

COURSE STRUCTURE FOR UNDERGRADUATE 'HONOURS' PROGRAMME

Table AI-1: Distribution of 140 Credits [*wherever there is a practical there will be no tutorial and vice-versa.]

Course Theory + Practical	Papers	Credits Theory + Tutorial	Credits
I. Core Course	(CC 1 to 14)		
Theory	14 Papers	14X4=56	14X5=70
Practical/Tutorial*	14 Papers	14X2=28	14X1=14
II. Elective Course (EC)			
A. Discipline Specific Elective	(DSE1to4)		
Theory	4 Papers	4X4=16	4X5=20
Practical/ Tutorial*	4 Papers	4X2=8	4X1=4
B. Generic Elective/Interdisciplinary	(GE1to4)		
Theory	4 Papers	4X4=16	4X5=20
Practical/ Tutorial*	4 papers	4X2=8	4X1=4
III. Ability Enhancement Compulsory Courses (AECC)			
1. English/ Hindi Communication/ NH+MB/ Business Communication for Commerce	1 Paper	1X2=2	1X2=2
2. Environmental Science	1 Paper	1x2=2	1x2=2
3. Skill Enhancement Course of the Core Course opted	(SEC 1& 2) 2 Papers	2X2=4	2X2=4
Total Credit = 140			= 140

Table AI-1.1: Course structure for B.Sc./ B.A./ B.Com.(Hons. Programme)

Semester	Honours (Core Courses) 14 Papers	Allied (Elective Courses) 8 Papers	Ability Enhancement (Compulsory Courses) 4 Papers	Total Credits
Sem-I	C-1, C-2 (6+6=12 Credits)	GE-1 (06 Credits)	Eng Comm./ MIL/ MIL+NH (02 Credits)	20 Credits
Sem-II	C-3, C-4 (6+6=12 Credits)	GE-2 (06 Credits)	EVS (02 Credits)	20 Credits
Sem-III	C-5, C-6, C-7 (6+6+6=18 Credits)	GE-3 (06 Credits)	SEC-1 (02 Credits)	26 Credits
Sem-IV	C-8, C-9, C-10 (6+6+6=18 Credits)	GE-4 (06 Credits)	SEC-2 (02 Credits)	26 Credits
Sem-V	C-11, C-12 (6+6=12 Credits)	DSE-1, DSE-2 (6+6=12 Credits)		24 Credits
Sem-VI	C-13, C-14 (6+6=12 Credits)	DSE-3, DSE-4 (6+6=12 Credits)		24 Credits

Total = 140 Credits

COURSES OF STUDY FOR UNDERGRADUATE 'B. A. Hons' PROGRAMME

Table AI-2 Subject Combinations allowed for B. A. Hons. Programme (140 Credits)

Honours/Core Subject CC 14 Papers	Discipline Specific Elective Subject DSES 4 Papers	Skill Enhancement Course SEC 2 Papers	Compulsory Course AECC 1+1=2 Papers
Archaeology & Museology	Archaeology & Museology Specific	SEC in Archaeology & Museology	Language Communication + EVS

Table AI-2.1 Semester wise Examination Structure for Mid Sem & End Sem Examinations:

Sem	Core Honours, Allied DSE, Compulsory AECC Courses		Examination Structure		
	Code	Papers	Mid Semester Theory (F.M.)	End Semester Theory (F.M.)	End Semester Practical/ Viva (F.M.)
I	C1	An Introduction to Archaeology + T	25	75	
	C2	Basics of Museum + T	25	75	
	GE1	Refer Table AI-2.3 of the Syllabus of Subject opted			
	AECC	Language Communication		100	
II	C3	Ancient Indian History (600 B.C. - 300 A.D.) + T	25	75	
	C4	Museums in India + T	25	75	
	GE2	Refer Table AI-2.3 of the Syllabus of Subject opted			
	AECC	EVS		100	
III	C5	Ancient Indian History (300 A.D. – 1200 A.D.) + T	25	75	
	C6	Museum Administration and Public Relation + T	25	75	
	C7	History of Archaeology + T	25	75	
	GE3	Refer Table AI-2.3 of the Syllabus of Subject opted			
	SEC 1	Elementary Computer Application Software + Lab		100	
IV	C8	Prehistoric Culture of India + T	25	75	
	C9	Protohistoric Culture of India + T	25	75	
	C10	Museum Collection & Documentation + T	25	75	
	GE4	Refer Table AI-2.3 of the Syllabus of Subject opted			
	SEC 2	Application of Photography in Archaeology & Museology		100	
V	C11	Art & Architecture of India + T	25	75	
	C12	Museum Education + T	25	75	
	DSE 1	Ancient World Civilizations + T	25	75	
	DSE 2	Heritage and Sites of India + T	25	75	
VI	C13	Indian Numismatics + T	25	75	
	C14	Preventive Conservation + T	25	75	
	DSE 3	Cultural History of Jharkhand + T	25	75	
	DSE 4	Museum Exhibition + T	25	75	

Table AI-2.2 Generic Subject Papers for B. A. Hons. Programme (140 Credits);**All Four Papers of Any One Subject to be opted leaving aside the papers of Hons. Subject:**

Generic Elective Subject GE 4 Papers	Generic Elective Courses for Arts Stream (GE will be other than Core Subject opted)			
	Semester I GE1	Semester II GE2	Semester III GE3	Semester IV GE4
Hindi	dyk v|j |kfgR; +T	vuokn +T	|kfgR; vkj i=dkjrk +T	jpukRed ys[ku dh fo/kk, +T
English	Academic Writing +T	Language & Linguistics +T	Literature: Poems & Short Stories +T	Language, Literature & Culture +T
Bengali	History of Bengali Literature +T	Bengali Poetry, Novel, Short Stories +T	Bengali Poetry, Drama, Short Stories +T	Bengali Poetry, Short Stories, Bengali Essay +T
Urdu	Study of Poet Nazir Akbarabadi +T	Study of Short Story Writer Prem Chand +T	Mass Media: Principles and Practice +T	Study of Short Story Writer +T
Sanskrit	संस्कृत व्याकरण एवं व्याकरण शास्त्र का इतिहास +T	भारतीय संस्कृत ए राजनीति +T	आयुर्वेद की परम्परा +T	भाषातत्त्वज्ञान +T
Ho	dyk |kfgR; ,o |al.dfr +T	ikjEifjd ok| ;a= +T	>kj|kOMh |lenk; dk |kal.dfrd d|lae +T	gk |lenk; dh uR; 'sfy;| +T
Kharia	dyk |kfgR; ,o |al.dfr +T	ikjEifjd ok| ;a= +T	>kj|kOMh |lenk; dk |kal.dfrd d|lae +T	[kfm+k |lenk; dh uR; 'sfy;| +T
Khortha	dyk |kfgR; ,o |al.dfr +T	ikjEifjd ok| ;a= +T	>kj|kOMh |lenk; dk |kal.dfrd d|lae +T	[|sjBk |lenk; dh uR; 'sfy;| +T
Kurmali	dyk |kfgR; ,o |al.dfr +T	ikjEifjd ok| ;a= +T	>kj|kOMh |lenk; dk |kal.dfrd d|lae +T	djekyh |lenk; dh uR; 'sfy;| +T
Kurux	dyk |kfgR; ,o |al.dfr +T	ikjEifjd ok| ;a= +T	>kj|kOMh |lenk; dk |kal.dfrd d|lae +T	dM[| |lenk; dh uR; 'sfy;| +T
Mundari	dyk |kfgR; ,o |al.dfr +T	ikjEifjd ok| ;a= +T	>kj|kOMh |lenk; dk |kal.dfrd d|lae +T	e Mk |lenk; dh uR; 'sfy;| +T
Nagpuri	dyk |kfgR; ,o |al.dfr +T	ikjEifjd ok| ;a= +T	>kj|kOMh |lenk; dk |kal.dfrd d|lae +T	ukxijh |lenk; dh uR; 'sfy;| +T
Panch Pargania	dyk |kfgR; ,o |al.dfr +T	ikjEifjd ok| ;a= +T	>kj|kOMh |lenk; dk |kal.dfrd d|lae +T	iapijxfu;k |lenk; dh uR; 'sfy;| +T
Santhali	dyk |kfgR; ,o |al.dfr +T	ikjEifjd ok| ;a= +T	>kj|kOMh |lenk; dk |kal.dfrd d|lae +T	|arky |lenk; dh uR; 'sfy;| +T
Geography	Geomorphology +Lab	Human Geography +Lab	Climatology +Lab	Economic Geography +Lab
Political Science	An Introduction to Political Theory +T	Indian Govt. and Politics +T	Comparative Govt. and Politics +T	Public Administration +T
Psychology	Introduction of psychology +Lab	Social psychology +Lab	Psychopathology +Lab	Psychological Statistics +Lab
Sociology	Indian Society and Culture +T	Social Movement in India +T	Sociology of Religion +T	Indian Sociological Theories +T
Economics	Principals of Microeconomics +T	Principals of Macroeconomics +T	Indian Economy +T	Money Banking & Public Finance +T
Anthropology	Economic Anthropology +T	Political Anthropology +T	Anthropology of Religion +T	Linguistic Anthropology +T
Philosophy	Indian Philosophy-I +T	Indian Philosophy-II +T	Indian Ethics +T	Western Ethics +T
Home Science	Human Nutrition +Lab	Entrepreneurship for small Catering units +Lab	Current concerns in Public Health Nutrition +T	Care and Wellbeing in Human Development +Lab
Mathematics	Object oriented Programming in C++ +T	Econometrics +T	Information Security +T	Application of Algebra +T

Table AI-2.2: Subject Combinations allowed for B. A. Generic Subjects:

S.No.	Note: Any Two Subjects may be opted as GE Subject but only One from S.No.1 and 10 will be allowed, if desired.		
1	Anthropology / Geography / Psychology / Home Science /	10	Bengali / Urdu / Sanskrit / Ho / Kharia / Khortha / Kurmali / Kurux / Mundari / Nagpuri / Panch Pargania / Santhali
2	History		
3	Political Science		
4	Sociology		
5	Economics		
6	Philosophy		
7	Mathematics		
8	Hindi		
9	English		

Table AI-2.3 Semester wise Structure for End Sem Examinations of Generic Elective in Archaeology & Museology:

Sem	Core Honours, Allied DSE, Compulsory AECC Courses		Examination Structure		
	Code	Papers	Mid Semester Theory (F.M.)	End Semester Theory (F.M.)	End Semester Practical/ Viva (F.M.)
I	GE1	Museum and Society		100	
II	GE2	Indian Heritage at a Glance		100	
III	GE3	Archives in India		100	
IV	GE4	Glimpse of Jharkhand Through Time and Space		100	

SEMESTER I
4 Papers

Total 100 x 4 = 400 Marks
I. ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)

(Credits: Theory-02)

Any One Compulsory Language Communication Prescribed by Ranchi University:
 English Communication/ Hindi Communication / NH + MB Communication
 (Refer AECC Curriculum of Ranchi University)

II. GENERIC ELECTIVE (GE 1)

(Credits: 06)

All Four Papers (One paper to be studied in each semester) of any One Subject to be opted other than the Honours Subject. Refer Content from the Syllabus of Opted Generic Elective Subject.

