

Si	gnature and Name of Invigilator PAP	ER-I		
1.	(Signature)	OMR	Sheet	No.:
	(Name)			(To be filled by the Candidate)
2.	(Signature)	Roll N	Vo.	
	(Name)			(In figures as per admission card)
	J U U 1 6	Roll	No	(In words)
	Tort Doublet	Corios	$\overline{\Lambda}$	(III words)
_	ine . 1 -/4 nours	Series		[Maximum Marks : 100
Nu	umber of Pages in this Booklet : 24		Nu	mber of Questions in this Booklet : 60
1	Instructions for the Candidates Write your roll number in the space provided on the top of		/	
	this page.			
2.	This paper consists of sixty (60) multiple-choice type of questions, out of which the candidate would be required to			
	answer any fifty (50) questions. In the event of the candidate attempting more than fifty questions, the first fifty questions			
3.	attempting more than fifty questions, the first fifty questions attempted by the Candidate would be evaluated. At the commencement of examination, the question booklet			
٠.	will be given to you. In the first 5 minutes, you are requested			
	to open the booklet and compulsorily examine it as below: 10 nave access to the Question Booklet, tear off the paper		Ûë	
	seal / polythene bag on the booklet. Do not accept a booklet without sticker-seal / without polythene bag	(i)	U ¾17 - 16 As	š 17 " lė x®l¤ì¿li®iāÃii7 ili¿®i-lāxŸIÛ l Üe léš ŸI£II ili¿®iië
	and do not accept an open booklet.(ii) Tally the number of pages and number of questions in			English version will be taken as final.
	the booklet with the information printed on the cover page. Faulty booklets due to pages/questions missing			A-00
	or duplicate or not in serial order or any other discrepancy should be got replaced immediately by a			
	correct booklet from the invigilator within the period			
	of 5 minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time will be given. (iii) After this verification is over, the Test Booklet Number			
	should be entered on the OMR Sheet and the OMR			
	Sheet Number should be entered on this Test Booklet. (iv) The Series of this booklet is A , make sure that the series			
	printed on OMR Sheet is same as that on this booklet. In case of discrepancy in Series, the candidate should			
	immediately report the matter to the Invigilator for replacement of the Test Booklet/OMR Sheet.			
2.	Each item has four alternative responses marked (1), (2), (3)			
	and (4). You have to darken the circle as indicated below on the correct response against each item.			
	Example: ① ② ④ ④ where (3) is the correct response.			
3.	Your responses to the items are to be indicated in the OMR Sheet given inside this Booklet only . If you mark your			
	response at any place other than in the circle in the OMR			
4.	Sheet, it will not be evaluated. Read instructions given inside carefully.			
5. 6.	Rough Work is to be done in the end of this booklet. If you write your Name, Roll Number, Phone Number or put			
	any mark on any part of the OMR Sheet, except for the space allotted for the relevant entries, which may disclose your			
	identity, or use abusive language or employ any other unfair means such as change of response by scratching or using			
7	white fluid, you will render yourself liable to disqualification.			
7.	You have to return the original OMR Sheet to the invigilators at the end of the examination compulsorily and must not			
	carry it with you outside the Examination Hall. You are however, allowed to carry original question booklet and			
8.	duplicate copy of OMR Sheet on conclusion of examination. Use only Black Ball point pen provided by C.B.S.E.			
9.	Use of any calculator or log table etc., is prohibited. There are no negative marks for incorrect answers.			
	In case of any discrepancy in the English and Hindi versions,			



P.T.O.



Paper – I

Note: • This paper contains Sixty (60) multiple choice questions, each question carrying two (2) marks.

- Candidate is expected to answer any **Fifty (50)** questions.
- In case more than **Fifty** (50) questions are attempted, only the first **Fifty** (50) questions will be evaluated.
- **1.** Select the alternative which consists of positive factors contributing to effectiveness of teaching:

List of factors:

- (a) Teacher's knowledge of the subject.
- (b) Teacher's socio-economic background.
- (c) Communication skill of the teacher.
- (d) Teacher's ability to please the students.
- (e) Teacher's personal contact with students.
- (f) Teacher's competence in managing and monitoring the classroom transactions.

