + 5}{2x + y - 1}$.
- 3) Solve $y'' - 3y' + 2y = 0$, $y(0) = y'(0) = 0$.
- 4) Show $\int_0^x x^{n+1} J_n(x) dx = x^{n+1} J_{n+1}(x)$.
- 5) Write Rodrigue's formula and derive Legendre's polynomials $P_0(x)$, $P_1(x)$ and $P_2(x)$ from it.
- 6) Prove that $\int_{-1}^1 x P_{n-1}(x) P_n(x) dx = \frac{2n}{4n^2 - 1}$.
- 7) Describe in brief the Power series method for solving differential equation in series.
- 8) Solve $(D^2 - 1)y = x \sin x$.
- 9) Evaluate $\frac{1}{D^2 + 2}(x + 1)^2$.
- 10) Discuss the concept of ordinary and singular points, in case of 2nd order homogeneous linear differential equation.

03×02=06

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Roll No.....

**B.A. PART-I(SEMESTER-1)
ACADEMIC SESSION : 2016-2017**

**MATHEMATICS: PAPER-III
CO-ORDINATE GEOMETRY**

Date of receipt of lesson.....

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Time : 30 Minutes

Max. Marks : 14

Response Sheet No.1

Long-Answer Type Questions : (Marks : 8)

Attempt any one Question :-

- 1) Prove that locus of middle points of the normal chords of the parabola $y^2 = 4ax$ is $\frac{y^2}{2a} + \frac{4a^3}{y^2} = x - 2a$.
- 2) Find the locus of the middle points of chords of an ellipse which subtend a right angle at the centre.
- 3) Tangents are drawn from a point $(-2,-1)$ to the hyperbola $2x^2 - 3y^2 = 6$. Find their equations and the angle between them.
- 4) Prove that area of the triangle formed by any tangent to the hyperbola $x^2 - y^2 = a^2$ and its asymptotes is constant.
- 5) Prove that the equation $x^2 + 2xy + y^2 - 2x - 1 = 0$ represents a parabola. Find its focus, latus rectum and directrix. Also, trace the curve.

Response Sheet No.2

Short-Answer Type Questions : (Marks : 06)

Attempt any Three Questions :-

- 1) Show that the equations $x^2 + 2\sqrt{3}xy + 3y^2 - 3x - 3\sqrt{3}y - 4 = 0$ represent a pair of parallel straight lines.
- 2) Define conic alongwith its focus, eccentricity and directrix.
- 3) Find the equation of tangent and normal to $y^2 = 6x$ at the point $(8/3, 4)$.
- 4) State and prove the reciprocal property of parabola.
- 5) Define director circle and write down the equation of director circle of the ellipse $16x^2 + 9y^2 = 144$.
- 6) Find the pole of the line $x - 2y + 3 = 0$ w.r.t the ellipse $3x^2 + 4y^2 = 12$.
- 7) State and prove the diameter property of an ellipse.
- 8) Define rectangular hyperbola and derive its equation.
- 9) Find the points of intersection of the line $y = mx + c$ with the hyperbola $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$.
- 10) Transform the equation $x^2 - 2xy + y^2 + x + y = 0$ to an equation in which xy term is absent. (03×02=06)

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**DEPARTMENT OF DISTANCE EDUCATION
PUNJABI UNIVERSITY, PATIALA**

STUDENT'S RESPONSE-SHEET

ROLL NO.
B.A. PART-I
SEMESTER-I

SOCIOLOGY

ANSWER SHEET NO. II

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

Marks obtained
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Write your name and address
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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 Socialisation? Discuss its agencies
2. What is culture? Bring out the difference between Material and Non
Material Culture
3. Explain Freud's concept of Development of Self.

Short Questions :

- (a) Name Process of Socialisation
- (b) What is Cultural Lag?
- (c) Difference between Culture and Civilization
- (d) Looking- glass self.