III. CORE COURSE – C 1:

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100	Pass Marks (MSE + ESE) =40
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Instruction to Question Setter for***Mid Semester Examination (MSE):***

There will be **two** group of questions. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type** six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be **two** group of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of ten questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

INTRODUCTION TO ARCHAEOLOGY Theory: 75 Lectures; Tutorial:15 Lectures**I. Introduction:**

- [a] Definition, (Nature) Aim and Scope
- [b] Archaeology and its relation to other subjects (Social and Natural science)
- [c] Archaeology, History and Anthropology: Difference similarities

II. Archaeology and New trends:

- [a] Marine Archaeology
- [b] Ethno Archaeology, Environmental Archaeology
- [c] Historical Archaeology

III. Chronology and Dating Methods:

[a] Relative Chronology

[b] Absolute Method of dating

IV. Methods of Data Collection:

[a] Exploration: Preparation

[b] Excavation: Basic element

Essential Readings:

- D.K.Bhattacharya – An Outline of Indian Prehistory
- Jai Narayan Pandey – Puratattva Vimarsh (in Hindi)
- V.K. Jain – Prehistory and Protohistory of India: An Appraisal
- Shiv Swaroop Sahay – Bhartiya Puratattva (in Hindi)

IV. CORE COURSE - C 2:

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100**Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for
Mid Semester Examination (MSE):***

There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

BASICS OF MUSEUM**Theory: 75 Lectures; Tutorial:15 Lectures****I. Introduction to Museum and Museology:**

- [a] Museum: Origin, Definition and Purpose.
- [b] Museology and Museography: Meaning.
- [c] Museum Professional Trainings and opportunities.

II. Types and Classification of Museums:

- [a] Types of Museums based on governing body
- [b] Classification of Museums
- [c] Open-Air Museum and Para Museums

III. Functions of Museum:

- [a] Collection
- [b] Documentation
- [c] Conservation
- [d] Exhibition

IV. Role, Importance and Museum Organizations:

- [a] Educational Role of Museum
- [b] Importance – Cultural, Social, Economic
- [c] National and International organizations – MAI, ICOM, UNESCO, ICCROM

Suggested Readings:

- Shukla & Pandey, Vimlesh. K. – Sangrahalaya Vigyan (in Hindi)
- Sahay, Shiva Swaroop _ Sangrahalaya Ki Or (in Hindi)
- Agrawal, Usha – Museums of India, a brief directory
- Ambrose, Timothy & Paine, Crispin – Museum Basics
- Baxi, Smita & Dwivedi, Devendra – Modern Museum
- Gupta, S.P. & Srivastava, Mohit – Modern Museum Management
- Morley Grace – Museums Today
- Nigam, M L – Fundamentals of Museology

SEMESTER II

4 Papers**Total 100 x 4 = 400 Marks****I. ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)**

(Credits: Theory-02)

Marks : 100 (ESE: 3Hrs) =100**Pass Marks Th ESE = 40*****Instruction to Question Setter for******End Semester Examination (ESE):***

*There will be **objective type test** consisting of hundred questions of 1 mark each. Examinees are required to mark their answer on **OMR Sheet** provided by the University.*

AECC – ENVIRONMENT STUDIES**Theory: 30 Lectures****Unit 1 : Introduction to environmental studies**

Multidisciplinary nature of environmental studies;

Scope and importance; Concept of sustainability and sustainable development.

(2 lectures)**Unit 2 : Ecosystems**

What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems :

Forest ecosystem

Grassland ecosystem

Desert ecosystem

Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

(2 lectures)**Unit 3 : Natural Resources : Renewable and Non-renewable Resources**

Land resources and land use change; Land degradation, soil erosion and desertification.

Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.

Water : Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).

Energy resources : Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

(5 lectures)**Unit 4 : Biodiversity and Conservation**

Levels of biological diversity : genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots

India as a mega-biodiversity nation; Endangered and endemic species of India

Threats to biodiversity : Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity.

Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

(5 lectures)

Unit 5 : Environmental Pollution

Environmental pollution : types, causes, effects and controls; Air, water, soil and noise pollution

Nuclear hazards and human health risks

Solid waste management : Control measures of urban and industrial waste.

Pollution case studies.

(5 lectures)

Unit 6 : Environmental Policies & Practices

Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture

Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest

Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).

Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.

(4 lectures)

Unit 7 : Human Communities and the Environment

Human population growth: Impacts on environment, human health and welfare.

Resettlement and rehabilitation of project affected persons; case studies.

Disaster management : floods, earthquake, cyclones and landslides.

Environmental movements : Chipko, Silent valley, Bishnois of Rajasthan.

Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.

Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

(3 lectures)

Unit 8 : Field work

Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.

Visit to a local polluted site--Urban/Rural/Industrial/Agricultural.

Study of common plants, insects, birds and basic principles of identification.

Study of simple ecosystems--pond, river, Delhi Ridge, etc.

(Equal to 4 lectures)

Suggested Readings:

- Raziuddin, M., Mishra P.K. 2014, *A Handbook of Environmental Studies*, Akanaksha Publications, Ranchi.
 - Mukherjee, B. 2011: *Fundamentals of Environmental Biology*. Silverline Publications, Allahabad.
 - Carson, R. 2002. *Silent Spring*. Houghton Mifflin Harcourt.
 - Gadgil, M., & Guha, R. 1993. *This Fissured Land: An Ecological History of India*. Univ. of California Press.
 - Gleeson, B. and Low, N. (eds.) 1999. *Global Ethics and Environment*, London, Routledge.
 - Gleick, P. H. 1993. *Water in Crisis*. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
 - Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. *Principles of Conservation Biology*. Sunderland: Sinauer Associates, 2006.
 - Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. *Science*, 339: 36--37.
 - McCully, P. 1996. *Rivers no more: the environmental effects of dams* (pp. 29--64). Zed Books.
 - McNeill, John R. 2000. *Something New Under the Sun: An Environmental History of the Twentieth Century*.
 - Odum, E.P., Odum, H.T. & Andrews, J. 1971. *Fundamentals of Ecology*. Philadelphia: Saunders.
 - Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. *Environmental and Pollution Science*. Academic Press.
 - Rao, M.N. & Datta, A.K. 1987. *Waste Water Treatment*. Oxford and IBH Publishing Co. Pvt. Ltd.
 - Raven, P.H., Hassenzahl, D.M. & Berg, L.R. 2012. *Environment*. 8th edition. John Wiley & Sons.
 - Rosencranz, A., Divan, S., & Noble, M. L. 2001. *Environmental law and policy in India*. Tripathi 1992.
 - Sengupta, R. 2003. *Ecology and economics: An approach to sustainable development*. OUP.
 - Singh, J.S., Singh, S.P. and Gupta, S.R. 2014. *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi.
 - Sodhi, N.S., Gibson, L. & Raven, P.H. (eds). 2013. *Conservation Biology: Voices from the Tropics*. John Wiley & Sons.
 - Thapar, V. 1998. *Land of the Tiger: A Natural History of the Indian Subcontinent*.
 - Warren, C. E. 1971. *Biology and Water Pollution Control*. WB Saunders.
 - Wilson, E. O. 2006. *The Creation: An appeal to save life on earth*. New York: Norton.
- World Commission on Environment and Development. 1987. *Our Common Future*. Oxford University

II. GENERIC ELECTIVE (GE 2):

(Credits: 06)

All Four Papers (One paper to be studied in each semester) of any One Subject to be opted other than the Honours Subject. Refer Content from the Syllabus of Opted Generic Elective Subject.

III. CORE COURSE - C 3:

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100

Pass Marks (MSE + ESE) =40

Instruction to Question Setter for***Mid Semester Examination (MSE):***

There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.

Note: *There may be subdivisions in each question asked in Theory Examinations.*

ANCIENT INDIAN HISTORY (600 BC – 300 AD)

Theory: 75 Lectures; Tutorial:15 Lectures

I. Early Indian History

- [a] Mahajanpadas: Kashi, Chedi, Hastinapur, Magadh
- [b] Rise of Cities in Second Urbanization

II. Mauryans

- [a] Origins of Chandragupta Maurya
- [b] Ashoka*
- [c] Decline of Mauryans

III. Post Mauryan

- [a] Sunga
- [b] Satvahana (Amravati)*
- [c] Tribal Dynasty*

IV. Foreign Dynasty

- [a] Indo-Greek: Taxila
- [b] Saka & Pahlava (Western India)*
- [c] Kushana (Gandhara & Mathura)

* *Note: The topics shall be discussed with emphasizing on archaeological point of view
i.e., coins and inscription.*

Essential Readings

- Singh Upinder 2009. *A History of Ancient and Early Medieval India*, Delhi: Pearson.
- Narain, A.K. 1957. *The Indo-Greeks*. Oxford: Oxford University Press.
- Mirashi, V.V. 1981. *The History and Inscriptions of the Satavahanas and the Western Kshatrapas*. Bombay: State Board of Literature.
- Shastri, A.M. (ed.). 1999. *The Age of Satavahanas* 2 vols. New Delhi: Aryan Publications
- Shastri, K.A.N. 1952. *The Age of the Nandas and Mauryas*. Banaras: Motilal Banarasidas.
- Shastri, K.A.N. 1957. *A Comprehensive History of India vol.I (The Mauryas and Satavahanas)*. Bombay: Oriental Longman.
- Mujumdar, R.C. (ed.). 1966. *The Age of Imperial Unity*. Bombay: Bharatiya Vidya Bhavan
- Mukherjee, B. N. 1988. *The Rise and Fall of the Kushana Empire*. Calcutta: Firma
- Sharma, G. R. (ed.). 1968. *Kushana Studies*. Allahabad: University of Allahabad.
- Sharma, J. P. 1968. *Republics in Ancient India*. Leiden: Brill.
- Colledge, M. A. R. 1986. *The Parthian Period*. Leiden: Brill Academic Publishers.
- Leeuw J.E.Van Lohvizen-De 1995. *The Scythian Period*. New Delhi: Munshiram Manoharlal Pvt. Ltd.
- Heninge, D. 1974. *Chronology of Oral Tradition*. London: Clarendon Press

IV. CORE COURSE - C 4:

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100**Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for
Mid Semester Examination (MSE):***

There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

MUSEUMS IN INDIA**Theory: 75 Lectures; Tutorial:15 Lectures****I. History and Development of Museums:**

- [a] Museum Evolutions in Ancient India
- [b] Development of Museums in Pre-Independence
- [c] Development of Museum in Post-Independence

II. Museums of National Importance:

- [a] Indian Museum, Kolkata
- [b] National Museum, New Delhi
- [d] Salarjung Museum, Hyderabad

III. State Museums:

- [a] Patna Museum
- [b] Chhatrapati Shivaji Maharaj Vastu Sangrahalaya
- [c] Chennai Government Museum

IV. Archaeological Site Museums and Others:

- [a] Archaeological Site Museums – Bodhgaya, Nalanda Museum, Sarnath Museum, Hampi, Red Fort Museum
- [b] Memorial Museums – Gandhi Memorial Museum, Delhi, Nehru Memorial Museum, Delhi
- [c] Other Museums: National Gallery of Modern Art, Delhi, Indira Gandhi Rashtriya Manav Sangrahalaya, Bhopal.

Essential Readings:

- Agrawal, Usha – Museums of India, a brief directory
- Banerjee, N.R. – Museum and Cultural Heritage in India
- Baxi, Smita & Dwivedi, Devendra – Modern Museum
- Markham and Hargreaves – The Museums of India
- Morley Grace – Museums Today
- Nigam, M L – Fundamentals of Museology
- Sarkar, H – Museums and Protection of Monuments and Antiquities in India
- Sivaramamurthy, C – A Directory of Museums in India
- V. Jeyaraj – Heritage Management

SEMESTER III

5 Papers

Total 100 x 5 = 500 Marks

I. SKILL ENHANCEMENT COURSE SEC 1:

(Credits: Theory-02)

Marks : 100 (ESE: 3Hrs) =100

Pass Marks Th ESE = 40

Instruction to Question Setter for

End Semester Examination (ESE):

*There will be **objective type test** consisting of hundred questions of 1 mark each. Students are required to mark their answer on **OMR Sheet** provided by the University.*

ELEMENTARY COMPUTER APPLICATION SOFTWARES:

A Common Syllabus Prescribed by Ranchi University

Theory: 30 Lectures

Objective of the Course

The objective of the course is to generate qualified manpower in the area of Information Technology (IT) and Graphic designing which will enable such person to work seamlessly at any Offices, whether Govt. or Private or for future entrepreneurs in the field of IT.

