



PANJAB UNIVERSITY, CHANDIGARH-160014 (INDIA)

Est. n r t n n r s t A t o n t t G o t o n

SYLLABI

FOR

B.A. B. GE E A EC D YEA
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 EXA. A

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Third Semester : November/December, 2020

Fourth Semester : April/May, 2021

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Sr. No. Particulars

Page No.

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ot : In case of private candidates and students of University School of Open Learning, the marks obtained by them out of 40 will be proportionately increased out of 50).

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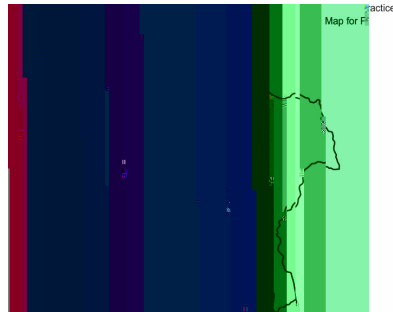
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n n F *History of the Punjab* o n n rs i

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G opr r *A Social, Cultural & Economic History of India* o n
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The examiner will set ten different lines with an instruction to identify the figure(s) of speech in each sentence. The sentences should be examples of different figures of speech as mentioned above. The students are required to answer all. There will be no choice.

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(The examiner will set an unseen passage of about 1000 word for comprehension. The passage will be followed by 5 questions to be answered in not more than 20-30 words each.)

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F o r s n s r o o r n E p o n D h i

r E r "Text Book of Preventive and Social Medicine", i h E o n i B n r s D s s
B n o p r n

r r o "Anatomy and Physiology for Physical Education Assistant Professors", n E r
A r n o i

o n n r n "A Review of Occupational Health Research in India", C h
D h i

o s o n "Foundations of Anatomy and Physiology", h E o n i i p r n n i
n r r h "Complete Guide to Sports Injuries", F r s n n E o n i r o p o n B o o
C o D h

p h h s r B "Human Anatomy & Physiology", F r s E o n i B r
o n s D h

i n h A r "Modern Text Book of Physical Education, Health and Sports", n s r s
h n

i i h n F h r "Rehabilitation and Remedial Exercise", B r h n n C o
o n o n i

i r A n n "The Complete Book of Yoga : Harmony of Body and Minds", r n p r B h
D h i

i o r h E n D s "Preventive and Corrective Physical Education", h r E o n i
o n r s s C o h Y o r

i h n n "Kaivalyadhama", o n B o i

i h n r r p "A Teacher's Guide for Beginning Yoga", F r s E o n i F o n o n s
h n n s n A

i o r h r n s o n "Health Hazards of the Human Environment", n i

ED CA

B A GE E A EC DYEA EXA A
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p r YCH G CA F DA FED CA

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or
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o rs

GE E A C F HE A E E E
q s on p p n ons s o n s n n n n n o
q s ons ro n r sp n o s s n n r r s n n ons s o
t or n r p q s ons n n o r n n r s s n or n n r r
r s s n s r r q r o p or n r p q s ons o o n n n n
o p sor q s on p p r o pr r n n s on o r s or s q s ons
o on n q s on r r s or s or n r or s or n s n
or s or n or r q s on n n

C F HE CA D DA E
s n r q r o p on q s on n ro n s n n n
o p sor n s r r q r o p or n r p q s ons o o n n or s
or s or n n n or s or or n r p q s on n n
t s

Do n s n s on rs n n p rsp ro s o n r n n ron n n
on op no n
Do n s n s on rs n n on p o p rson n sp n E on
Do n s ns n n on p o p E on n sp n so n
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- o o n on
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Do r C p n s Con p n r s
os r ro nn n A n s r on ppr ss on
A n s n o n r A E on o rn n n on o rn n
o r sp s on A E on

r pr on n nn n o A E on ro r s Con n n E on r n ss
n r n ro r s D op n n n n r s ro r s
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Boo s o n i

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BA GE E EC DYEA EXA A

E E E

G n r nstr t ons

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E p n o n p Bo B n r n
n o n s o s n o m r o

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Boo s n i

i Sangeet Visharad

Rag Parichaya Part II

Sangeet Kaumudi Part IV (Punjabi)