Codes:

(1) (b), (c) and (d) (2) (c), (d) and (f) (3) (b), (d) and (e) (4) (a), (c) and (f)

- 2. The use of teaching aids is justified on the grounds of
 - (1) attracting students' attention in the class room.
 - (2) minimising indiscipline problems in the classroom.
 - (3) optimising learning outcomes of students.
 - (4) effective engagement of students in learning tasks.
- **3. Assertion** (A): The purpose of higher education is to promote critical and creative thinking abilities among students.

Reason (R): These abilities ensure job placements.

Choose the correct answer from the following code:

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (3) (A) is true but (R) is false.
- (4) (A) is false but (R) is true.
- **4.** Match the items of the first set with that of the second set in respect of evaluation system. Choose the correct code :

Set – I

Set – II

- a. Formative evaluation i. Evaluating cognitive and co-cognitive aspects with regularity
- b. Summative evaluation ii. Tests and their interpretations based on a group and certain yardsticks
- c. Continuous and comprehensive evaluation iii. Grading the final learning outcomes
- d. Norm and criterion referencedtests iv. Quizzes and discussions

Codes:

	a	b	c	d
(1)	iv	iii	i	ii
(2)	i	ii	iii	iv
(3)	iii	iv	ii	i
(4)	i	iii	iv	ii



- 1. A researcher intends to explore the effect of possible factors for the organization of effective mid-day meal interventions. Which research method will be most appropriate for this study?
 - (1) Historical method

(2) Descriptive survey method

(3) Experimental method

- (4) Ex-post-facto method
- 2. Which of the following is an initial mandatory requirement for pursuing research?
 - (1) Developing a research design
 - (2) Formulating a research question
 - (3) Deciding about the data analysis procedure
 - (4) Formulating a research hypothesis
- **3.** The format of thesis writing is the same as in
 - (1) preparation of a research paper/article
 - (2) writing of seminar presentation
 - (3) a research dissertation
 - (4) presenting a workshop / conference paper
- **4.** In qualitative research paradigm, which of the following features may be considered critical?
 - (1) Data collection with standardised research tools.
 - (2) Sampling design with probability sample techniques.
 - (3) Data collection with bottom-up empirical evidences.
 - (4) Data gathering to take place with top-down systematic evidences.
- **5.** From the following list of statements identify the set which has negative implications for 'research ethics':
 - (i) A researcher critically looks at the findings of another research.
 - (ii) Related studies are cited without proper references.
 - (iii) Research findings are made the basis for policy making.
 - (iv) Conduct of practitioner is screened in terms of reported research evidences.
 - (v) A research study is replicated with a view to verify the evidences from other researches.
 - (vi) Both policy making and policy implementing processes are regulated in terms of preliminary studies.

Codes:

(1) (i), (ii) and (iii)

(2) (ii), (iii) and (iv)

(3) (ii), (iv) and (vi)

(4) (i), (iii) and (v)

- **6.** In a research on the effect of child-rearing practices on stress-proneness of children in completing school projects, the hypothesis formulated is that 'child rearing practices do influence stress-proneness'. At the data-analysis stage a null hypothesis is advanced to find out the tenability of research hypothesis. On the basis of the evidence available, the null hypothesis is rejected at 0.01 level of significance. What decision may be warranted in respect of the research hypothesis?
 - (1) The research hypothesis will also be rejected.
 - (2) The research hypothesis will be accepted.
 - (3) Both the research hypothesis and the null hypothesis will be rejected.
 - (4) No decision can be taken in respect of the research hypothesis.



Read the following passage carefully and answer question numbers from 11 to 16:

In terms of labour, for decades the relatively low cost and high quality of Japanese workers conferred considerable competitive advantage across numerous durable goods and consumer-electronics industries (eg. Machinery, automobiles, televisions, radios). Then labour-based advantages shifted to South Korea, then to Malaysia, Mexico and other nations. Today, China appears to be capitalizing best on the basis of labour. Japanese firms still remain competitive in markets for such durable goods, electronics and other products, but the labour force is no longer sufficient for competitive advantage over manufacturers in other industrializing nations. Such shifting of labour-based advantage is clearly not limited to manufacturing industries. Today, a huge number of IT and service jobs are moving from Europe and North America to India, Singapore, and like countries with relatively well-educated, low-cost workforces possessing technical skills. However, as educational levels and technical skills continue to rise in other countries, India, Singapore, and like nations enjoying labour based competitive advantage today are likely to find

However, as educational levels and technical skills continue to rise in other countries, India, Singapore, and like nations enjoying labour-based competitive advantage today are likely to find such advantage cannot be sustained through emergence of new competitors.