A. INTRODUCTION TO COMPUTER SYSTEM

Basic Computer Concept

Computer Appreciation - Characteristics of Computers, Input, Output, Storage units, CPU, Computer System. **(1 Lecture)**

Input and Output Devices

Input Devices - Keyboard, Mouse, joystick, Scanner, web cam,
Output Devices- Soft copy devices, monitors, projectors, speakers, Hard copy devices, Printers – Dot matrix, inkjet, laser, Plotters. **(4 lectures)**

Computer Memory and Processors

Memory hierarchy, Processor registers, Cache memory, Primary memory- RAM, ROM, Secondary storage devices, Magnetic tapes, Floppy disks, hard disks, Optical Drives- CD-ROM, DVD-ROM, CD-R, CD-RW, USB Flash drive, Mass storage devices: USB thumb drive. Managing disk Partitions, File System. Basic Processor Architecture, Processor speed, Types of processors.

(5 lectures)

Numbers Systems and Logic Gates

Decimal number system, Binary number system, Octal number system, Hexadecimal number system, Inter-conversion between the number systems. Basic Logic gates-AND, OR, NOT, Universal logic gates- NAND, NOR

(3 lectures)

Computer Software

Computer Software- Relationship between Hardware and Software, System Software, Application Software, Compiler, Names of some high-level languages, Free domain software.

(2 Lectures)

Internet & its uses

History of Internet, WWW and Web Browsers: Web Browsing software, Surfing the Internet, Chatting on Internet, Basic of electronic mail, Using Emails, Document handling, Network definition, Common terminologies: LAN, WAN, MAN, Node, Host, Workstation, Bandwidth, Network Components: Servers, Clients, Communication Media. Wireless network

(3 Lectures)**Operating system-Windows**

Operating system and basics of Windows, The User Interface, Using Mouse and Moving Icons on the screen, The My Computer Icon, The Recycle Bin, Status Bar, Start and Menu & Menu-selection, Running an Application, Windows Explorer Viewing of File, Folders and Directories, Creating and Renaming of files and folders, Opening and closing of different Windows, Windows Setting, Control Panels, Wall paper and Screen Savers, Setting the date and Sound, Concept of menu Using Help, Advanced Windows, Using right Button of the Mouse, Creating Short cuts, Basics of Window Setup, Notepad, Window Accessories

(2 Lectures)**B. MICROSOFT OFFICE 2007 AND LATEST VERSIONS****Word Processing**

Word processing concepts: saving, closing, Opening an existing document, Selecting text, Editing text, Finding and replacing text, printing documents, Creating and Printing Merged Documents, Character and Paragraph Formatting, Page Design and Layout. Editing and Checking. Correcting spellings. Handling Graphics, Creating Tables and Charts, Document Templates and Wizards, Mail merge and Macros.

(3 Lectures)**Microsoft Excel (Spreadsheet)**

Spreadsheet Concepts, Creating, Saving and Editing a Workbook, Inserting, Deleting Work Sheets, entering data in a cell / formula Copying and Moving from selected cells, handling operators in Formulae, Functions: Mathematical, Logical, statistical, text, financial, Date and Time functions, Using Function Wizard. Formatting a Worksheet: Formatting Cells changing data alignment, changing date, number, character or currency format, changing font, adding borders and colors, Printing worksheets, Charts and Graphs – Creating, Previewing, Modifying Charts. Integrating word processor, spread sheets, web pages. Pivot table, goal seek, Data filter and scenario manager

(4 Lectures)**Microsoft Power Point (Presentation Package)**

Creating, Opening and Saving Presentations, Creating the Look of Your Presentation, Working in Different Views, Working with Slides, Adding and Formatting Text, Formatting Paragraphs, Drawing and Working with Objects, Adding Clip Art and other pictures, Designing Slide Shows, Running and Controlling a Slide Show, Printing Presentations. Creating photo album, Rehearse timing and record narration. Master slides.

(3 Lectures)**Reference Books**

- Nishit Mathur, Fundamentals of Computer , Aph publishing corporation(2010)
- Misty E. Vermaat,.Microsoft word 2013 1st Edition (2013).
- Satish Jain, M.Geeta, MS- Office 2010 Training Guide, BPB publication (2010)
- Joan Preppernau, Microsoft PowerPoint 2016 step by step, Microsoft press(2015)
- Douglas E Corner, The Internet Book 4th Edition, prentice –Hall(2009)
- Faithe wempen, word 2016 in depth 1st edition, que publishing(2015)
- Steven welkler, Office 2016 for beginners, Create Space Independent publishing Platform (2016)

SKILL ENHANCEMENT LAB- SEC 1 LAB

A. MS-WORD LAB ASSIGNMENT

1. Write down the following Paragraph OR any one provided by your teacher;

Without a doubt, the Internet is one of the most important inventions of modern times. The Internet is a global interconnected computer networks which allow each connected computer to share and exchange information with each other. The origins of the Internet can be traced to the creation of Advanced Research Projects Agency Network (ARPANET) as a network of computers under the auspices of the U.S. Department of Defense in 1969.

Apply following effects on The paragraph:

- i. Paragraph **font-size** and **font-type** must be 12 Verdana.
- ii. Paragraph **alignment** must be justified and double line spacing.
- iii. **Highlight** the "(ARPANET)" with green color.
- iv. Make the "Internet" keywords **Bold and Italic**.
- v. Insert any "**WordArt**" and a **symbol** to your document.
- vi. Insert a **clipart** to your document.
- vii. Add following lines to your document:
Internet, Intranet, Extranet, URL, WWW, Networking, Protocols, HTTP, TCP/IP

2. Create a Table of following fields:

Name, Surname, Age, Gender, Job and apply the following effects

- i. Insert 10 records
- ii. Font size should be 12
- iii. Title size should be 14
- iv. Font type should be Times new Roman
- v. Title color should be blue
- vi. Text color should be black
- vii. Table border should be 2

3. Write a letter on 'Road Safety' and send to 'Multiple Recipients' using mail merge.

4. Type the paragraph given below:

Today, the Internet is a public, cooperative and self-sustaining facility accessible to hundreds of millions of people worldwide. Physically, the Internet uses a portion of the total resources of the currently existing public telecommunication networks. Technically, what distinguishes the Internet is its use of a set of protocols called TCP/IP (for Transmission Control Protocol/Internet Protocol). Two recent adaptations of Internet technology, the intranet and the extranet, also make use of the TCP/IP protocol. Today, the Internet is a public, cooperative and self-sustaining facility accessible to hundreds of millions of people worldwide. Physically, the Internet uses a portion of the total resources of the currently existing public telecommunication networks. Technically, what distinguishes the Internet is its use of a set of protocols called TCP/IP (for Transmission Control Protocol/ Internet Protocol). Two recent adaptations of Internet technology, the intranet and the extranet, also make use of the TCP/IP protocol.

Apply the following:

- i. Change Internet into Internets at a time
- ii. Heilight TCP/IP in red color
- iii. Replace protocol into protocols
- iv. Find the word “Public”

B. MICROSOFT EXCEL LAB ASSIGNMENT

Basic Formatting and Spreadsheet Manipulation

- 5. Add rows and columns to an existing spreadsheet
- 6. Reformat data (center, comma and currency styles, bold, text color)
- 7. Work with a simple formula (product) and function (sum)

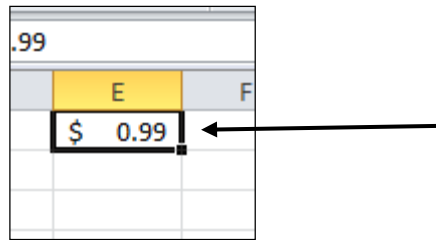
Assignment

- 1. Create a workbook as shown below.
- 2. To enter new rows or columns, simply click on the row or column header to select the whole row or column. Then right click with the mouse and choose insert.
- 3. Add the new row for S Spade with the data that’s shown below (between the original rows 7 and 8).
- 4. Add a column for gender and the data as shown below (between the original columns A and B). Enter the appropriate gender for yourself in the last row.

A	B	C	D
Name	Male/Female	Genre	Number of Songs
J Smith	F	Blues	50
B Doe	M	Country	110
S Spade	F	Country	200
F Zappa	M	Blues	1400
F Zappa	M	Alternative	2300
J Smith	F	Alternative	150
S Spade	F	Blues	1000
B Doe	M	Blues	75
yourname	M	Blues	800

- 5. Center the data in columns B and C. Do this by selecting the whole column and click the center icon on the ribbon.
- 6. Bold the data in row 1, the column headings (ensure that the data all remains visible within the column boundaries).
- 7. Change the font color for row 1 to Blue.
- 8. Change the format of the data in column D to comma style (no decimal places showing). There is an icon on the home tab that sets it to comma style easily.
- 9. Add two new column labels to the right of the current columns; **Unit Price** and **Total Cost**. (They will be in columns E and F.) These two columns of data should be currency type so that the dollar sign is shown. There is an icon to quickly format the selected column as currency type.
- 10. All tunes are \$.99, so enter that value for all rows in Column E. You can copy quickly by using the **Auto Fill** handle and drag that amount down. When you over your mouse over the tiny square in

the bottom right hand corner of the active cell, your mouse shape will become a skinny plus sign, and you can click and drag that cell to make a copy.



11. Calculate Total Cost (column F) as *column D times Column E*. You will type in a formula like this into cell F2: **=D2*E2** (Be sure to begin the formula with an equal sign)
12. Use the AutoFill (skinny plus sign) again to copy the formula down column F; down to F10. Double check the picture below to make sure yours has the correct values
13. Add a border to all of the cells (A1-f10) using the Borders tool in the Fonts group on the Home Tab.
14. Change the page layout to landscape. Do this by clicking the Page Layout tab on the ribbon and then to Orientation to Landscape.
15. Save the file.
16. Click in cell F11 and Use the sum function or the shortcut icon that looks like Σ to get the total of the Total Cost column.
17. Ensure that the data is all visible within the column boundaries. Make the columns wider if needed.
18. Save the workbook. Your final spreadsheet should look like the following when printed.

Name	Male/Female	Genre	Number of Songs	Unit Price	Total Cost
J Smith	F	Blues	50	\$ 0.99	\$ 49.50
B Doe	M	Country	110	\$ 0.99	\$ 108.90
S Spade	F	Country	200	\$ 0.99	\$ 198.00
F Zappa	M	Blues	1,400	\$ 0.99	\$ 1,386.00
F Zappa	M	Alternative	2,300	\$ 0.99	\$ 2,277.00
S Spade	F	Blues	1,000	\$ 0.99	\$ 990.00
J Smith	F	Alternative	150	\$ 0.99	\$ 148.50
B Doe	M	Blues	75	\$ 0.99	\$ 74.25
yourname	M	Blues	800	\$ 0.99	\$ 792.00

\$ 6,024.15

Create a sample table given below in Excel

- Using formula find Total
- Find the maximum value using MAX function from the **Units** column
- Find minimum value from **Total** column

Order Date	Region	Rep	Item	Units	Unit Cost	Total
1/6/2016	East	Jones	Pencil	95	1.99	189.05
1/23/2016	Central	Kivell	Binder	50	19.99	999.50
2/9/2016	Central	Jardine	Pencil	36	4.99	179.64
2/26/2016	Central	Gill	Pen	27	19.99	539.73
3/15/2016	West	Sorvino	Pencil	56	2.99	167.44
4/1/2016	East	Jones	Binder	60	4.99	299.40
4/18/2016	Central	Andrews	Pencil	75	1.99	149.25
5/5/2016	Central	Jardine	Pencil	90	4.99	449.10
5/22/2016	West	Thompson	Pencil	32	1.99	63.68
6/8/2016	East	Jones	Binder	60	8.99	539.40
6/25/2016	Central	Morgan	Pencil	90	4.99	449.10
7/12/2016	East	Howard	Binder	29	1.99	57.71
7/29/2016	East	Parent	Binder	81	19.99	1,619.19
8/15/2016	East	Jones	Pencil	35	4.99	174.65
9/1/2016	Central	Smith	Desk	2	125.00	250.00
9/18/2016	East	Jones	Pen Set	16	15.99	255.84
10/5/2016	Central	Morgan	Binder	28	8.99	251.72
10/22/2016	East	Jones	Pen	64	8.99	575.36
11/8/2016	East	Parent	Pen	15	19.99	299.85
11/25/2016	Central	Kivell	Pen Set	96	4.99	479.04
12/12/2016	Central	Smith	Pencil	67	1.29	86.43
12/29/2016	East	Parent	Pen Set	74	15.99	1,183.26

B. MS-POWERPOINT LAB ASSIGNMENT

Activity 1 : Using Text & Background/Themes

- i. Create one new slide and insert any text.
- ii. To make your slide more attractive, use the themes or background.
- iii. Make sure it apply for every slide not only one slide.