Hamare Sangeet Ratna

Sangeet Sar Part II

Kramik Pustak Malika Part I to IV

Rag-Vigyan Part I to VII

Sangeet Shastra Vigyan

n h s

n r s hr s

C r s n n r h n i o h

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E E E

G n r nstr t ons

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m ss ss n o h pr n on h propo on n r s

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r on no s o p n n n o s h r on n s h
s n n A n rs

n n o s on h ns r n s or

n n so ns r n s h or o s

h s n n h s s o p p r s r n h or h s s pr s r or h pr p p r
o so o s n or D n Br n h

n nine q s ons s q s on p p r no n s Fo r n s
on n o q s ons h n h n s r r q r o p o r q s ons s n s
on q s on ro h n n nt q st on o nt s o p sor t ons sts o s ort
ns r q st ons o r n n tr s s t or n pr t o t o st nts
to tt pt q st ons o r s

p r A HE o r on r s
D r t on n t s pr t or pro spr

p r B r t n s r on r s

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s A r h n h
s F h n h
n r h r

nt

i D s r p on n o ons o h pr s r s n P s
r nno on r h n n on o h pr s r o h s s Br
B p s
r nno on h n n pr s r r o h s s
r h no ons o P s oop P

Boo s n

i Sangeet Visharad

n r r s



Rag Parichaya Part II

C r s n r i s i s i






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Boo s  n i




i *Sangeet Visharad*

n r   hr s



Rag Parichaya Part II

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


Sangeet Kaumudi Part IV (Punjabi)

r r p   n n  rs 

Hamare Sangeet Ratna

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Sangeet Sar Part II

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B A / B E E A EC D YEA E E DE Y DE / Y AB

C nstr nt

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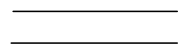
E E E

G n r nstr t ons

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rn ss ss n o n pr n on n propor on n r s

n r o p o ns ns non s on n pr ss

n r s o no or n ns ns n



BA/B E E A EC D YEA E E E Y E I Y AB

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i A o n n n n r n r r s
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D n ons n p n ons o n s r s no or n i or s
p n n n s Z r n n

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i Br s n so r s rso s n n r onr ons
s
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Books

Sangeet Visharad

n r s

Rag Parichaya Part II

C r s n n r s n i o

Sangeet Kaumudi Part IV (Punjabi)

r r p s n n rs

Hamare Sangeet Ratna

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Sangeet Sar Part II

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A n n r C

Kramik Pustak Malika Part I to IV

B n n r s

Rag-Vigyan Part I to VII

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Sangeet Shastra Vigyan

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E E E ♪

G n r nstr t ons,

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rn ss ss n o ♪ pr n on ♪ propo r on n r s
n n n q s on ♪ s ro ♪ n o s so s r ♪ q s on p p ♪
no n s Fr s or n s on n q s on s o o ♪ ♪ ♪ n s r o
p on q s on ro ♪ n n s o p sor on s s o i ♪ or n r q s on s
o r n n r s s ♪ or n pr o o ♪ ♪ s n s ♪ o p q s on s
r on / r n ♪ o p / ♪ r o ron ♪ n ♪
or pr n on
r p r ♪ s ro ♪ s s or p r B r

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B A GE E A EC D YEA EXA A B S B S

B A / B

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EC

D YEA

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DEE

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s n n C ss D n

BA GE E EC DYEAE EXA A I I I I

E E E

G n r nstr t ons

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rn ss ss n o n pr n on s propo on n r s
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r o no or n n s ns n or pr n on
o ron nsr n or npr n on
n n D n s on n o s
n n so nsr n s n D n
n s n n s s o p p r s r n n or n s s p r s r or n pr p p r
so so s n
n n n q s ons s q s on p p n no n s Fo r n s
on n o q s ons n n n s r r q r o p o r q s ons s n s
on q s on ro n n n n q s on o n s o p sor ons s s o i or
n r q s ons o r n n r s s n or n pr o n n s n s n o
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HE r on n o r s r s

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nW o r n nsr ns s n n D n

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i o ono n Bo n r nE nD n n n n r s nA n n
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n o E nE nD n n C n r n n n n n r n A

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An Appro n o n n Ar on B r n n rs G n n i
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History of Art, s son on on i
Art Through the Ages, r o r Br Co A i i
The Story of Art, on r ss W Yor i
The Dictionary of Art, n rs W Yor
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Heritage of Indian Art, ons D s on n s r o
n or on Bro s n o o n D W i
Indian Art

B A / B E E A EC D Y E A E E Y E i Y AB

A C E D A H C A CHAE GY

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3

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F r FC Ar n n s or D C po r ss Yor i
F r FC Con o r E r po oo r r Br n i

B A/B E E A EC D YEA E E DE Y DE i Y AB

D s A *Social Background of Indian Nationalism* n n rs on B r
n
n B *Making of a Nation: India's Road to Independence,* i o i i i n i

B A / B E E A EC D Y E A E E E E Y E i Y AB

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F H E A E E A D C A D D A E .

