

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY  
M.Phil Entrance Test (MET) 2018

*To be filled by the candidate:*

MET 2018 REGISTRATION NO.

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\_\_\_\_\_  
Signature of the Candidate

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of the Invigilator

**INSTRUCTIONS:** Please read the following very carefully.

1. This exam has 2 papers. Paper I is objective, has 2 sections, and is for 40 minutes (40 marks). Paper II is descriptive and is for 140 minutes (60 marks).
2. You are given a question paper-cum-answer booklet for Paper I (Sections A and B). The invigilators will collect Paper I at the end of 40 minutes, and thereafter hand out the question paper-cum-answer booklet for Paper II.
3. Fill your MET 2018 REGISTRATION NUMBER and put your signature where asked for and nowhere else.
4. All rough work must be done on the question paper-cum-answer booklet itself and must be marked as "rough".
5. Mobile phones and programmable calculators are not allowed in the examination halls.
6. Entering your Name, Registration Number, or any other identifier in places other than those specified is strictly forbidden.
7. Violation of these instructions or adoption of any unfair means during the examination will lead to the disqualification of the candidate.

INSTRUCTIONS FOR PAPER-I

1. The second page of this booklet is the answer sheet for the objective questions.
2. Paper I consists of TWO Sections, A and B.
3. All questions in Section A are compulsory.
4. Answer ANY 20 questions in Section B out of the given 40.
5. Ambiguous answers will be marked wrong.

## PAPER I: ANSWER SHEET

Duration: 40 minutes

Maximum Marks: 40

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## SECTION - A

Q. No.	Options			
1	A	B	C	D
2	A	B	C	D
3	A	B	C	D
4	A	B	C	D
5	A	B	C	D
6	A	B	C	D
7	A	B	C	D
8	A	B	C	D
9	A	B	C	D
10	A	B	C	D
11	A	B	C	D
12	A	B	C	D
13	A	B	C	D
14	A	B	C	D
15	A	B	C	D
16	A	B	C	D
17	A	B	C	D
18	A	B	C	D
19	A	B	C	D
20	A	B	C	D

*(For Office Use only)*

Total marks for Section A: \_\_\_\_\_

Signature of the Examiner \_\_\_\_\_

Signature of Scrutinizer: \_\_\_\_\_

Total marks for Section B: \_\_\_\_\_

Signature of the Examiner \_\_\_\_\_

Signature of Scrutinizer: \_\_\_\_\_

Total for Paper I: \_\_\_\_\_

## SECTION - B

Q. No.	Options			
1	A	B	C	D
2	A	B	C	D
3	A	B	C	D
4	A	B	C	D
5	A	B	C	D
6	A	B	C	D
7	A	B	C	D
8	A	B	C	D
9	A	B	C	D
10	A	B	C	D
11	A	B	C	D
12	A	B	C	D
13	A	B	C	D
14	A	B	C	D
15	A	B	C	D
16	A	B	C	D
17	A	B	C	D
18	A	B	C	D
19	A	B	C	D
20	A	B	C	D
21	A	B	C	D
22	A	B	C	D
23	A	B	C	D
24	A	B	C	D
25	A	B	C	D
26	A	B	C	D
27	A	B	C	D
28	A	B	C	D
29	A	B	C	D
30	A	B	C	D
31	A	B	C	D
32	A	B	C	D
33	A	B	C	D
34	A	B	C	D
35	A	B	C	D
36	A	B	C	D
37	A	B	C	D
38	A	B	C	D
39	A	B	C	D
40	A	B	C	D

## PAPER I

SECTION – A

This section contains 20 questions in *six groups* (Group I to Group VI). All questions are compulsory. Each question carries 1 mark. For every incorrect answer, 0.25 marks will be deducted. Only one answer is correct. Tick (✓) the correct option on page 2.