Activity 2 : Apply Custom Animation On Text

- i. Use the custom animation to add effects on your text. Set the text move after you click the mouse.
- ii. If you have more than one text, add effects for each of text.

Activity 3 : Insert Image & WordArt

- i. Insert one new blank slide.
- ii. Choose one pictures or clip art from any source and insert in your new slide.
- iii. Using the WordArt, make a note or title on your picture.
- iv. Use the custom animation again to add effects on your picture and WordArt.

Activity 4 : Insert Text Box

- i. Insert one new blank slide.
- ii. Use the text box to insert one paragraph of text and adjust your text.

Activity 5 : Insert Smart Art

- i. Insert one new blank slide.
- ii. Insert the Smart Art and put your text on the Smart Art.

Activity 6 : Insert Audio

- i. Back to your first slide and insert one audio on that slide. The audio must play automatically when you show your slide.
- ii. Make sure the speaker also not appear when you show your slide. (the icon).
- iii. The audio must play when you show all your slide, not only one slide.

Activity 7 : inserting Video

- i. Insert one new slide and insert one short video

Activity 8 : Save File

- i. Save your file

Activity 9 : Create Photo Album & Hyperlink

- i. Insert one new slide and put a text ex: "My Photo Album"
- ii. Create one photo album and adjust your text and your photos
- iii. Save your photo album with a new file
- iv. Make a hyperlink to your photo using the text "My Photo Album"

Reference Books:

- Faithe wempen, word 2016 in depth 1st edition, que publishing(2015)
- steven welkler, Office 2016 for bignners, Create Space Independent publishing platform(2016)
- Elaine Marmel, office 2016 simplified, 1st Edition, John wiley and sons Inc(2016)
- Patrice-Anne Rutledge, Easy office 2016 1st edition, Que publishing(2016)

GENERIC ELECTIVE (GE 3)

(Credits: 06)

All Four Papers (One paper to be studied in each semester) of any One Subject to be opted other than the Honours Subject. Refer Content from the Syllabus of Opted Generic Elective Subject.

II. CORE COURSE - C 5:

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100	Pass Marks (MSE + ESE) =40
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Instruction to Question Setter for**Mid Semester Examination (MSE):**

There will be **two** group of questions. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type** six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be **two** group of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of ten questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of fifteen marks each, out of which any four are to answer. **Note:** There may be subdivisions in each question asked in Theory Examinations.

ANCIENT INDIAN HISTORY (300 A.D. - 1200 A.D.)***Theory: 75 Lectures; Tutorial:15 Lectures****I. Gupta Empire:**

- [a] Origin
- [b] Samudragupta
- [c] Chandragupta-II, Kumargupta-I
- [d] Skandagupta and fall of Gupta Empire

II. The Vakataka and Post Gupta:

- [a] Vakataka (Inscription) Remains
- [b] Harsha, Sasanka
- [c] Kashmir

III. South India:

- [a] Pallavas, Pandya
- [b] Chola
- [c] Chalukyas of Badami

IV. West India:

- [a] Gurjar Pratihar,
- [b] Pala- Sena
- [c] Rastrakuta
- [d] Maitrakas of Valabhi

* *Note: The topics shall be discussed with emphasizing on archaeological point of view i.e., Inscription, Plates Remains.*

Essential Readings

- Singh Upinder 2009. *A History of Ancient and Early Medieval India*, Delhi: Pearson.
- Shrivastava, K.C. *Prachin Bharat ka Itihas evam Sanskriti*
- Mujumdar, R.C. And A.D. Pusalkar (eds.). 1950. *The Vedic Age*. Bombay: Bharatiya Vidya Bhavan.
- Mujumdar, R.C. (ed.). 1966. *The Age of Imperial Unity*. Bombay: Bharatiya Vidya Bhavan.
- Mujumdar, R.C. (ed.). 1970. *The Classical Age*. Bombay: Bharatiya Vidya Bhavan.
- Ramesh, K.V. 1984. *Chalukyas of Vatapi*. Delhi: Agam Kala Prakashan.
- Goyal, S.R. 1986. *Harsha and Buddhism*. Meerut: Kusumanjali Prakashan

IV. CORE COURSE - C 6:

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100**Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

There will be **two** group of questions. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type** six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be **two** group of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of ten questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

MUSEUM ADMINISTRATION AND PUBLIC RELATION**Theory: 75 Lectures; Tutorial:15 Lectures****I. Administrative Setup and Functions:**

- [a] Types of organizational structures
- [b] Duties and Responsibility

II. Administrative Control and personnel Management:

- [a] Role of director
- [b] Controlling: Meaning importance, purpose and process.

III. Museum Public Relations:

- [a] Public Relation in Museum and Mass Media
- [b] Museum Publication

IV. Museum Facilities:

- [a] Outdoor Museum Facilities
- [b] Indoor Museum Facilities

Essential Readings:

- R. Ganeshan – Sangrahalaya evam Jansampark (in Hindi)
- Shukla & Pandey, Vimlesh. K. – Sangrahalaya Vigyan (in Hindi)
- Sahay, Shiva Swaroop - Sangrahalaya Ki Or (in Hindi)
- Sanjay Jain – Sangrahalay Evam Sangrahalaya Vigyan: Ek Parichay (in Hindi)
- Ambrose, Timothy & Paine, Crispin – Museum Basics
- Bhattacharya, S.N. – Museum Management, New Bengal Press Press, Kolkata.2006.
- Dwivedi, V.P. & Pant, G.N. – Museums and Museology: New Horizon (Edited) Edson,
- Mclean, Fiona – Marketing the Museum Moore, Kevin (ed.) – Museum Management
- Moore, Kevin (ed) – Management in Museums
- M. L. Nigam – Fundamentals of Museology
- Hooper-Greenhill, Eilean (ed) – Museum, Media, Message
- Hooper-Greenhill, Eilean (ed) – Museums and their Visitors
- Kumar J. – Mass Communication in India

V. CORE COURSE - C 7:

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100**Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

HISTORY OF ARCHAEOLOGY

Theory: 75 Lectures; Tutorial:15 Lectures

I. Development of Archaeology:

[a] Europe

[b] Africa

II. History of Archaeology before Independence:

[a] Development of Indian Archaeology before 1861

[b] Indian Archaeology (1861-1947)

[c] Indian Archaeology after Independence

III. Eminent Archaeologist before Independence:

[a] Cunningham, Beglar

[b] John Marshall

[c] M. Wheeler

IV. Eminent Archaeologists After Independence:

[a] A. Ghosh

[b] H.D. Sankalia, M.K. Dhavalikar

[c] B.B. Lal, B.K. Thapar, S.R. Rao

[d] V.S. Wakankar,, Parmeshwari Lal Gupta

Essential Readings:

- Jai Narayan Pandey – Puratattva Vimarsh (in Hindi)
- Mortimer Wheeler – Prithvi se Puratattva (in Hindi)
- Shiv Swaroop Sahay -Bhartiya Puratattva (in Hindi)
- D.K. Chakrabarti – The Oxford Companion of Indian Archaeology
- V.K. Jain – Prehistory and Protohistory of India: An Appraisal
- Dilip K. Chakrabarti – 1988 – A History of Indian Archaeology: From the beginning to 1947
- A. Ghosh – An Encyclopaedia of Indian Archaeology

SEMESTER IV

5 Papers**Total 100 x 5 = 500 Marks****I. SKILL ENHANCEMENT COURSE SEC 2:**

(Credits: Theory-02)

Marks : 100 (ESE 3Hrs) =100**Pass Marks Th ESE = 40***Instruction to Question Setter for**End Semester Examination (ESE):*

There will be two group of questions. Group A is compulsory and will contain three questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2& 3 will be short answer type of 5 marks. Group B will contain descriptive type six questions of 20 marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

APPLICATION OF PHOTOGRAPHY IN ARCHAEOLOGY & MUSEOLOGY**Theory: 30 Lectures****I. Photography – As a Visual Language:**

- [a] photography: A Time Line
- [b] Elements of Photography
- [c] Principles of Composition

II. Photography Equipments:

- [a] Camera: Types and Formats
- [b] Lens: Types and Function
- [c] Film: Types and Use

III. Photography Techniques:

- [a] Exposure
- [b] Lights
- [c] Photo Editing

IV. Application of Photography:

- [a] Application of Photography in Archaeology
- [b] Application of Photography in Museums
- [c] Ethics of Photography in the field of Archaeology & Museology

Essential Readings:

- Photography: Taknik evam Prayog. Narendra Singh Yadav (Hindi)
- Digital Photography. Vishnu P. Singh
- The Manual of Photography by Ralph E Jacobson, Sidney F Ray and Geoffrey G Attridge – Focal Press.
- Basic Photography. M. Langford (Focal Press, London, 1986).
- The Focal Encyclopedia of Photography. (Macmillan, New York, 1969).
- Life Library of Photography ‘The Camera’ by the Editors of Time-Life Books.
- Complete Digital Photography by Ben Long.
- Langford's Basic Photography: The guide for serious photographers by Michael Langford, Anna Fox.
- LIFE Guide to Digital Photography: Everything You Need to Shoot Like Pros by Joe McNally, Editors of Life.
- Understanding Exposure, 3rd Edition: How to Shoot Great Photographs with Any Camera by Bryan Peterson.
- Camera: A History of Photography from Daguerreotype to Digital by Todd Gustavson

II. GENERIC ELECTIVE (GE 4)

(Credits: 06)

All Four Papers (One paper to be studied in each semester) of any One Subject to be opted other than the Honours Subject. Refer Content from the Syllabus of Opted Generic Elective Subject.