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o n n n i q s o n s s p r o r h o s s o n s r n o o r s
n E n s r r q r o p n q s o n s r r n i r s
r s o h s o h p p r o n n s E n q h o s s p
q s o n s n h n q n n r n

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o m n po s n pro ss s n n o n nr n s s

GE E F HE A E E A DCA D DA E .

The syllabus has been divided into four units :

r q s ons n rs q s on s o p sor n or ns r p
on n n i or q s ons spr o r h ho s s o ns r n o i
or s n i i i n i i i i i i i

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Pure Theory of International Trade : C ss n s r n or s or o
pro D n

Terms of Trade : Con p n p s

Commercial Policy : Fr p s ro on on B o s A EA AFA ro s n prosp s
p o p on ss D op Co n r s

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Balance of Payments: n n Con p n Co pon ns o B n o ns D s q r n
B n o ns C s s n s r s o orr

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F HE A E E D CA D DA E

The syllabus has been divided into four units.

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p on n n i or q s ons spr o r n o s s n o n r n o o
or s n sr q r o p n or n r p q s ons rso

Books

i Ar n C n ps i

An Introduction to a Mathematical Treatment of Economics, En n Boo o

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s or B s n E ono s

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Business Mathematics, n n ons

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For n p r s n s r q r o p q s ons n s on o
o p sor o prsn o i or n r p q s ons o r s n o r

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For r n p p s ns r q r o p q s ons n s on o
o p sor o pr sn o i or n r p q s ons o r s n o r
n r s s s ns r r q r o p or n r p q s ons o o i
i r s
n on o s on os o X ons s o on n r ss p q s ons o
q s ons ro n n n n o r n i r s n r s

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nt

or C s s o or n s r s or pro n
 Corr p on n A n s r on C s s n s
 A n s r Fr n s n n P s A n s n D s n s

Ess nt n s

D r i Personnel Management and Industrial Relations. D n s rs
 o Public Personnel Administration. D n r n rs
 n i Public Personnel Administration. D n or n B ons
 P A i Public Administration: Principles and Practice D n A n ons rs

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B CAD.

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n s r o n n n n r s n n r o n s o s o n r o
n s o n s n s r o n n n o n n n o s s o n p r n r o s n o n p s
r s n r s n n n p

F E E E A DCA DDA E

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India: Resources and Development, Arno n nn on on
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South Asia, n nn on on i i

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India: A Comprehensive Geography, n n rs n D n
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Co rs Cont nt

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o r p s
(4 lectures, 4 lab sessions)

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on n n r n s r s ro s o r s
(8 lectures, 16 lab sessions)

E n r o ns n D n on Con p s or App on Ar s n p s o p o r s
(10 lectures, 8 lab sessions)

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64 For s n s o r n h or p p r or r s s on h n r s on
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 o p sor q s on

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 h n s n n n h o h n s p on

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Dr. Anand

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- doUB f; x, vka, Xow nfXnB ns/f; zy nfXnB, gpbheUB fpUo', ga kph : Bhtof; Nh, gfNnk bk
- pj w i rdhU f; x, i gji h, ftukoXkok, gpX s/gkm, tko; Ukj ckT v UB, nfwf; o
- okw f; x, vka i gji h d/ga yv, gpbheUB fpT p', ga kph : Bhtof; Nh, gfNnk bk
- gofwzdo f; x, feogkb f; x, uvh dh tko, bkj b pje Ukg, bfXnkDk
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- rN The Sikhs of the Punjab, The New Cambridge History of India N D n C

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Microprocessor : Ar / ro ssor o ns r on A r ss n o s s rs
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Assembly Language : F r s o Ass n n n s Ass n s o
ns r on s o Ass or pro r s A on r on p on s n ro n s n B s
np / p