**Group I:**

1. Five friends — Preeti, Mahreen, Madhav, Tasleem, Xavier—live, each separately in any one of a castle, cottage, cabin, chalet and a chamber. Each one likes two different colors from among the following: blue, black, red, yellow and green. Madhav likes red and blue. Tasleem likes black. The person living in a castle does not like black or blue. Preeti likes blue and red. Mahreen like yellow. Xavier lives in a chamber. Where does Mahreen live?
  - A. Cottage
  - B. Castle
  - C. Cabin
  - D. Chalet
  
2. Nishad remembers that his sister Nisha’s birthday falls after 21<sup>st</sup> October but before 30<sup>th</sup> October. However, Nishad’s friend Nasreen remembers that Nisha’s birthday falls before 25<sup>th</sup> October but after 20<sup>th</sup> October. Which of the following is Nisha’s birthday?
  - A. 20<sup>th</sup> October
  - B. 21<sup>st</sup> October
  - C. 22<sup>nd</sup> October
  - D. 26<sup>th</sup> October
  
3. “Although in the limited sense of freedom regarding appointments and internal working, the independence of the Central Bank is unequivocally ensured, the same cannot be said of its right to pursue monetary policy without coordination with the Central Government. The role of the Central Bank has turned out to be subordinate and advisory in nature.” Which one of the following statements best supports the above conclusion?
  - A. A decision by the Governor of the Central Bank to increase the bank rate by two percentage points sent shock-waves in governmental, industrial and academic circles alike.
  - B. The Central Government has repeatedly resorted to monetization of the debt despite the reservations of the Central Bank.
  - C. The Central Bank does not need the Central Government’s nod for replacing soiled currency notes.
  - D. The inability to remove coin shortage was a major shortcoming of this Government.
  
4. If ZIP is 33 and ZAP is 41, what is ZOO?
  - A. 28
  - B. 27
  - C. 56
  - D. 57

5. Janaki takes a survey of 15 villages in her locality, menaced by the drug problem, and finds out that the number of drug peddlers in each village. Her observations are recorded as follows: 3,3,3,2,2,1,2,3,4,4,4,4,1,1. Which of the following is the correct frequency table?

A.

No. of drug peddlers in a village	Tally marks	Frequency
1		3
2		3
3		4
4		5
		15

B.

No. of drug peddlers in a village	Tally marks	Frequency
1		3
2		3
3		4
4		5
	Total	15

C.

No. of drug peddlers in a village	Tally marks	Frequency
1		3
2		3
3		4
4		5
	Total	15

D.

No. of drug peddlers in a village	Tally marks	Frequency
1		3
2		3
3		4
4		5
	Total	15

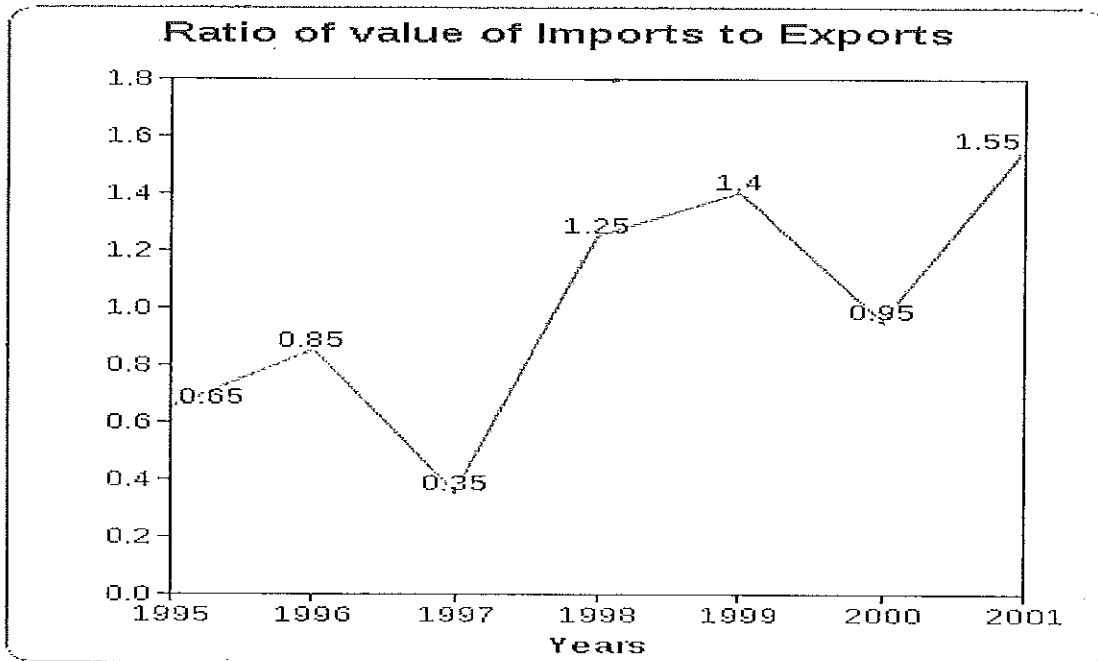
### Group II:

6. Find out which part of the following sentence has an error.  
*The way to increase the production of the food is to bring more land under cultivation.*
- A. The way to increase the production of the food  
 B. is to bring more land  
 C. under cultivation  
 D. No error
7. There are millions of stars in the sky. If you look ..... the sky on a clear night, it is possible to see about 3000 stars. They look small, but they are really ..... big hot balls of burning gas.
- A. over, very  
 B. up at, too  
 C. on, much  
 D. up at, very
8. I don't know where she is. I suppose she \_\_\_\_\_ got stuck in traffic.
- A. can have  
 B. must have  
 C. should have  
 D. might have



## Group IV:

The following Line Diagram gives the ratio of the amounts of imports to the amount of exports by Hindustan Unilever Ltd. over the period from 1995 to 2001. Answer the following questions based on the following Line Diagram.

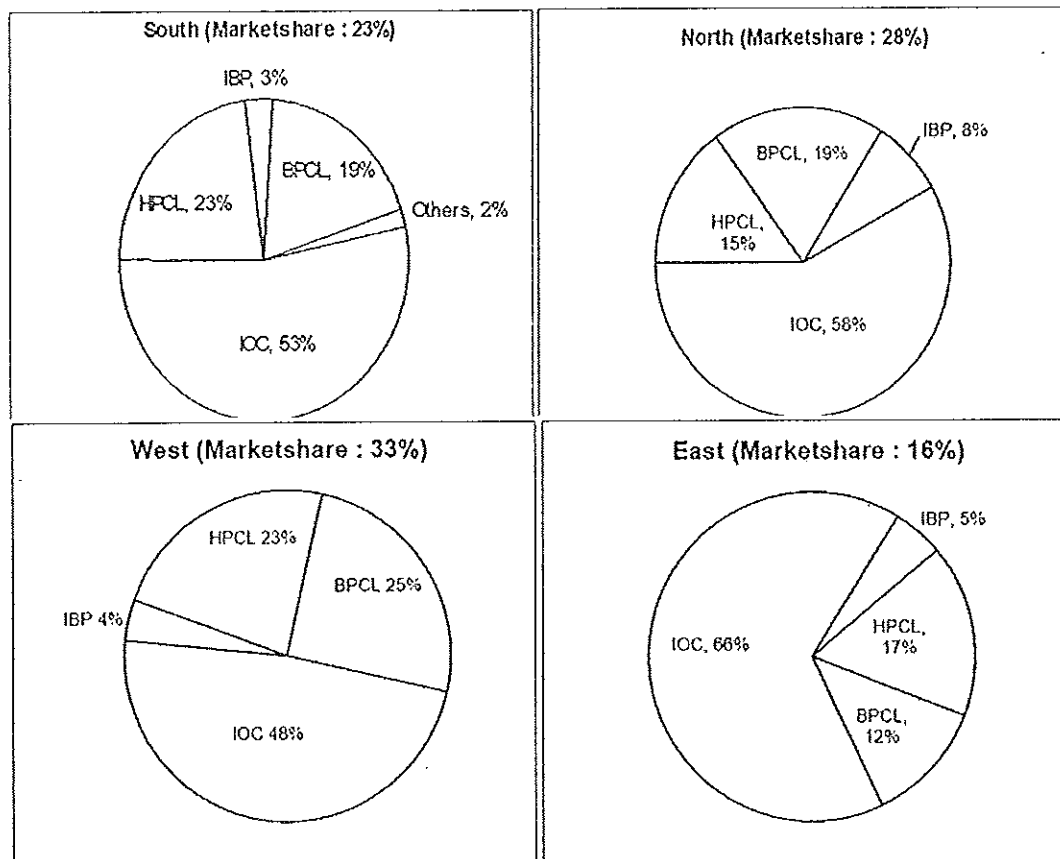
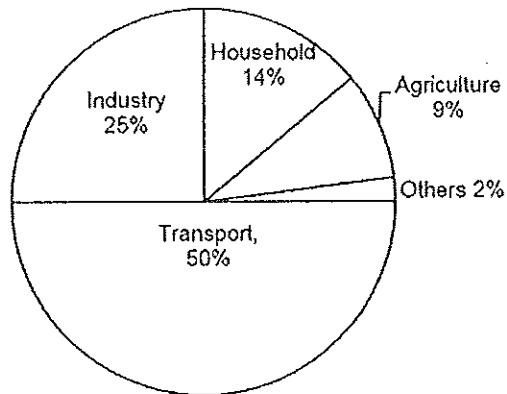