In terms of capital, for centuries the days of gold coins and later even paper money restricted financial flows. Subsequently regional concentrations were formed where large banks, industries and markets coalesced. But today capital flows internationally at rapid speed. Global commerce no longer requires regional interactions among business players. Regional capital concentrations in places such as New York, London and Tokyo still persist, of course, but the capital concentrated there is no longer sufficient for competitive advantage over other capitalists distributed worldwide. Only if an organization is able to combine, integrate and apply its resources (eg. Land, labour, capital, IT) in an effective manner that is not readily imitable by competitors can such an organization enjoy competitive advantage sustainable overtime.

In a knowledge-based theory of the firm, this idea is extended to view organizational knowledge as

In a knowledge-based theory of the firm, this idea is extended to view organizational knowledge as a resource with atleast the same level of power and importance as the traditional economic inputs. An organization with superior knowledge can achieve competitive advantage in markets that appreciate the application of such knowledge. Semiconductors, genetic engineering, pharmaceuticals, software, military warfare, and like knowledge-intensive competitive arenas provide both time-proven and current examples. Consider semiconductors (e.g. computer chips), which are made principally of sand and common metals. These ubiquitous and powerful electronic devices are designed within common office buildings, using commercially available tools, and fabricated within factories in many industrialized nations. Hence, land is not the key competitive resource in the semiconductor industry. resource in the semiconductor industry.

Based on the passage answer the following questions:

5.	Whic	h country	enjoyed	competitive	advantages	s in auton	nobile i	industry	for d	lecades	?
	(1)	South K	orea	-	(2)	Japan					

(3) Mexico

- (4) Malaysia
- Why labour-based competitive advantages of India and Singapore cannot be sustained in IT 6. and service sectors?
 - Due to diminishing levels of skill. (1)
 - Due to capital-intensive technology making inroads. (2)
 - (3) Because of new competitors.
 - (4) Because of shifting of labour-based advantage in manufacturing industries.
- 7. How can an organisation enjoy competitive advantage sustainable overtime?
 - Through regional capital flows. (1)
 - Through regional interactions among business players. (2)
 - (3) By making large banks, industries and markets coalesced.
 - By effective use of various instrumentalities. (4)
- 8. What is required to ensure competitive advantages in specific markets?
 - Access to capital (1)

(2) Common office buildings

Superior knowledge (3)

- **(4)** Common metals
- 9. The passage also mentions about the trend of
 - Global financial flow (1)
 - Absence of competition in manufacturing industry
 - (3) Regionalisation of capitalists
 - Organizational incompatibility (4)
- **10.** What does the author lay stress on in the passage?
 - (1) International commerce
- (2) Labour-Intensive industries
- (3) Capital resource management
- Knowledge-driven competitive advantage (4)



- **11.** Imagine you are working in an educational institution where people are of equal status. Which method of communication is best suited and normally employed in such a context?
 - (1) Horizontal communication
 - (2) Vertical communication
 - (3) Corporate communication
 - (4) Cross communication
- **12.** Identify the important element a teacher has to take cognizance of while addressing students in a classroom.
 - (1) Avoidance of proximity
 - (2) Voice modulation
 - (3) Repetitive pause
 - (4) Fixed posture
- **13.** What are the barriers to effective communication?
 - (1) Moralising, being judgemental and comments of consolation.
 - (2) Dialogue, summary and self-review.
 - (3) Use of simple words, cool reaction and defensive attitude.
 - (4) Personal statements, eye contact and simple narration.
- 14. The choice of communication partners is influenced by factors of
 - (1) Proximity, utility, loneliness
 - (2) Utility, secrecy, dissonance
 - (3) Secrecy, dissonance, deception
 - (4) Dissimilarity, dissonance, deviance
- 15. As a teacher, select the best option to ensure your effective presence in the classroom.
 - (1) Use of peer command
 - (2) Making aggressive statements
 - (3) Adoption of well-established posture
 - (4) Being authoritarian
- **16.** Every communicator has to experience
 - (1) Manipulated emotions
 - (2) Anticipatory excitement
 - (3) The issue of homophiles
 - (4) Status dislocation