System Maintenance : n ro on o ro s o pon ns o o p r n s nsp on n
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o ro s n rn n E rn r s r ss p so Co p r r ss D on o r ss ro on
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Note : q s on p p n ons so Fo r n s
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s n s r r q r o p E q s on ro n n n o p sor
q s on
A q s ons r r q r s n ss sp

Basic Concepts of Object Oriented Programming(OOP) C ss En ps on D n
r n o r p s An s s n s n o s s n r n Appro n B n o s

Structure of a C++ Program : n s D r on o ss n n on / sr s

Classes : C ss D r on D rs r F n ons r n rs n n
n ps on r r n n ss

Objects : Cr n s A ss n ss rs A ss n r n ons n o s o p ss n
r n s o n ons

Object Concepts: Arr s o s s s n on r n s ss ss r n
o n r s o s

Functions in C++ : r n on n on ns n ss r on n o s n ss r on
s op r so on op r or r n r n on s n o r n ons n
Fr n n ons

Constructors and Destructors: Cons r ors D r on n D n on D Cons r ors r
Cons r ors Cop Cons r ors Destructors D n on n s

Inheritance – Extending Classes : Con p o r n s ss r ss n n r n r n pr r

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The C++ Programming Language, A son, s

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Object Oriented Programming with C++, H

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OOP in Turbo C++,

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Instructions for presentation

- i. Examiner will set total of NINE questions comprising TWO questions from each unit and ONE compulsory question of short answer type covering whole syllabi.
- ii. The students are required to attempt FIVE questions in all, ONE question from each unit and the Compulsory question.
- iii. Compulsory question carries six marks and remaining all questions carry four marks each.

Books

i. Co on F A nson s B s nor n Q s r r

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4

Hrs

A o o s n nos

C ss on n no n r

on r os o n r os o or on r on o s on s r o

Concept of Entropy: En rop s s n on n rop s n on o P n rop s n on o
 P n rop n n n p n n C s s n q n rop s r r o spon n n
 q r En rop n n s s n n o s s

Hrs

Third Law of Thermodynamics: rns n n or n n on p o r s n rop n on o
 so n rop ro n p s n n ons s n on n n
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nstr t ons or p p r s tt rs n n t s

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- iii. *Compulsory question carries six marks and remaining all questions carry four marks each.*

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- i. Examiner will set total of NINE questions comprising TWO questions from each unit and ONE compulsory question of short answer type covering whole syllabi.
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- iii. Compulsory question carries six marks and remaining all questions carry four marks each.

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BA/B EEA EC DYEAE E E YE Y E i Y AB

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Calotropis
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p n p r s h r r h p m s n nor s n s r r op n h s r n o r on
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 ono o s roo *Zea mays*
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BA/B EEA EC DYEA E E PE Y PE i Y AB

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B GE E EC DYEA EXA A i i i i
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or s on i s r

18

B A/B E E A EC D YEA E E ~~TE~~ Y ~~TE~~ / Y AB

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s p s D n on n s

Ornithorhynchus, Echidna, Didelphis, Macropus n roo Loris, Macaca, Manis n r Hystrix por p n Funambulus q rr Panthera, Canis, Herpestes on oos Capra, Pteropus

Con p o ro ro n o on
Boo on p o sp s
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i C ss on p o or rs s s n r rs n ono por n n o
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Chelone r n *Testudo* r o s *Hemidactylus*, *Calotes*, *Draco*,
Varanus, *Phrynosoma*, *Chamaeleon*, *Typhlops*, *Python*, *Eryx*, *Ptyas*,
Bungarus, *Naja*, *Hydrus*, *Vip4drus*, n

B CHE

B GE E EC DYEAE EXA A
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B A / B E E A EC D YEA E E ~~E~~ Y ~~E~~

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BA/B EEA EC DYEAE E E DE Y DE i Y AB

B CHE

B GE E EC DYEAE A
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F A E E A D DE

To o o q s ons n n A q s ons r r q r s
o o p sor ons s o r q s ons o r n n r s s
B s sq s on r i r s s ons o q s ons n
A o n r q s ons on n p r s
s ons o n or spr o r n r s s
n r q r o p q s ons n n o i n s on q s on ro
n o n s ons

prA A n B o n q s r s
t To n r s n n pr n p s n pp ons o o o n q s sp ros op
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EC

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EC

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or s n ns n r on F or s n no ss