III. CORE COURSE - C 8:

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100**Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

There will be **two** group of questions. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type** six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be **two** group of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of ten questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

PREHISTORIC CULTURE OF INDIA**Theory: 75 Lectures; Tutorial:15 Lectures****I. Lower and Middle Paleolithic:**

- [a] Prehistoric: Subject matter/scope and aim
- [b] Lower Paleolithic Culture
- [c] Middle Paleolithic culture

II. Upper Paleolithic and Mesolithic Culture:

- [a] Upper Paleolithic culture
- [b] Mesolithic culture

III. Rock Art and Neolithic Culture:

- [a] Rock Arts in India
- [b] Neolithic culture- North and East India
- [c] Neolithic culture- West and South India

Essential Readings:

- Jai Narayan Pandey – Puratattva Vimarsh
- Shiv Swaroop Sahay – Bhartiya Puratattva
- D.K. Chakravarti – The Oxford Companion of Indian Archaeology
- V.K. Jain – Prehistory and Protohistory of India: An Appraisal
- A. Ghosh – An Encyclopaedia of Indian Archaeology
- Dharendra Nath Majumdar & Gopal Sharan – Pragitihas
- Erwin Neumayer – 2010 – Rock art of India
- H.D. Sankalia – Prehistory and Protohistory of India and Pakistan

IV. CORE COURSE - C 9:

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100**Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for
Mid Semester Examination (MSE):***

There will be **two** group of questions. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type** six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be **two** group of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of ten questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

PROTOHISTORIC CULTURE OF INDIA**Theory: 75 Lectures; Tutorial:15 Lectures****I. Rise of Civilization:**

- [a] Pre Harappan culture
- [b] Early Harappan culture
- [c] Mature Harappan culture

II. Late Harrapan and Copper Hoard:

- [a] Late Harappan Culture
- [b] Copper Hoard

III. Chalcolithic Culture:

- [a] Central Indian Chalcolithic
- [b] Deccan Chalcolithic

IV. Iron Age:

- [a] Iron Age-North India
- [b] Iron Age-South India
- [c] Megalithic culture

Essential Readings:

- Jai Narayan Pandey – Puratattva Vimarsh
- Shiv Swaroop Sahay – Bhartiya Puratattva
- D.K. Bhattacharya – An Outline of Indian Prehistory
- V.K. Jain – Prehistory and Protohistory of India: An Appraisal
- A. Ghosh – An Encyclopaedia of Indian Archaeology
- H.D. Sankalia – Prehistory and Protohistory of India and Pakistan
- H.D. Sankalia – Indian Archaeology Today
- V. Shinde – The Deccan Chalcolithic: A Recent Perspective, Man & Environment. XIX (1-2) 169
- Vibha Tripathy – The Painted Grey ware: An Iron Age Culture of North India.1976
- Vibha Tripathy – Age of Iron in South Asia: Legacy and Tradition.2001.
- Wright Rita P. – The Ancient Indus: Urbanism, Economy and Society.

V. CORE COURSE - C 10:

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100**Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for
Mid Semester Examination (MSE):***

There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

MUSEUM COLLECTION & DOCUMENTATION**Theory: 75 Lectures; Tutorial:15 Lectures****I. Collection:**

- [a] Purposes of collecting
- [b] Scope of collection—tangible and intangible
- [c] Methods of collection

II. Documentation:

- [a] Meaning, Purpose and importance of documentation
- [b] Introduction to system and process of documentation - Accessioning
- [c] Types of documents: entry, accession, movement registers, index and catalogue card.

III. Collection Storage:

- [a] Meaning, importance and types.
- [b] Purposes and factors that govern design of collection stores.
- [c] Storage systems.

IV. Safety and Security of Museum Collection:

- [a] Threat to Collections – Theft, Fire, Natural disaster.
- [b] Museum Security: Security personnel, Planning for disaster.
- [c] Modern Security system and devices.

Essential Readings:

- R. Ganeshan – Sangrahalaya evam Jansampark (in Hindi)
- Shukla & Pandey, Vimlesh. K. – Sangrahalaya Vigyan (in Hindi)
- Sahay, Shiva Swaroop - Sangrahalaya Ki Or (in Hindi)
- Sanjay Jain – Sangrahalay Evam Sangrahalaya Vigyan: Ek Parichay (in Hindi)
- Singh Arbind Kumar – Sangrahalaya Vigyan, MPHGA Bhopal (in Hindi)
- Rai D. Chaudhary – Sangrahalaya Vigyan, Alankar Prakashan, (in Hindi)
- Agrawal, O.P. – Security in Museums (Edited)
- Ambrose, Timothy & Paine, Crispin – Museum Basics
- Dudley, Dorothy, et al – Museum Registration Methods
- Dwivedi, V.P. & Pant, G.N. – Museums and Museology: New Horizon (Edited) Edson, Gary & Dean, David – The Handbook for Museums
- Fahy, Anne (ed.) – Collections Management
- Fenneley – Museum, Archive & Library Security
- Hunter, Eric J – Computerized Cataloguing
- ICOM – Museum Security and Protection: A Hand Book for Cultural Heritage Institutions
- Knell, Simon (ed.) – Care of Collections
- Light, F B, Roberts, D A, Stewarts, J D – Museum Documentation System
- Liston, David (ed.) – Museum Security and Protection
- Pearce, Susan M (ed.) – Interpreting Objects and Collections
- Pearce, Susan M – On Collecting
- Roy Chowdhury, Anil – Art Museum Documentation and Practical Handling
- Sarasan, L & Neuner, A M – Museum Collection and Computers
- Thomson John M A, et al (ed.) – Manual of Curatorship
- Tillotson, Robert G – Museum Security
- UNESCO – Field Manual for Museums

SEMESTER V

4 Papers**Total 100 x 4 = 400 Marks**

(Credits: Theory-05, Tutorial-01)

I. DISCIPLINE SPECIFIC (DSE 1):**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

ANCIENT WORLD CIVILIZATION**Theory: 75 Lectures; Tutorial:15 Lectures****I. Central Asia:**

[a] Mesopotamia- Sumeria, Assyria

[b] Iran (Persian), Hittites

II. South-East Asia:

[a] Indus Valley Civilization,

[b] Vedic Civilization

[b] Chinese Civilization

III. Europe and Africa:

[a] Ancient Greece and Roman Civilization

[b] Ancient Egypt

IV. North and South America:

[a] Mayan

[b] Inca

[c] Aztec

Essential Readings:

- S. M. Pathak, Vishwa Ke Pracheen Sabhyataon Ka Itihas (in Hindi)
- Shiv Swaroop Sahay – Vishva ki Pracin Sabhyataein (in Hindi)
- Prachintam Prachya sabhyataon par Naya Prakash (in Hindi)
- J.H. Breasted (a) Ancient Times (2 Vols.), 1916,
(b) A History of Ancient Egyptians, New York, 1960
(c) A History of Egypt, New York, 1960,
(d) The Origin of Civilization.
- H.R. Hall, Ancient History of the Near East, Methuen & Co. Ltd, London 1963
- H.A. Davis, an Outline History of the World, OUP, New Delhi, 2002 (Reprint)
- W.M.A. Peter, History of Egypt (6 Vols.), 1894-1905
- H.R. Winlock, The Rise and fall of the Middle Kingdom in Thebes, New York, 1947
- L.J. Della Porte, Mesopotamia: The Babylonian and Assyrian Civilization (Trans. B.G. Child) New York, 1925
- M. Jesto, the Civilization of Babylonian and Assyrian, Philadelphia, 1915
- L.W. King, (a) A History of Sumer and Akkad, 1910 (b) A History of Babylon, 1915
- R.W. Rogers, a History of Babylonia and Assyria, (2 Vols.) New York, 1915
- A.T. Owmsted, History of Assyria, New York, 1923
- S. Smith, Early History of Assyria, London, 1928
- Will Durant, Our Oriental Heritage

II. DISCIPLINE SPECIFIC (DSE 2):

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100**Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for
Mid Semester Examination (MSE):***

There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

HERITAGE AND SITES OF INDIA**Theory: 75 Lectures; Tutorial:15 Lectures****I. Introduction to Heritage:**

- [a] Meaning and Concept of Heritage
- [b] Types of Heritage: Tangible, Intangible and Natural Heritage
- [c] Traditional Knowledge System & Its Preservation

II. Issues Related to Heritage:

- [a] Heritage and Tourism
- [b] Problems and Future of heritage
- [c] Heritage Awareness Programmes

III. Ethics and legal procedures regarding heritage:

- [a] Fakes and forgeries, Illicit trafficking, Poaching of endangered species of natural heritage
- [b] National and International laws governing heritage
- [c] International developments on Heritage; role of UNESCO.

IV. Major Heritage Sites of India:

- [a] Tangible Heritage Sites: Bhimbetka, Dhaulavira, Rakhigarhi, Lothal, Burzhom.
- [b] Intangible Heritage: Kumbh, Pushkar, Sonpur, Mathura Lathmar Holi, Durga Puja of Bengal
- [c] Natural Heritage Sites: Valley of Flower, Majuli Island, Loktak Lake, Sundarban, Nilgiri
- [d] Heritage Cities: Varanasi, Pudducheri, Goa, Jaipur, Ahmadabad.

Essential Readings:

- Biswas, S S – Protecting the Cultural Heritage (National Legislations and International Conventions).
- Albert, Marie-Theres; Bernecker, Roland; and Rudolff, Britta (Eds.) – Understanding Heritage: Perspectives in Heritage Studies
- Albert, Marie-Theres – Perceptions of Sustainability in Heritage Studies
- Albert, Marie-Theres and Ringbeck, Birgitta – 40 Years World Heritage Convention: Popularizing the Protection of Cultural and Natural Heritage
- Harrison, Rodney – Heritage: Critical Approaches
- Logan, William; Nic Craith, Máiréad; and Kockel, Ullrich (Eds.) – A Companion to Heritage Studies
- Smith, Laurajane – Uses of Heritage
- Sørensen, Marie Louise Stig and Carman, John (Eds.) – Heritage Studies: Methods and Approaches

III. CORE COURSE -C 11:

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100**Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

ART AND ARCHITECTURE OF INDIA**Theory: 75 Lectures; Tutorial:15 Lectures****I. Buddhist Architecture:**

- [a] Early Indian Architecture
- [b] Stupa
- [c] Chaitya
- [d] Vihara

II. Temple Architecture:

- [a] Nagara
- [b] Vesara
- [c] Dravida

III. Rock Cut Architecture:

- [a] Early Rock Cut Caves
- [b] Rock cut architecture of Deccan
- [c] Rock cut architecture of western Deccan

IV. Indian Art:

- [a] Sculptures
- [b] Paintings
- [c] Terracotta
- [d] Metal and stone (Precious and Semi-Precious)

Essential Readings:

- Shiv Swaroop Sahay – Prachin Bhartiya Stupa, Mandir va Guha
- Percy Brown – Indian Architecture
- Krishna Deva – Temples of India – Vol. 1&2
- Edith Tomory – A History of Fine Arts in India and the West
- Uday Narayan Rai – Bhartiya Kala

IV. CORE COURSE -C 12:

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100**Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

MUSEUM EDUCATION**Theory: 75 Lectures; Tutorial:15 Lectures****I. Museum Learning:**

- [a] Role of museum in formal, non-formal and informal learning.
- [b] Difference between learning in museums and other sources of learning.
- [c] Factors that prevent people from learning from museums.

II. Museum Education:

- [a] Management of education services - education policy, resources and development
- [b] Stages of organizing visits of children, adults and special groups.
- [c] Training of school teachers and education staff.

III. Educational Programmes:

- [a] Education programs: Tours, Lectures, Workshops, Gallery talks, Discovery rooms and participation-based activities etc. for different target groups
- [b] Extension services: Significance, Mobile exhibitions, School loan kits, Museum corner.

IV- Museum publications:

- [a] Meaning and purposes.
- [b] Types of museum publications.
- [c] Role of library in a museum.