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PUNJABI UNIVERSITY, PATIALA**

STUDENT'S RESPONSE-SHEET

ROLL NO.
B.A. PART-I
SEMESTER-I

SOCIOLOGY

ANSWER SHEET NO. 1

Date of receipt of the lesson
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the Student
No. of pages attached

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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 Sociology? Discuss its Nature
2. What is Social Structure? Discuss its elements
3. Define the Meaning of Community and Association and Bring out the difference between them.

Short Questions :

- (a) Society
- (b) Social organisation
- (c) difference between Norms and Values
- (d) Social Role

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

ROLL NO.....

**PSYCHOLOGY -PAPER- A
GENERAL PSYCHOLOGY**

**B.A. PART-I (SEMESTER-I)
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).

Attempt any two questions from the following and each question carries 7 marks (total weightage 7+7=14)

- Q.1. Discuss the various branches of psychology in detail.
- Q.2. Explain if Psychology is a "Science".
- Q.3. Discuss the nature of learning.
- Q.4. Explain Trial and Error method of learning in detail.
- Q.5. Explain the various methods of personality assessment.
- Q.6. Write a detailed note on the factors affecting personality.
- Q.7. Critically evaluate Psychoanalytical theory of Freud.
- Q.8. Explain the various measures of Central tendency and also write utility.

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) Survey Method
- (b) Structuralism
- (c) Developmental Psychology
- (d) Phallic Stage
- (e) Law of exercise
- (f) Thematic Apperception Test
- (g) Id
- (h) Standard Deviation
- (i) Source traits
- (j) Case study method

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RESPONSE-SHEET FOR INTERNAL ASSESSMENT

Roll No.

Student Mobile No.....

B.A. PART-I

ACADEMIC SESSION : 2016-2017

PSYCHOLOGY : PAPER-I

UNIT NO. III

LESSON NO. 6-8

RESPONSE-SHEET NO. 3

Date of receipt of the lesson.....

Marks obtained.....%

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by the student.....

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Time Allowed : 1 Hour 40 Minutes

Max. Marks : 40

Note : Attempt any four questions out of 5. Question No. 6 is compulsory .

1. Give the nature of Personality.
2. Write a detailed note on the factors affecting personality.
3. Explain Freuds theory of Personality.
4. Write a note on the "Projective Method" of personality assessment.
5. Write short notes on the following :
 - (i) Ectomorphs (iii) Phallic Stage
 - (ii) Super ego (iv) Cardinal trait

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ACADEMIC SESSION : 2016-2017

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**PSYCHOLOGY-PAPER- I
GENERAL PSYCHOLOGY
LESSON NO. 9-11
UNIT NO. IV
RESPONSE SHEET NO. 4**

Marks obtained.....

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Attempt any four questions. Question number 5 is compulsory.

1. Explain the steps for calculating Mean & Median for Grouped data.
2. Find out Median from the following data.

Scores	f
60-65	1
65-70	4
70-75	3
75-80	2
80-85	5
3. Find out standard Deviation.

Scores	f
70-75	2
75-80	1
80-85	3
85-90	6
90-95	4
4. What is Variability? Explain various methods of variability with formulas.
- 5. Write short notes**
 - (a) Formula for calculating mode (b) Histogram
 - (c) Ogive

Subject : Political Science
Session : 2016-2017
Max. Marks 30

Class : B.A. Part-I
(Semester-I)

Response Sheets for Internal Assignment

Long Questions

Attempt any one of the following questions **1 x 20 = 20**

1. Define Political Science and discuss its nature and scope.
2. Which are the main distinctions between Political Science and Political Theory.
3. Discuss the Socialist Theory about the Functions of the State.

Short Questions

Attempt any two of the followings questions **2 x 5 = 10**

1. Define state and Discuss its elements.
2. Distinction between Sociology and Political Science.
3. Discuss the Social Contract theory of the origin of State.
4. Discuss the Liberal Theory of State.
5. Discuss the Marxian Theory of State.