12. If imports of the company in 1996 was Rs. 272 crores, then the exports from the company in that year was
- A. Rs. 120 crores      B. Rs. 220 crores      C. Rs. 320 crores      D. Rs. 420 crores
13. If the imports in 1998 was Rs. 250 crores and the total exports in the years 1998 and 1999 together was Rs. 500 crores, then the imports in 1999 was
- A. 320 crores      B. 420 crores      C. 550 crores      D. 620 crores
14. What was the percentage increase in imports from 1997 to 1998?
- A. 70%      B. 72%      C. 74%      D. Data Inadequate

### Group V:

The market shares in terms of sales distribution of the major oil-producing giants in India are given below. The total sales (all over India) in 2015 were \$600 bn (\$1bn = Rs. 3,300 crores, say). The (all India) total demand for oil in 2015 was 100,000 crore kgs. Refer to the pie charts and answer the questions that follow.

#### REGIONAL MARKET SHARES IN 2015 Sectorwise Demand



15. The sales of HPCL in West exceeded the sales of BPCL in North by
- A. Rs. 3,397 crores
  - B. Rs. 44,946 crores
  - C. Rs. 5,479 crores
  - D. \$ 4.3 bn
16. If total sales (in kg), all over India, by the given oil giants in 1995 is 80% of the total demand, the price of oil (on an average) in 1995 must have been
- A. Rs. 18.2 / kg
  - B. Rs. 13.6 / kg
  - C. Rs. 15.84 / kg
  - D. Rs. 24.75 / kg
17. The total all India sales of IOC were approximately
- A. \$300 bn
  - B. \$310 bn
  - C. \$329 bn
  - D. \$350 bn

**Group VI:**

Answer the following three questions:

18. 5 kg of Kohinoor basmati rice at Rs. 6 per kg is mixed with 4 kg of Dawaat basmati rice to get a mixture costing Rs. 7 per kg. Find the price of the costlier rice.
- A. 7.15                      B. 7.56                      C. 9.75                      D. 8.25
19. Dhiraj purchased 150 kg of rice. He sold  $\frac{1}{3}$ rd of it at 10% loss. At what percent of profit must he sell the remaining rice so that he can make 10% profit on the whole?
- A. 20%                      B. 15%                      C. 10%                      D. 12%
20. The opposite pairs of sides of a square are increased by 40% and 30%, respectively. The area of the resulting rectangle exceeds the area of the square by
- A. 42%                      B. 62%                      C. 82%                      D. 75%

END OF SECTION A (PAPER I)



PAPER I

SECTION – B

There are 40 questions in this section. Answer ANY 20. Each question carries 1 mark. For every incorrect answer, 0.25 marks will be deducted. Only one answer is correct. Tick (✓) the correct option on page 2.

1. A decrease in lump-sum taxes will
  - A. make the consumption function steeper.
  - B. shift the consumption function upward.
  - C. shift the consumption function downward.
  - D. make the consumption function flatter.
  
2. If you order for home delivery from a local restaurant,
  - A. neither GDP nor consumption will be affected because you are going to eat at home only.
  - B. GDP will be unchanged, but consumption spending will be higher.
  - C. consumption increases and so does GDP.
  - D. GNP will be higher, but consumption spending will be unchanged.
  
3. Any point that is to the right of (and above) the *IS*-curve indicates that there is
  - A. excess demand for goods and services.
  - B. excess supply of goods and services.
  - C. excess demand for money.
  - D. excess supply of money
  
4. Which of the policy options would simultaneously increase interest rate and decrease output?
  - A. The Central Government increases the tax rate.
  - B. The Central Government increases its defense purchases.
  - C. The Monetary Policy Committee expands the money supply.
  - D. The RBI sells bonds through open market operations.
  
5. Consider two identical economies with the only exception that one has a high MPC and one has a low MPC. If money supply is increased by the same amount in each economy, the high MPC economy will experience
  - A. A smaller increase in output and a smaller decrease in the interest rate.
  - B. A larger increase in output and a larger decrease in the interest rate.
  - C. A larger increase in output and a smaller decrease in the interest rate.
  - D. A smaller increase in output and a larger decrease in the interest rate.
  