Essential Reading:

- R. Ganeshan – Sangrahalaya evam Jansampark (in Hindi)
- Shukla & Pandey, Vimlesh. K. – Sangrahalaya Vigyan (in Hindi)
- Sahay, Shiva Swaroop - Sangrahalaya Ki Or (in Hindi)
- Sanjay Jain – Sangrahalay Evam Sangrahalaya Vigyan: Ek Parichay (in Hindi)
- Singh Arbind Kumar – Sangrahalaya Vigyan, MPHGA Bhopal (in Hindi)
- Rai D. Chaudhary – Sangrahalaya Vigyan, Alankar Prakashan, (in Hindi)
- Ambrose, Timothy., (Ed.), Education in Museums: Museums in Education, Scottish Museums Council: Edinburgh, 1987
- Fairley, John A., History teaching through Museums, Longman: London, 1977.
- Falk & Dierking (eds.), Learning from Museums, 2000.
- Hein, George., Learning in the Museum, Routledge, 1998
- Hooper-Greenhill, Eilean., Museum and Gallery Education, Leicester University Press: Leicester, 1991
- Hooper-Greenhill, Eilean., (ed.), Initiatives in Museum Education, Department of Museum Studies,
- ICOM/CECA, Museums and Education, Danish ICOM/CECA, Denmark, 1982.
- Kavanagh, Gaynor., History Curatorship, Smithsonian Institution Press, Washington DC, 1990.
- MAI, Journal of Indian Museums, Volume XXXVI 1980.
- MAI, Journal of Indian Museums, Volume XLVIII 1992.
- Roberts. Lisa, C., From Knowledge to Narrative: Educators and the Changing Museum, Smithsonian Institution Press, Washington DC and London, 1997

SEMESTER VI**4 Papers****Total 100 x 4 = 400 Marks****I. DISCIPLINE SPECIFIC (DSE 3):**

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100**Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

CULTURAL HISTORY OF JHARKHAND**Theory: 75 Lectures; Tutorial:15 Lectures****I. An Introduction to culture of Jharkhand:**

- [a] Concept of culture, Oral tradition and its importance
- [b] Brief Introduction to the cultural history of Jharkhand
- [c] Megalithic Culture in Jharkhand

II. Heritage of Jharkhand

- [a] Palamu fort, Doisagarh fort, Teliagarhi fort
- [b] Deoghar, Maluti temple complex
- [c] Benisagar, Tanginath, Itkhori

III. Art of Jharkhand

- [a] Rock art and folk paintings
- [b] Traditional Musical Instrument of Jharkhand
- [c] Tribal art and Craft

IV. Nagvanshi of Chotanagpur

- [a] Introduction
- [b] Antiquarian Remain (inscription and Monuments)
- [c] Khukhregarh: A Capital of Nagvanshis

Essential Readings:

- D.R. Patil – Antiquarian Remains of Bihar
- C.P. Sinha & A.S. Roy – An Introduction of Prehistory and Protohistory of Jharkhand
- C.P. Sinha – Jharkhand ke Pramukh Shiv Mandir
- B.P. Sinha – Directory of Bihar Archaeology
- Dilbar Bhengra – Archaeology of Chotanagpur Division
- B.K. Jamuar – Temples of Bihar
- Swati Roy & R.K. Chattopadhyay – Itkhori
- R.L. Mitra – Temples of Devghar, JASB
- Chunnilal Ray – Notes on Some Ruins at Majhgaon in the District of Ranchi. Vol-1, 1995
- L.Aditya – Recently Explored Rock Art Sites of Jharkhand, The Journal of Bihar Puravid Parishad 27-28
- L.Aditya & Udesh Kumar – New Perspective on Buddhism in Jharkhand during 9th-10th CE with special reference to Itkhori, R.C. Agarwalla Felicitation Volume
- Geeta Ojha – Rock Art in India: With Special reference to Isko Rock Art Hazaribagh Bihar Puratattva p. 25.
- A.K. Prasad – Important Discoveries of Prehistoric Rock Paintings: Ancient Inscription and Stone Age Tools in Southern Bihar and Adjoining Jharkhand
- G.Jha & Basanta Mohanta – Recent Discovery of a Rock Art: A Preliminary Study- Kosala -7

II. DISCIPLINE SPECIFIC (DSE 4):

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100**Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE): be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

MUSEUM EXHIBITION**Theory: 75 Lectures; Tutorial:15 Lectures****I. Display and Exhibition:**

- [a] Definition and Objectives of Exhibition
- [b] General theories of exhibition
- [c] Types of exhibitions

II. Planning of Exhibition:

- [a] Circulation: Random, Suggestive, Directional
- [b] Preparation of exhibition brief, Exhibition team
- [c] Stages and Schedule of work

III. Exhibition Furniture and Accessories:

- [a] Types of Exhibition Furniture
- [b] Factors governing design
- [c] Exhibition Lighting

IV. Exhibition Equipment and Aids

- [a] Types of Label
- [b] Visual Verbal Aids
- [c] Types of Exhibits

Essential Reading:

- Shukla & Pandey, Vimlesh. K. – Sangrahalaya Vigyan (in Hindi)
- Sahay, Shiva Swaroop - Sangrahalaya Ki Or (in Hindi)
- Sanjay Jain – Sangrahalay Evam Sangrahalaya Vigyan: Ek Parichay (in Hindi)
- Singh Arbind Kumar – Sangrhalaya Vigyan, MPHGA Bhopal (in Hindi)
- Rai D. Chaudhary – Sangrahalaya Vigyan, Alankar Prakashan, (in Hindi)
- Bedekar, V.H., So You want Good Museum Exhibitions, Dept. Of Museology, M. S. University of Baroda, 1978.
- Belcher, Michael., Exhibitions in Museums, Leicester University Press: Leicester, 1991
- Dean, david., Museum Exhibition: Theory and Practice, Routledge: London and New York, 1994.
- Kavanagh, Gaynor., History Curatorship, Smithsonian Institution Press, Washington DC, 1990.
- Miles, R.S. (ed.), Design of Educational Exhibits, Allen & Unwin: London, 1982
- North, F.J., Museum Labels: Handbook for Museum Curators, pt B, sect.3. The Museums Association: London, 1957.
- ROM, Communicating with the Museum Visitor, Royal Ontario Museum: Toronto, 1976.
- Serrell, Beverly., Making Exhibit Labels: a Step by Step Guide, AASLH: Nasnville.

III. CORE COURSE -C 13:

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100**Pass Marks (MSE + ESE) =40***Instruction to Question Setter for**Mid Semester Examination (MSE):*

There will be **two** group of questions. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type** six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be **two** group of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of ten questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

INDIAN NUMISMATICS**Theory: 75 Lectures; Tutorial:15 Lectures****I. Introduction:**

- [a] Definition, Aim and Scope of Numismatics
- [b] Origin and evolution of coinage (India)
- [c] History of Numismatic studies India,

II. Study of Coins:

- [a] Finding of coins
- [b] Study of coins- Typology
- [c] Inscriptions, symbols, Description of coins
- [d] Terminology used in Numismatics studies

III. Coin Minting:

- [a] History, Metallurgy
- [b]Type of coin Minting
- [c] Moulding

IV. Study in Punch Mark Coins:

- [a] Distribution and chronology
- [b] Symbols and Classification
- [b] Literary evidences, Measurements

Essential Readings:

- Allan, J. 1935. Catalogue of Coins of Ancient India. London: British Museum
- Altekar, A.S., 1937. Catalogue of Coins of the Gupta Empire. Varanasi: Numismatic Society of India.
- Bhandarkar, D.R., 1921. Carmichael Lectures on Ancient Indian Numismatics. Calcutta: Calcutta University.
- Bharadwaj, H.C. 1979. Aspects of Ancient Indian Technology. Delhi: Motilal Banarasidas.
- Chattopadhyaya, Bhaskar 1967. The Age of the Kushanas – A Numismatic Study. Calcutta: Punthi Pustak.
- Dasgupta, K.K. 1974. A Tribal History of Ancient India – A Numismatic Approach. Calcutta: Nababharat Publications.
- Datta, Mala 1990. A Study of the Satavahana coinage. Delhi: Harman Publishing House.
- Handa, Devendra 2007. Tribes Coins of Ancient India. New Delhi: Aryan Books International.
- Gardener, P. 1886. The Coinage of the Greek and Scythic Kings of Bactria and India in British Museum. London: British Museum.
- Gupta, P.L. 1979. (2nd Revised Edition) Coins. New Delhi: National Book Trust.
- Rajgor, Dilip 2001. Punch-Marked Coins of Early Historic India. California: Reesha Books International.
- Ray, S.C. 1977. The Stratigraphic Evidence of Coins in Indian Excavations and Some Allied Issues. Varanasi: Numismatic Society of India.
- Sahni, Birbal 1973. The Technique of Casting Coins in Ancient India. Varanasi: Bharatiya Publishing House.
- Sarma, I.K. 1980. Coinage of the Satavahana Empire. Delhi: Agam Kala Prakashan.
- Srivastava, A.K. 1969. Catalogue of Indo-Greek Coins in the State Museum, Lucknow. Lucknow: State Museum.
- Whitehead, R.B. 1910. Catalogue of Coins in the Punjab Museum, Lahore, Vol. I: Indo-Greek Coins. Oxford: Clarendon Press.

IV. CORE COURSE -C 14:

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100**Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

PREVENTIVE CONSERVATION**Theory: 75 Lectures; Tutorial:15 Lectures****I. Basics of Conservation:**

- [a] Definitions of Conservation
- [b] Nature & Properties of Collections
- [c] Susceptibility of Materials

II. Causes and Types of Deterioration.

- [a] Environmental Factors
- [b] Biological Factors
- [c] Human Factor
- [d] Disasters

III. Preventive Conservation:

- [a] Significance and Effectiveness of Preventive Conservation
- [b] Environmental Control
- [c] Tools and Equipments

IV. Integrated Pest Management and Handling

- [a] Identification, Control and Termination of Pests
- [b] Various Fungicides, Insecticides and Rodenticides Used in IPM.
- [c] Good Practices of Housekeeping and Rules of Handling Museum Objects

Essential Readings:

- Agrawal, O.P. – Preservation of Art Objects and Library Materials
- Agrawal, O.P. – Kala Vastuon evam Pustakaliya Samagriyon ka Parirakshan (in Hindi)
- Ambrose, Timothy & Paine, Crispin – Museum Basics
- Banerjee, N.R. – Museum and Cultural Heritage in India
- Dwivedi, V.P. & Pant, G.N. – Museums and Museology: New Horizon (Edited)
- Pandey, Vimlesh. K. – Sangrahalaya Vigyan (in Hindi)
- Sarkar, H – Museums and Protection of Monuments and Antiquities in India
- Singh, R.S. – Conservation of Documents in Libraries, Archives and Museums
- Thomson Garry – The Museum Environment
- UNESCO – Field Manual for Museums

COURSES OF STUDY FOR **GENERIC ELECTIVE ‘B. A. Hons’** PROGRAMME IN
“ARCHAEOLOGY & MUSEOLOGY”

SEMESTER I**GENERIC ELECTIVE****1 Paper****Total 100 x 1 = 100 Marks****I. GENERIC ELECTIVE (GE 1)**

(Credits: Theory-05, Tutorial-01)

- All Four Generic Papers (One paper to be studied in each semester) of History to be studied by the Students of **Other than Archaeology & Museology Honours**.
- Students of **Archaeology & Museology Honours** must Refer Content from the **Syllabus of Opted Generic Elective Subject**.