EC

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o sotop t n q s

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s o n r on n s s n o p s o no ss Boo n r s o
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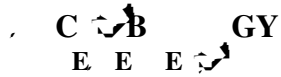
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BA/B E E A EC DYEA E E E Y E i Y AB

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MIC 301 : I) TRO* +CTIO) TO ME* IC#\$ MICRO, IOS- Y-I

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THEORY: 33 M#R0%

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- ote. "he /uestion paper Oill consist o+ +our sections (, 1). "here Oill be nine /uestions an! +i2e /uestions ha2e to be attempte!. 3uestion ' Oill span the complete syllabus an! Oill be compulsory. 4est eight /uestions Oill be +rom !i+erent sections o+ the syllabus. "here Oill be tOo /uestions +rom each o+ +our sections an! one is to be attempte!. 5ach /uestion Oill be sub!i2i!e! into 14 sub1parts.

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7rie+ intro! uction to terminology o+ in+ectious !iseases8 9re/uency o+ !isease8 4ecognition o+ in+ectious !isease8 Sn+ectious !isease cycle.

6ection 7

MIC 302 : I) TRO* +CTORY IMM+) OSO- Y-I

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 THEORY: 33 M#R0%
 I) TER) #S #%%E%%ME) T: (/2 M#R0%
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- ote. "he /uestion paper Oill consist o+ +our sections (, 1) . "here Oill be nine /uestions an! +i2e /uestions ha2e to be attempte!. 3uestion ' Oill span the complete syllabus an! Oill be compulsory. 4est eight /uestions Oill be +rom !i+erent sections o+ the syllabus. "here Oill be tOo /uestions +rom each o+ +our sections an! one is to be attempte!. 5ach /uestion Oill be sub!i2i!e! into 14 sub1parts.

6ection ,

\$ntro! uction an! history o+ immunology8 - on!speci!ic !e+enceC Physical barriers8 %hemical barriers8 %ellular8 Phagocytosis8 \$n+ammatory barriers8 \$n+lammaton8 9e2er8 "ypes o+ \$mmunity8, cti2e an! Passi2e \$mmunity8 \$mmunological memory

6ection 7

@umoral \$mmune 4esponse8, ntibo!iesD \$mmunoglobulins8 6tructure8+unction an! type o+ antibo!ies

6ection %

%ell #e!iate! \$mmune 6ystem (%#\$)8 #echanism o+ %#\$8 "ypes o+ e+ector " cells8 @elper " cells8 6uppressor " cells8 %ytotoxic " cells8 Biller " cells8 \$nteractions betOeen " an! 7 lymphocytes

6ection)

, ntigen!antibo!y interactions8 Precipitation reaction8 \$mmuno!i+usion test8 %ounter current \$mmuno electrophoresis8 %omplement +ixation tests

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M#. / M#R0%: 31/2 M#R0%
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6ection 7

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F n E on

A n o C r n Co n r n r n on ns Bo i

r Dr ss D s n r n p s o F n n m n D E n n
Co p n Yor n r n n i

n n E ro r s r G r s r n F o o n s B ro i Frs
E on
B s Boo o n E r op s Boo s on on

p Dr ss n r n or s Boon on on

En op o Dr ss n r C n D s Boos on on

i P Frs n r on s B n r n n En oo C s i

ii F n n s o P s n r Cr n D n r n on ns Bo C
r s D n pr n i

i o s n o P s n n r or Dr D r A ons D n i

i s or F r r n n n D n oo n r G r s Cr n rs Yor i

i En op o P s F r s r son r n n Yor
i

i P D P s o n ron r p os r Cr p n
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i F n on n P D s n

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i n oo o F n on n P D s n n n

i P r on E ro r o n n n D

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i Con pts o t r nt ro r n C ss En ps on D n
 r n o orp s Ah s s n s no s s s n o or n ppro n
 ntro t on to C r r o C ro r n s D r on o n
 o n n on / sr s
 ntro t on to C ss s C ss D r on D rs r F n ons r

t t r r o r n r o r p r o r s s n r o n o n s
 s s n r s s n r n n n r n n r C r n r
 p n n n n E n n r n p r s r r o r s
 s n r o n o n s h o s s n s n r r o n o n D o s s p n n
 s n n s o p p r s
 App t r o r n App n n s o n r o p p s App C Cr n