6. Development expenditure of the Central Government does not include
  - A. concessional grant to the states.
  - B. expenditure on socio-economic services.
  - C. expenditure on community services for orphans and old age destitutes.
  - D. defence expenditure.

7. Which of the following statements is true?
- A. Self-sufficiency is the road to prosperity.
  - B. A rich self-sufficient country consumes outside its production possibilities frontier.
  - C. A self-sufficient country can, at best, consume on its production possibilities frontier.
  - D. Only countries with an absolute advantage in the production of each and every good should strive to be self-sufficient.
8. The therapy of psychoanalysis was developed by
- A. Skinner
  - B. Sigmund Freud
  - C. Plato
  - D. Darwin
9. How is psychology defined today?
- A. The science of behaviour and mental processes
  - B. The science of human behaviour and mental processes
  - C. The science of mind
  - D. The study of motivation, emotion, personality, adjustment and abnormality
10. That the things most recently learned are best remembered refers to
- A. Law of intensity
  - B. Law of effect
  - C. Law of primacy
  - D. Law of recency
11. According to Craik and Lockhart, you will retain information that you learn in your psychology class better and longer if you elaborate on it, create associations between what you are learning and what you already know, and make the information meaningful. This is the basis of which model of memory?
- A. Information-processing
  - B. Levels of processing
  - C. Stage theory
  - D. The modal model
12. Which of the following is NOT a widely used method in modern experimental psychology?
- A. The (true) experimental method
  - B. The quasi-experimental method
  - C. The introspective method
  - D. The case study method
13. Experimental groups, treatment groups, and control groups represent ways to \_\_\_\_\_ outcome variables.
- A. Manipulate
  - B. Correlate
  - C. Attract
  - D. Validate
14. Most people can keep \_\_\_\_\_ items in their short-term memory
- A.  $5 \pm 2$
  - B. 7
  - C. 8
  - D.  $7 \pm 2$



22. In case of  $X \sim P(\lambda)$ ,  $\lambda > 0$  for what value of  $\lambda$  we will have Mean = Standard Deviation
- A.  $\lambda = 1$
  - B.  $\lambda = \sqrt{2}$
  - C.  $\lambda = \sqrt{9}$
  - D. Can never be for such a distribution
23. The probability density function of a Gaussian distribution is:
- A. Platykurtic and right skewed
  - B. Platykurtic and left skewed
  - C. Mesokurtic and symmetric
  - D. Mesokurtic and bimodal
24. All hall tickets of an entrance exam are numbered 1 to 20 and are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?
- A. 1/2                      B. 2/15                      C. 8/20                      D. 9/20
25. For larger values of 'n', the Binomial Distribution
- A. loses its discreteness
  - B. tends to the Poisson Distribution
  - C. tends to the Chi-square Distribution
  - D. gives oscillatory values
26. A researcher is setting out to study nutrition among the urban poor in a ghetto in Jaffna, using qualitative methods. Which of the following is a characteristic of qualitative research?
- A. Design flexibility
  - B. Context sensitivity
  - C. Inductive analysis
  - D. All of the above
27. Which of the following is/are (a) method(s) to study subjective experience?
- A. Phenomenology
  - B. Ethnography
  - C. Life stories
  - D. All of the above
28. Which ONE of these sample sources will be the most incomplete for a sample of nationally representative households?
- A. The Electoral Register
  - B. The Public Distribution System database
  - C. Telephone directories
  - D. A customer database
29. If the value of  $p$  is lesser than 0.5 then binomial distribution is classified as
- A. skewed to the right
  - B. skewed to the left
  - C. skewed to infinity
  - D. skewed to integers