Marks : 100 (ESE 3Hrs) =100**Pass Marks Th ESE = 40***Instruction to Question Setter for**End Semester Examination (ESE):*

*There will be two group of questions. **Group A is compulsory** and will contain three questions. **Question No.1 will be very short answer type** consisting of ten questions of 1 mark each. **Question No.2& 3 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of 20 marks each, out of which any four are to answer.*

***Note:** There may be subdivisions in each question asked in Theory Examinations.*

MUSEUM AND SOCIETY**Theory: 75 Lectures; Tutorial:15 Lectures****I. Museum and Society:**

- [a] Role of museums in Society
- [b] Museum as an educational institution
- [c] Need and strategies for popularizing museums

II. Museum and Culture:

- [a] Concept of culture and its attributes
- [b] Museum as a cultural centre
- [c] Museum as a guardian and propagator of culture

III. Museum and Tourism:

- [a] Concept of Tourism
- [b] Types of Tourism
- [c] Role of museum in promoting tourism

IV. Museum and Community:

- [a] Communities and their Cultural Traditions
- [b] Concept and Types of Community Museums
- [c] Role of community museums in safeguarding traditional knowledge and practices

Essential Reading:

- Alexander, Edward P. *Museums in Motion: An Introduction to the History and Functions of Museums*. American Association for State & Local History, 1978
- Baxi, S. J. and Dwivedi, V. P. *Modern Museums*. Abhinav Publications, Delhi, 1973
- Bedekar, V.H. *New Museology for India*. National Museum Institute of History of Art, Conservation, and Museology, New Delhi, 1995
- Bhatnagar, Anupama. *Museums, Museology and New Museology*. Sundeep Prakashan., New Delhi, 2000
- Biswas, S. S. *Protecting the Cultural Heritage: National Legislations and International Conventions*. Aryan Books International, 1999
- Jain, Sunjay: *Museums Avam Museology: Ek Parichaya (in Hindi)* Karika Prakshan, Baroda 2001.
- Burcaw, G.E., *Introduction to Museum Work*, AASLH, 1979.
- Banerjee, N.R. *Museum and Cultural Heritage*.
- Fleming, David., Paine, Crispin., and Rhodes, Jhon G. (eds)., *Social History in Museums: A Handbook for Professionals*, HMSO, London, 1993.
- Gilman, Benjamin, E. *Museum ideals of purpose and method*. Cambridge, 1918
- Morley, Grace. *Museums Today*. Department of Museology, Baroda, 1981
- Prakash, Satya. *Museums and Society*. Department of Museology, The Maharaja Sayajirao University of Baroda, 1964.
- Wittlin, Alma S, *Museums in search of Useable Future*, MIT press, Cambridge, London, 1970

SEMESTER II**GENERIC ELECTIVE****1 Paper****Total 100 x 1 = 100 Marks**

(Credits: Theory-05, Tutorial-01)

II. GENERIC ELECTIVE (GE 2)**Marks : 100 (ESE 3Hrs) =100****Pass Marks Th ESE = 40*****Instruction to Question Setter for******End Semester Examination (ESE):***

There will be two group of questions. Group A is compulsory and will contain three questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2& 3 will be short answer type of 5 marks. Group B will contain descriptive type six questions of 20 marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

INDIAN HERITAGE AT A GLANCE**Theory: 75 Lectures; Tutorial:15 Lectures****I. Religious Architecture:**

- [a] Buddhist Architecture
- [b] Hindu Architecture
- [c] Other Architectures

II. Secular Architecture:

- [a] First Urbanization
- [b] Second Urbanization

III. Indian Plastic Art:

- [a] Terracotta
- [b] Sculpture
- [c] Metal and Stone

IV. Indian Visual Art:

- [a] Ajanta Mural
- [b] Indian Schools of Paintings
- [c] Renowned Painters in Colonial Times- Raja Ravi Verma and Jamini Roy

Essential Readings:

- Basham A.L., The Wonder that was India. Volume I, New Delhi
- Brown Percy, Indian Architecture, Buddhist Hindu and Islamic, Vol. I, II, Mumbai, 1956
- Chandra Prainod, ed, Studies in Indian Temple Architecture; Chapter 1. AIIS, 1975.
- Banerjea J.N.: The Development of Hindu Iconography, Calcutta, 1956
- Bussagli M and Srivaramamurthy C.: 5000 Years of Indian Art, New York, n.d.
- History and Culture of the Indian People, Bharatiya Vidya Bhavan Series.
- Huntington Susan L: The Art of Ancient India, Tokyo New York, 1985.
- Kramrisch, Stella, The Art of India, Orient Book Depot. Delhi, 1987.

SEMESTER III**GENERIC ELECTIVE****1 Paper****Total 100 x 1 = 100 Marks**

(Credits: Theory-05, Tutorial-01)

III. GENERIC ELECTIVE (GE 3)**Marks : 100 (ESE 3Hrs) =100****Pass Marks Th ESE = 40***Instruction to Question Setter for**End Semester Examination (ESE):*

*There will be two group of questions. **Group A is compulsory** and will contain three questions. **Question No.1 will be very short answer type** consisting of ten questions of 1 mark each. **Question No.2& 3 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of 20 marks each, out of which any four are to answer.*

***Note:** There may be subdivisions in each question asked in Theory Examinations.*

ARCHIVES IN INDIA**Theory: 75 Lectures; Tutorial:15 Lectures****I. Introduction to Archives:**

- [a] Meaning and Definition of Archive
- [b] History and Development Archives in India
- [c] Characteristics of Archive

II. Role and Function:

- [a] Role of Archives
- [b] Functions of Archives
- [c] Archival Ethics

III. Organization and Archives in India:

- [a] Organization of Archives
- [b] Copy Right and Legal Issues
- [c] Select Archives of India

IV. Importance and Future of Archives:

- [a] Importance of Archives
- [b] Technological Advancements in Archives
- [c] Government of India Initiatives for Preservation

Essential Readings:

- IASA Training manual. IASA Bulletin No, 58/June 1991
- Agrawal. O.P. Preservation of Art Objects and Library Materials. National Book Trust, India: New Delhi. 1993.
- Ghosh. Sailen. Archives in India. Firma K.L. Mukhopadhyay: Calcutta. 1963.
- Lance. David. (ed). Sound Archives: A Guide to their Establishment and Development. International Association of Sound Archives. 1983.
- Nancy, Mackay. Curating Oral Histories: From Interview to Archives. Left Coast Press Inc.: California. 2007.

SEMESTER IV**GENERIC ELECTIVE****1 Paper**

Total 100 x 1 = 100 Marks**II. GENERIC ELECTIVE (GE 4)**

(Credits: Theory-05, Tutorial-01)

Marks : 100 (ESE 3Hrs) =100**Pass Marks Th ESE = 40*****Instruction to Question Setter for******End Semester Examination (ESE):***

There will be two group of questions. Group A is compulsory and will contain three questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2& 3 will be short answer type of 5 marks. Group B will contain descriptive type six questions of 20 marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

GLIMPSE OF JHARKHAND THROUGH TIME AND SPACE**Theory: 75 Lectures; Tutorial:15 Lectures****I. Early Cultures in Jharkhand:**

- [a] Megalithic Culture of Jharkhand
- [b] Excavated site: Khunti Toli
- [c] Asur Site: Saridkel, Belwadag, Kunjla

II. Nagvanshi of Chotanagpur:

- [a] Introduction
- [b] Archaeological Remains
- [c] Khukhragarh

III. Chero of Palamau:

- [a] Introduction
- [b] Archaeological Remains

IV. Traditional Art of Paintings:

- [a] Rock Art
- [b] Contemporary Painting Forms: Sohrai, Kohbar, Jadopatia and others

Essential Readings:

- D.R. Patil – Antiquarian Remains of Bihar
- C.P. Sinha & A.S. Roy – An Introduction of Prehistory and Protohistory of Jharkhand
- C.P. Sinha – Jharkhand ke Pramukh Shiv Mandir
- B.P. Sinha – Directory of Bihar Archaeology
- Dilbar Bhengra – Archaeology of Chotanagpur Division
- B.K. Jamuar – Temples of Bihar
- Swati Roy & R.K. Chattopadhyay – Itkhori
- R.L. Mitra – Temples of Devghar, JASB
- Chunnilal Ray – Notes on Some Ruins at Majhgaon in the District of Ranchi. Vol-1, 1995
- L.Aditya – Recently Explored Rock Art Sites of Jharkhand, The Journal of Bihar Puravid Parishad 27-28
- L.Aditya & Udesb Kumar – New Perspective on Buddhism in Jharkhand during 9th-10th CE with special reference to Itkhori, R.C. Agarwalla Felicitation Volume
- Geeta Ojha – Rock Art in India: With Special reference to Isko Rock Art Hazaribagh Bihar Puratattva p. 25.
- A.K. Prasad – Important Discoveries of Prehistoric Rock Paintings: Ancient Inscription and Stone Age Tools in Southern Bihar and Adjoining Jharkhand
- G.Jha & Basanta Mohanta – Recent Discovery of a Rock Art: A Preliminary Study- Kosala -7

SAMPLE CALCULATION FOR SGPA & CGPA FOR UNDERGRADUATE 'B.Sc./B.A./B.Com
Honours & General' PROGRAMME

Distribution of Credits Semester wise for Undergraduate Honours Courses

Table B-1: UG (B.A./ B.Sc./B.Com. Hons. Programme) Semester wise

distribution of 140 Credits

	C.C	AECC	GE	SEC	DSE	Total credits
Semester I	12	02	06			20
Semester II	12	02	06			20
Semester III	18		06	02		26
Semester IV	18		06	02		26
Semester V	12				12	24
Semester VI	12				12	24
	84	04	24	04	24	140

CC=Core Course; AECC=Ability Enhancement Compulsory Course; GE=Generic Elective; SEC=Skill Enhancement Course; DSE=Discipline Specific Elective

Table B-2: UG (B.A./ B.Sc./B.Com. Programme) Semester wise distribution of

120 Credits

	C.C	AECC	GE	SEC	DSE	Total credits
Semester I	18	02				20
Semester II	18	02				20
Semester III	18			02		20
Semester IV	18			02		20
Semester V				02	18	20
Semester VI				02	18	20
	72	04		08	36	120

CC=Core Course; AECC=Ability Enhancement Compulsory Course; GE=Generic Elective; SEC=Skill Enhancement Course; DSE=Discipline Specific Elective

Table B-3: Sample calculation for SGPA for B.Sc./B.A./B.Com Honours Programme

Course	Credit	Grade Letter	Grade Point	Credit Point (Credit X Grade)	SGPA (Credit Point/Credit)
Semester I					
C-1	06	A	8	48	
C-2	06	B+	7	42	
AECC-1	02	B	6	12	
GE-1	06	B	6	36	
Total	20			138	6.9 (138/20)
Semester II					
C-3	06	B	6	36	
C-4	06	C	5	30	
AECC-2	02	B+	7	14	
GE-2	06	A+	9	54	
Total	20			134	6.7 (134/20)
Semester III					
C-5	06	A+	9	54	
C-6	06	O	10	60	
C-7	06	A	8	48	
SEC-1	02	A	8	16	
GE-3	06	O	10	60	
Total	26			238	9.15 (238/26)
Semester IV					
C-8	06	B	6	36	
C-9	06	A+	9	54	
C-10	06	B	6	36	
SEC-2	02	A+	9	18	
GE-4	06	A	8	48	
Total	26			192	7.38 (192/26)
Semester V					
C-11	06	B	6	36	
C-12	06	B+	7	42	
DSE-1	06	O	10	60	
DSE-2	06	A	8	48	
Total	24			186	7.75 (186/24)
Semester VI					
C-13	06	A+	9	54	
C-14	06	A	8	48	
DSE-3	06	B+	7	42	
DSE-4	06	A	8	48	
Total	24			192	8.0 (192/24)
CGPA					
Grand Total	140			1080	7.71 (1080/140)

Table B-4: Sample calculation for CGPA for B.Sc./B.A./B.Com Honours Programme

Semester I	Semester II	Semester III	Semester IV	Semester V	Semester VI
Credit:20; SGPA:6.9	Credit:20; SGPA: 6.7	Credit:26; SGPA: 9.15	Credit:26; SGPA: 7.38	Credit:24; SGPA: 7.75	Credit:24; SGPA: 8.0

Thus CGPA= (20x6.9+20x6.7+26x9.15+26x7.38+24x7.75+24x8.0)/140=7.71

Table B-5: Sample calculation for SGPA for B.A./B.Sc./B.Com. Program

Course	Credit	Grade Letter	Grade Point	Credit Point (Credit X Grade)	SGPA (Credit Point/Credit)
Semester I					
DSC - 1A	06	B	6	36	
DSC - 2A	06	B+	7	42	
DSC - 3A	06	C	5	30	
AECC – 1	02	B	6	12	
Total	20			120	6.0 (120/20)
Semester II					
DSC - 1B	06	B	6	36	
DSC - 2B	06	B	6	36	
DSC - 3B	06	C	5	30	
AECC – 2	02	A+	9	18	
Total	20			120	6.0 (120/20)
Semester III					
DSC - 1C	06	A	8	48	
DSC - 2C	06	A+	9	54	
DSC - 3C	06	A	8	48	
SEC – 1	02	A	8	16	
Total	20			166	8.3 (166/20)
Semester IV					
DSC - 1D	06	C	5	30	
DSC - 2D	06	B	6	36	
DSC - 3D	06	B+	7	42	
SEC - 2	02	A+	9	18	
Total	20			126	6.3 (126/20)
Semester V					
DSE - 1A	06	B	6	36	
DSE - 2A	06	A+	9	54	
DSE - 3A	06	A	8	48	
SEC – 3	02	B	6	12	
Total	20			150	7.5 (150/20)
Semester VI					
DSE - 1B	06	B+	7	42	
DSE - 1B	06	B	6	36	
DSE - 1B	06	C	5	30	
SEC - 4	02	C	5	10	
Total	20			118	5.9 (118/20)
CGPA					
Grand Total	120			800	6.67 (800/120)