17.	In certain code, SELECTION is coded as QCJCARGML. The code of AMERICANS will						
	be (1)	YKCPGAYLQ					
	(2)	BNFSJDBMR					
	(3)	QLYAGPCKY					
	(4)	YQKLCYPAG					
18.	In th	e series					
	3, 11	1, 23, 39, 59,					
	The	next term will be					
	(1)	63	(2)	73			
	(3)	83	(4)	93			
19.	ticke	•		ee tickets from city A to C cost ` 177. Three n city A to C cost ` 173. The fare for city B			
	(1)	25	(2)	27			
	(3)	30	(4)	33			
20.		erson walks 10 m infront and 10 m as 5, 15 and 15 m respectively. How		right. Then every time turning to his left, he he now from his starting point?			
	(1)	20 m	(2)	15 m			
	(3)	10 m	(4)	5 m			
21.		sister of B. F is daughter of G. C is lated to D as	moth	er of B. D is father of C. E is mother of D. A			
	(1)	Grand daughter	(2)	Daughter			
	(3)	Daughter-in-law	(4)	Sister			
22.	In th	e series					
		EDC, FGHI,?, OPQRST, the	missi	ng term is			
	(1)	JKLMN	(2)	JMKNL			
	(3)	NMLKJ	(4)	NMKLJ			
23.	the c	ong the following propositions two other. Which are those propositions cositions:		elated in such a way that one is the denial of ect the correct code:			
	(a)	All women are equal to men					
	(b)	Some women are equal to men					
	(c)	Some women are not equal to men	1				
	(d)	No women are equal to men	.1				
	Cod	-					
	(1)	(a) and (b)					
	(2)	(a) and (d)					
	(3)	(c) and (d)					
	(4)	(a) and (c)					



23. If the proposition 'All thieves are poor' is false, which of the following propositions can be claimed certainly to be true?

Propositions:

- (1) Some thieves are poor.
- (2) Some thieves are not poor.
- (3) No thief is poor.
- (4) No poor person is a thief.
- **24.** Consider the following statement and select the correct code stating the nature of the argument involved in it:

To suppose that the earth is the only populated world in the infinite space is as absurd as to assert that in an entire field of millet only one grain will grow.

(1) Astronomical

(2) Anthropological

(3) Deductive

(4) Analogical

- **25.** Select the code which is not correct about Venn diagram:
 - (1) Venn diagram represents propositions as well as classes.
 - (2) It can provide clear method of notation.
 - (3) It can be either valid or invalid.
 - (4) It can provide the direct method of testing the validity.
- **26.** Select the code which is not correct in the context of deductive argument with two premises:
 - (1) An argument with one true premise, one false premise and a false conclusion may be valid.
 - (2) An argument with two true premises and a false conclusion may be valid.
 - (3) An argument with one true premise, one false premise and a true conclusion may be valid.
 - (4) An argument with two false premises and a false conclusion may be valid.
- **27.** Given below are two premises and four conclusions are drawn from them (taking singly or together). Select the code that states the conclusions validly drawn.

Premises:

- (i) All religious persons are emotional.
- (ii) Ram is a religious person.

Conclusions:

- (a) Ram is emotional.
- (b) All emotional persons are religious.
- (c) Ram is not a non-religious person.
- (d) Some religious persons are not emotional.