30. Since the population size is always *larger* than the sample size, then the sample statistic
- can never be larger than the population parameter
  - can never be equal to the population parameter
  - can never be smaller than the population parameter
  - None of the above answers is correct
31. Which of the following group of languages represents the most spoken language group according to *Ethnologue: Languages of the World* (2018)?
- Mandarin, Spanish, English, Arabic
  - Mandarin, English, Portuguese, Arabic
  - Mandarin, Spanish, English, Bengali
  - Mandarin, English, Portuguese, Hindi
32. The lack of support for which document forced B. R. Ambedkar to resign from Nehru's cabinet in 1951?
- The Constitution of India
  - The Uniform Civil Code
  - The Hindu Code Bill
  - The Code of Civil Procedure
33. The *age of inflation* or "Great Inflation" lasted
- from 1929 through 1945
  - from 1929 through 1936
  - from 1966 through 1981
  - from 1973 through 1979
34. Which of the following films won Sridevi the only National Award in the 'Best Actress' category?
- |                   |                            |
|-------------------|----------------------------|
| A. Mom (2017)     | B. English Vinglish (2012) |
| C. Chandni (1989) | D. Sadma (1983)            |
35. The term 'Hindu Rate of Growth' was coined by
- Raj Krishna
  - Atal B. Vajpayee
  - Sukhamoy Chakravarty
  - Jagdish Bhagwati
36. Which of the following is tested in the Turing Test?
- Turning of musical instruments
  - Supercomputing abilities of human beings
  - Machine's ability to exhibit human-like intelligent behavior
  - Meteorological equipment's capacity to predict weather conditions
37. Which of the following countries was not impacted by the pro-democracy uprisings known as the Arab Spring?
- |            |          |          |            |
|------------|----------|----------|------------|
| A. Tunisia | B. Yemen | C. Qatar | D. Bahrain |
|------------|----------|----------|------------|

38. Who is the first woman to be elevated as judge to the Supreme Court of India?

- A. Fathima Beevi                      B. Indira Jaising  
C. Bhanumati                          D. Indu Malhotra

39. Which of the following is not a right guaranteed by the Indian Constitution?

- A. Right to food                      B. Right to information  
C. Right to life                        D. Right to development

40. Match List-I with List-II and give the correct answer.

- | List-I                    | List-II                          |
|---------------------------|----------------------------------|
| (a) J.S. Verma Committee  | (i) Bombay Riots                 |
| (b) Srikrishna Commission | (ii) Education in India          |
| (c) Kothari Commission    | (iii) Status of Muslims in India |
| (d) Sachar Committee      | (iv) Anti-Rape Law               |
- A. a-ii; b-iii; c-i; d-iv                      B. a-iii; b-ii; c-i; d-iv  
C. a-iv; b-i; c-ii; d-iii                      D. a-iv; b-iii; c-ii; d-i

END OF SECTION B (PAPER 1)

## INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

M.Phil Entrance Test (MET) - 2018

## PAPER - II

Duration: 140 minutes

Maximum Marks: 60

Note: Before attempting any question, read the instructions carefully.

*To be filled by the candidate:*

MET 2018 REGISTRATION NO.

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\_\_\_\_\_  
Signature of the Candidate

Date: \_\_\_\_\_

Q.No.	Section A Tick (✓) Here	Examiner	Q.No.	Section B Tick (✓) Here	Examiner
A-1			B-1		
A-2			B-2		
A-3			B-3		
A-4			B-4		
A-5			B-5		
A-6			B-6		
A-7			B-7		
A-8			B-8		
A-9			B-9		
A-10			B-10		
A-11			-	-	-
A-12			-	-	-
A-13			-	-	-
A-14			-	-	-
A-15			-	-	-
Total			-		
Sign.			-		

\_\_\_\_\_  
Signature of the Invigilator

Total Marks (Paper II) \_\_\_\_\_

Head Examiner: \_\_\_\_\_

Scrutinizer: \_\_\_\_\_

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY  
M.Phil Entrance Test (MET) - 2018

PAPER - II

Duration: 140 minutes

Maximum Marks: 60

Note: Before attempting any question, read the instructions carefully.

*To be filled by the candidate:*

MET 2018 REGISTRATION NO.