Table B- 6: Sample calculation for CGPA for B.A./B.Sc./B.Com. Program

Semester I	Semester II	Semester III	Semester IV	Semester V	Semester VI
Credit:20; SGPA: 6.0	Credit:20; SGPA: 6.0	Credit:20; SGPA: 8.3	Credit:20; SGPA: 6.3	Credit:20; SGPA: 7.5	Credit:20; SGPA: 5.9

Thus CGPA= (20x6.0+20x6.0+20x8.3+20x6.3+20x7.5+20x5.9)/120=6.67

MARKS DISTRIBUTION FOR EXAMINATIONS AND FORMAT OF QUESTION PAPERS

Marks Distribution of Mid Semester Theory Examinations:**Table No. C1:** Marks distribution of Theory Examinations of Mid Semester

Topic	Code	Full Marks	Pass Marks	Time	Group-A (Very short answer type Compulsory Questions) No. of Questions x Marks = F.M.	Group-B (Descriptive Questions with Choices) No. of Questions x Marks = F.M.	Total No. of Questions to Set	
							Group A	Group B
Mid Sem*	T15	15	6	1 Hr	5 x 1 = 5	2 (out of 3) x 5 = 10	5	3
	T25	25	10	1 Hr	5 x 1 = 5	4 (out of 6) x 5 = 20	5	6

Marks Distribution of End Semester Theory Examinations:**Table No. C2:** Marks distribution of Theory Examinations of End Semester

Topic	Code	Full Marks	Pass Marks	Time	Group-A [#] (Very short answer type Compulsory Questions) No. of Questions x Marks = F.M.	Group-B (Descriptive Questions with Choices) No. of Questions x Marks = F.M.	Total No. of Questions to Set	
							Group A [#]	Group B
End Sem	T60	60	24	3 Hrs	Q.No.1 (10x1) + 1x5 = 15	3 (out of 5) x 15 = 45	2	5
	T75	75	30	3 Hrs	Q.No.1 (10x1) + 1x5 = 15	4 (out of 6) x 15 = 60	2	6
	T100	100	40	3 Hrs	Q.No.1 (10x1) + 2x5 = 20	4 (out of 6) x 20 = 80	3	6
	T50 + T50	50X2=100	20	3 Hrs	2 x 5 = 10	2 (out of 3) x 20 = 40	2	3

Question No.1 in Group-A carries 10 very short answer type 1 Mark Questions.

Marks Distribution of Mid/End Semester Practical Examinations:**Table No. C3:** Marks distribution of Practical Examinations of End Semester

Topic	Code	Full Marks	Pass Marks	Time	Distribution of Marks			Total No. of Questions to Set
					Experiment	Record	Viva	
End Sem	P25	25	10	3 Hrs	15	5	5	
	P50	50	20	3 Hrs	30	10	10	Pr. with components of both papers
	P75	75	30	3 Hrs	45	15	15	Pr. with components of all three papers
	P100	100	40	3 Hrs	60	20	20	Pr. with components of all four papers

Abbreviations : T= Theory Examination, P= Practical Examination.

Mid Sem* : There will be 15 Marks Theory Examination in Practical Subjects and 25 Marks Theory Examination in Non-Practical Subjects/ Papers. 25 Marks Theory Examination may include 10 Marks questions from Assignment/ Project/ Tutorial where ever applicable.

Note : There may be subdivisions in each question asked in Theory Examinations.

FORMAT OF QUESTION PAPER FOR MID SEM EXAMINATION

OF

SUBJECTS WITH PRACTICAL



Ranchi University, Ranchi

Mid Sem No.Exam Year
Subject/ Code

F.M. =15

Time=1Hr.

General Instructions:
IekU; fun" k %

▽

- i. **Group A** carries very short answer type compulsory questions.
([kaM *A* e vR; ar y?k mUkj; vfuok;Z i"u gaA)
- ii. **Answer 2 out of 3** subjective/ descriptive questions given in **Group B**.
([kaM *B* d rhu e ls fdllgh nis fo'k; fu'B@ o kukRed i"u d mUkj nA)
- iii. Answer in your own words as far as practicable.
(; Fkklahko viiu "kCnk e mUkj nA)

1.

[5x1=5]

2.

3.

Group B

6.

[5]

7.

[5]

Note: There may be subdivisions in each question asked in Theory Examination.

FORMAT OF QUESTION PAPER FOR MID SEM EXAMINATION

OF

SUBJECTS WITHOUT PRACTICAL



Ranchi University, Ranchi

Mid Sem No.Exam Year**Subject/ Code****F.M. =25****Time=1Hr.****General Instructions:****leku; fun"ka**

- i. **Group A** carries very short answer type compulsory questions.
([kaM 'A' e vR;ar y?k mUkj; vfuok;Z i"u gSaA)
- ii. **Answer 4 out of 6** subjective/ descriptive questions given in **Group B**.
([kaM 'B' d N% e ls fdUgh pkj fo'k;fu'B@ o'kuRed i"u d mUkj nA)
- iii. Answer in your own words as far as practicable.
(;Fkklahko viu "kCnk e mUkj nA)
- iv. Answer all sub parts of a question at one place.
(,d i"u d IHkh Hkkksa d mUkj ,d lkFk fy[kaA)
- v. Numbers in right indicate full marks of the question.
(i'kkad nk;ha vksj fy[is x; gaA)

Group A

1. [5x1=5]
2.
3.
4.
5.

Group B

6. [5]
7. [5]
8. [5]
9. [5]
10. [5]
11. [5]

Note: There may be subdivisions in each question asked in Theory Examination.

FORMAT OF QUESTION PAPER FOR END SEM EXAMINATION

OF

AECC NH + MB COMMUNICATION



Ranchi University, Ranchi

End Sem No.Exam Year

Subject/ Code

F.M. =50

P.M.=20

Time=1.5Hrs.

General Instructions:

- i. **Group A** carries short answer type **compulsory** questions.
([kaM *A* e y?k mUkj; vfuok;Z i"u qSA)
- ii. **Answer 2 out of 3** subjective/ descriptive questions given in **Group B**.
([kaM *B* d rhu e ls fdUgh nls fo'k;fu'B@ o'ukRed i"u d mUkj nA)
- iii. Answer in your own words as far as practicable.
(;FkkIahko vi u "kCnk e: mUkj nA)
- iv. Answer all sub parts of a question at one place.
(,d i"u d IHkh Hkkoksa d mUkj ,d lkFk fy[ka)
- v. Numbers in right indicate full marks of the question.
(iktad nk;ha vksj fy[is x; ga)

Group A

1. [5]
2. [5]

Group B

3. [20]
4. [20]
5. [20]

Note: There may be subdivisions in each question asked in Theory Examination.

FORMAT OF QUESTION PAPER FOR END SEM EXAMINATION

OF

SUBJECTS WITH PRACTICAL



Ranchi University, Ranchi

End Sem No.Exam Year**Subject/ Code****F.M.** =60**P.M.**=30 (Including Mid Sem)**Time**=3Hrs.**General Instructions:**

- i. **Group A** carries very short answer type **compulsory** questions.
- ii. **Answer 3 out of 5** subjective/ descriptive questions given in **Group B**.
([kaM *B* d iip e ls fdlgh rhu fo'k;fu'B@ o'xukRed i"u d mUkj nA)
- iii. Answer in your own words as far as practicable.
(;FkklaHko viu "kCnk e: mUkj nA)
- iv. Answer all sub parts of a question at one place.
(,d i"u d lHkh Hkkksa d mUkj ,d lkFk fy[ksa)
- v. Numbers in right indicate full marks of the question.
(iikad nkha vksj fy[is x; ga)

Group A

- | | | |
|-------|-------|-----------|
| 1. | | [10x1=10] |
| i. | ..... | [10x1=10] |
| ii. | ..... |  |
| iii. | ..... |  |
| iv. | ..... |  |
| v. | ..... |  |
| vi. | ..... |  |
| vii. | ..... |  |
| viii. | ..... |  |
| ix. | ..... |  |
| x. | ..... |  |
| 2. | ..... | [5] |

Group B

- | | | |
|----|-------|------|
| 3. | | [15] |
| 4. | ..... | [15] |
| 5. | ..... | [15] |
| 6. | ..... | [15] |
| 7. | ..... | [15] |

Note: There may be subdivisions in each question asked in Theory Examination.

FORMAT OF QUESTION PAPER FOR END SEM EXAMINATION

OF

SUBJECTS WITHOUT PRACTICAL



Ranchi University, Ranchi

End Sem No.Exam Year**Subject/ Code****F.M.** =75**P.M.**=40 (Including Mid Sem)**Time**=3Hrs.**General Instructions:**

- i. **Group A** carries very short answer type **compulsory** questions.
- ii. **Answer 4 out of 6** subjective/ descriptive questions given in **Group B**.
([kaM *B* d N% e ls fdUgh pkj fo'k;fu'B@ o'xtukRed i"u d mUkj nA)
- iii. Answer in your own words as far as practicable.
(;FkklaHko viu "kCnk e mUkj nA)
- iv. Answer all sub parts of a question at one place.
(,d i"u d IHkh Hkkksa d mUkj ,d lkFk fy[ksa)
- v. Numbers in right indicate full marks of the question.
(iKkad nkha vksj fy[is x; ga)

Group A

1. [10x1=10]
- i.
 - ii.
 - iii.
 - iv.
 - v.
 - vi.
 - vii.
 - viii.
 - ix.
 - x.
2. [5]

Group B

3. [15]
4. [15]
5. [15]
6. [15]
7. [15]
8. [15]

Note: There may be subdivisions in each question asked in Theory Examination.

GE, SEC, GENERAL & AECC HINDI/ ENGLISH COMMUNICATION



Ranchi University, Ranchi

End Sem No.Exam Year

Subject/ Code

F.M. =100

P.M.=40

Time=3Hrs.

General Instructions:

- i. **Group A** carries very short answer type **compulsory** questions.
- ii. **Answer 4 out of 6** subjective/ descriptive questions given in **Group B**.
([kall 'b* d N: e l fdUgh pkj fo'k;fu'B@ o iukRed i"uk d mUkj nA)
- iii. Answer in your own words as far as practicable.
(;Fkklko viu "kCris e mUkj nA)
- iv. Answer all sub parts of a question at one place.
(,d i"u d lHkh Hkkksa d mUkj ,d lKfk fy[kA)
- v. Numbers in right indicate full marks of the question.
(ilZad nk;: vlsj fy[k x; gah)

Group A

- | | | |
|-------|-------|-----------|
| 1. | | [10x1=10] |
| i. | ..... |  |
| ii. | ..... |  |
| iii. | ..... |  |
| iv. | ..... |  |
| v. | ..... |  |
| vi. | ..... |  |
| vii. | ..... |  |
| viii. | ..... |  |
| ix. | ..... |  |
| x. | ..... |  |
| 2. | ..... | [5] |
| 3. | ..... | [5] |

Group B

- | | | |
|----|-------|------|
| 4. | | [20] |
| 5. | ..... | [20] |
| 6. | ..... | [20] |
| 7. | ..... | [20] |
| 8. | ..... | [20] |
| 9. | ..... | [20] |

Note: There may be subdivisions in each question asked in Theory Examination.