Codes:

- (1) (a), (b), (c) and (d)
- (2) (a) only
- (3) (a) and (c) only
- (4) (b) and (c) only



The following table shows the percentage profit (%) earned by two companies A and B during the years 2011-15. Answer questions 35-37 based on the data contained in the table:

Profit earned by two companies

X 7	Percentag	e Profit (%)
Year	A	В
2011	20	30
2012	35	40
2013	45	35
2014	40	50
2015	25	35

Where, percent (%) Profit = $\frac{Income - Expenditure}{Expenditure} \times 100$

- **30.** If the total expenditure of the two companies was ` 9 lakh in the year 2012 and the expenditure of A and B were in the ratio 2:1, then what was the income of the company A in that year?
 - (1) \ 9.2 lakh
 - (2) \ 8.1 lakh
 - (3) 7.2 lakh
 - (4) ` 6.0 lakh
- **31.** What is the average percentage profit earned by the company B?
 - (1) 35%
 - (2) 42%
 - (3) 38%
 - (4) 40%
- **32.** In which year, the percentage profit earned by the company B is less than that of company A?
 - (1) 2012
 - (2) 2013
 - (3) 2014
 - (4) 2015



35.

36.

37.

38.

39.

40.

41.

The following table shows the number of people in different age groups who responded to a survey about their favourite style of music. Use this information to answer the questions that follow: (Question 38-40) to the nearest whole percentage:

		Nun	nber of peo	ple
Age	$e \rightarrow$	(Years)	(Years)	(Years)
Style of		15-20	21-30	31+
Music↓				
Classical		6	4	17
Pop		7	5	5
Rock		6	12	14
Jazz		1	4	11
Blues		2	3	15
Нір-Нор		9	3	4
Ambient		2	2	2

	Classical	6 4		17			
	Pop	7	5	5			
	Rock	6	12	14			
	Jazz	1	4	11			
	Blues	2	3	15			
	Нір-Нор	9	3	4			
	Ambient	2	2	2			
Aı	oproximately what perce	entage of the	e total sai	mple were ag	– ed 21-30 ?		
(1	• • • •	entage of the	(2)	23%	21 30 .		
(3	,		(4)	14%			
far (1 (3 W	Approximately what percentage of the total sample indicates that Hip-Hop is their favourite style of music? (1) 6% (2) 8% (3) 14% (4) 12% What percentage of respondents aged 31+ indicated a favourite style other than classical music? (1) 64% (2) 60%						
of Ha (1) (2)	The statement "the study, design, development, implementation, support or management of computer-based information systems, particularly software applications and computer Hardware" refers to (1) Information Technology (IT) (2) Information and Collaborative Technology (ICT) (3) Information and Data Technology (IDT)						
th	If the binary equivalent of the decimal number 48 is 110000, then the binary equivalent of the decimal number 51 is given by						
(1	,		(2)	110010			
(3) 110001		(4)	110100			
Tl	ne process of copying fi	les to a CD-l	ROM is l	known as			
(1			(2)	Zipping			
(3	(3) Digitizing (4) Ripping						
Д	An unsolicited e-mail message sent to many recipients at once is a						
(1)		bage sem to	(2)	Virus			
(3	,		(4)	Spam			
	V O	2016 D	1	1			



38.	is a type of memory circuitry that holds the computer's start-up routine.						
	(1) RIM (Read Initial Memory) (2) RAM (Random Access Memory)						
	(2) RAM (Random Access Memory)						
	(3) ROM (Read Only Memory) (4) Cache Memory						
	(4)	Cache Memory					
39.	orde selec (1) (2)	r to represent various characters, rets on the keyboard. ASCII is an acr American Standard Code for Infor American Standard Code for Intel	numbe onym matio ligent	n Interchange Information			
	(3)	American Standard Code for Infor					
	(4)	American Standard Code for Isola	ted In	tormation			
40.		tify the air pollutant in urban areas an beings.	whic	h irritates eyes and also respiratory tract of			
	(1)	Particulate matter	(2)	Oxides of nitrogen			
	(3)		(4)	Carbon monoxide			
41.		9	irce of	water pollution in major rivers of India?			
	(1)	Untreated sewage					
	(2)	Agriculture run-off					
	(3)	Unregulated small scale industries					
	(4)	Religious practices					
42.	Sust	ainable development goals have spe	cific t	argets to be achieved by			
	(1)	2022	(2)	2030			
	(3)	2040	(4)	2050			
43.	India	an government's target of producing	nowe	er from biomass by the year 2022, is			
	(1)	50 MW	(2)	25 MW			
	(3)	15 MW	(4)	10 MW			
44.		ertion (A): Conserving our soil re					
		•	micro-	organisms and contains minerals.			
		ose the correct code:	D				
	(1)	Both (A) and (R) are correct and (• , ,			
	(2) Both (A) and (R) are correct but (R) is not the correct explanation of (A).						
	(3) (4)	(A) is true and (R) is false.(A) is false and (R) is true.					
	(4)	(A) is faise and (K) is true.					
45.	Wor	ld Meteorological Organisation's (V	VMO)	objective has been to reduce the number of			
	deat	hs due to hydrometeorological disas	ters o	ver the decade 2010-2019 by (with reference			
	to th	e decade 1994-2003)					
	(1)	25%	(2)	50%			
	(3)	75%	(4)	80%			
Previo	us Yea	ur Question UGC NET 2016 Paper 1					