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\_\_\_\_\_  
Signature of the Candidate

Date: \_\_\_\_\_

Q.No.	Section A Tick (✓) Here	Examiner	Q.No.	Section B Tick (✓) Here	Examiner
A-1			B-1		
A-2			B-2		
A-3			B-3		
A-4			B-4		
A-5			B-5		
A-6			B-6		
A-7			B-7		
A-8			B-8		
A-9			B-9		
A-10			B-10		
A-11			-	-	-
A-12			-	-	-
A-13			-	-	-
A-14			-	-	
A-15			-	-	
Total			-	-	
Sign.			-	-	

\_\_\_\_\_  
Signature of the Invigilator

Total Marks (Paper II) \_\_\_\_\_

Head Examiner: \_\_\_\_\_

Scrutinizer: \_\_\_\_\_



PAPER IIINSTRUCTIONS

1. Paper II consists of Sections A and B.
2. Fill your MET 2018 REGISTRATION NUMBER and put your signature where asked for.
3. Answers to the questions selected must be written in serial order on the blank pages provided for the purpose. Begin each answer on a fresh page.
4. Write your answers in English only. A pencil may be used only to draw diagrams.
5. Tick ( $\checkmark$ ) the serial number of the questions attempted in Sections A and B on both the cover pages.

PAPER II

Section – A

Write short notes (approximately 250 words each) on ANY FIVE of the following. Each short note carries 6 marks. The short notes are to be written on the blank pages provided for this purpose after the end of Section-B in this booklet.

- A-1 Caste amongst Muslims or Christians in India
- A-2 Gramsci on Civil Society and Hegemony
- A-3 Can sociology be value-free?
- A-4 Negative Externality and Market Failure
- A-5 Supply curve of a price-discriminating monopolist
- A-6 Kuznet's puzzle and Life Cycle Hypothesis
- A-7 Explain different kinds of memory improvement techniques.
- A-8 Explain the major theories of emotion.
- A-9 Define working memory? Explain the three main components of Baddeley and Hitch's model of working memory.
- A-10 SC/ST (Prevention of Atrocities) Act
- A-11 Electronic Voting Machines and electoral processes in India
- A-12 The social profile of the Indian judiciary
- A-13 Social media and the privacy debate
- A-14 The Rohingya refugee crisis and international response
- A-15 Indian Constitution and minority rights

END OF SECTION A (PAPER II)

PAPER II  
Section – B

Answer ANY TWO of the following questions in approximately 750 words each. Each question carries 15 marks. Answers must be written on the blank pages provided at the end of this section. Please respond to the questions closely and *make specific arguments rather than general comments* as far as possible.

B-1. Joymala is a lecturer in Physics at a college. She has deep faith in spirituality and religion. Sitaram, her husband is a full time political worker affiliated with a Marxist political party. They have had an arranged marriage and live with their only daughter Mukta (25 years) in Mumbai. Mukta, a costume designer, is in love with a man of same caste and wants to marry him under the *saptapadi* rituals. Sitaram and Joymala are agreeable to the marriage but Sitaram is averse to the *saptapadi* ritual as he feels that such brahmanic rituals consider women subordinate partners in marriage. He is also concerned that some of their friends may not approve of this ritual. They decide however to go ahead with the ritual as per their daughter's wishes. A middle path is worked out, the *saptapadi* ritual is organised on the morning of the wedding where only close family members are invited and the reception in the evening is kept open to all friends and family.

Based on the above, comment on the dynamics of public and private life and the intersections of community and individual under contemporary modernity. Refer to any scholar/scholars of your interest.

B.2 What is ethnography? How is it critical in social research? Discuss any contemporary or classical ethnography of your interest. Elaborate its contribution to sociological knowledge.

B-3 Efficacy of Monetary Policy under the case of interest insensitive investment

B-4 Agricultural distress, Agricultural credit and Rural Indebtedness in India

B-5 Explain behaviorism, cognitive and constructivist theories of learning.

B-6 Explain the theories of attention

B-7 Critically comment on the recent legalization of passive euthanasia in India.

B-8 Write an essay on 'Water Wars' with reference to inter-state rivalries in India.

B-9 Critically analyze the public policy choices and developmental debates that are raised by the following case from India.

A deposit of precious mineral ores is discovered in a forest that is known for its biodiversity and wildlife. The forest is also home to several groups of indigenous people who depend on the forest for their livelihood and also regard segments of the forest as sacral land. The government has sought to lease the land to a mining company who has promised to generate employment for the local population. The Ministry of Environment & Forest (MOEF) has cleared the project without community based discussions about it in 2005.

B-10 "The invisibility of women in rural development programs was more paradoxical if we consider that according to an FAO estimate about 50% of the world's food for direct consumption is produced by women.... We may assume that ... development finds support in existing patriarchal structures (both in developed and in developing countries) to organize a particular economy of visibility" (Escobar, *Encountering Development*, 1995, p.173). Discuss.

- PAPER ENDS -