45.	Which of the following core values among the institutions of higher education are promoted by the NAAC (National Assessment and Accreditation Council)? (a) Contributing to national development. (b) Fostering global competencies among the students. (c) Inculcating a value system among students and teachers. (d) Promoting the optimum utilization of the infrastructure. Select the correct answer from the codes given below: Codes:					
	(1) (3)	(b), (c) and (d) (a), (c) and (d)	(2) (4)	(a), (b) and (c) (a), (b), (c) and (d)		
46.	The I (1) (3)	best way for providing value educat discussions on scriptural texts seminars / symposia on values	(2) (4)	through lectures / discourses on values mentoring / reflective sessions on values		
47.	The unco (1) (2) (3) (4)	constitutional by The Supreme Court of India The High Court The High Court and the Supreme Court both				
48.	(a)(b)(c)(d)	The President is both Head of the State and Head of the Government. Parliament is Supreme. The Supreme Court is the guardian of the Constitution. The Directive Principles of State Policy are justiciable. ect the correct answer from the codes given below: (a), (b), (c) and (d) (b) and (c) (c) only				
49.	(a)(b)(c)(d)	ch of the following are the fundame. To respect the National Flag. To protect and improve the natura. For a parent to provide opportunity. To protect monuments and places et the correct answer from the codes (a), (b) and (c) (a), (c) and (d)	l envii ies for of nat	ronment. education to his/her child. ional importance.		
50.	(a)(b)(c)(d)	ch of the following statements are constitutional body. It is a statutory body. It is neither a constitutional body of the statement of the constitutional body of the correct answer from the codes (a) and (d) (c) and (d)	or a s	statutory body.		



53. A college level assistant professor has planned his/her lectures with an intent to develop cognitive dimensions of students centered on skills of analysis and synthesis. Below, given are two sets of items Set – I consisting of levels of cognitive interchange and Set – II comprising basic requirements for promoting them. Match the two sets and indicate your answer by choosing the correct alternative from the code:

Set – I	Set – II

(Levels of Cognitive Interchange)				(Ba	sic requirements for promoting cognitive interchange)
a.	Me	mory l	level	i.	Giving opportunity for discriminating examples and non-examples of a point.
b.	. Understanding level			ii.	Recording the important points made during the presentations.
c.	Reflective level			iii.	Asking the students to discuss various items of information.
				iv.	Critically analyzing the points to be made and discussed.
Co	des:				
	a	b	c		
(1)	ii	iv	i		

- **54.** Which set of learner characteristics may be considered helpful in designing effective teaching-learning systems? Select the correct alternative from the codes given below:
 - (i) Prior experience of learners in respect of the subject.
 - (ii) Interpersonal relationships of learner's family friends.
 - (iii) Ability of the learners in respect of the subject.
 - (iv) Student's language background.

ii

iv

iii

- (v) Interest of students in following the prescribed dress code.
- (vi) Motivational-orientation of the students.

Codes:

(2)

(3)

(4)

iii

ii

i

iv

ii

- (1) (i), (ii), (iii) and (iv) (2) (i), (iii), (iv) and (vi)
- (3) (ii), (iii), (iv) and (v) (4) (iii), (iv), (v) and (vi)



Space For Rough Work