

Question Booklet No.

(To be filled up by the candidate by **blue/black ball-point pen**)Roll No.

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Roll No. (Write the digits in words)

Serial No. of OMR Answer Sheet

Day and Date

(Signature of Invigilator)

INSTRUCTIONS TO CANDIDATES(Use only **blue/black ball-point pen** in the space above and on both sides of the OMR Answer Sheet)

1. Within 30 minutes of the issue of the Question Booklet, check the Question Booklet to ensure that it contains all the pages in correct sequence and that no page/question is missing. In case of faulty Question Booklet bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet.
2. Do not bring any loose paper, written or blank, inside the Examination Hall except the Admit Card without its envelope.
3. A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Sheet shall not be provided. Only the Answer Sheet will be evaluated.
4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided above.
5. On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.
6. No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and also Roll No. and OMR Sheet No. on the Question Booklet.
7. Any changes in the aforesaid entries is to be verified by the invigilator, otherwise it will be taken as unfair means.
8. Each question in this Booklet is followed by four alternative answers. For each question, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by ball-point pen as mentioned in the guidelines given on the first page of the Answer Sheet.
9. For each question, darken only one circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
10. Note that the answer once filled in ink cannot be changed. If you do not wish to attempt a question, leave all the circles in the corresponding row blank (such question will be awarded zero marks).
11. For rough work, use the inner back page of the title cover and the blank page at the end of this Booklet.
12. Deposit only the OMR Answer Sheet at the end of the Test.
13. You are not permitted to leave the Examination Hall until the end of the Test.
14. If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the University may determine and impose on him/her.

[उपर्युक्त निर्देश हिन्दी में अन्तिम आवरण-पृष्ठ पर दिये गये हैं।]

Total No. of Printed Pages : 16

FOR ROUGH WORK / रफ़ कार्य के लिए

M. Phil. Ph. D. & R. E. T. – 2017

No. of Questions : 60

प्रश्नों की संख्या : 60

Time : 1 Hour

Full Marks : 180

समय : 1 घण्टा

पूर्णांक : 180

Note : Each question carries 3 marks. *One mark will be deducted for each incorrect answer.*

प्रत्येक प्रश्न 3 अंक का है। प्रत्येक गलत उत्तर के लिए एक अंक काटा जाएगा।

(i) Each question is followed by *four* alternative answers. Only *one* of these answers is correct. Select the correct answer and indicate it in the appropriate circle on OMR Answer Sheet provided, by darkening the circle, using Ball Point Pen.

प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं। इनमें से केवल एक उत्तर सही है। सही उत्तर चुनिए तथा उसे दिये गये उत्तर-पत्र के अभीष्ट गोले में बॉल प्वाइन्ट पेन से काला करके इंगित कीजिए।

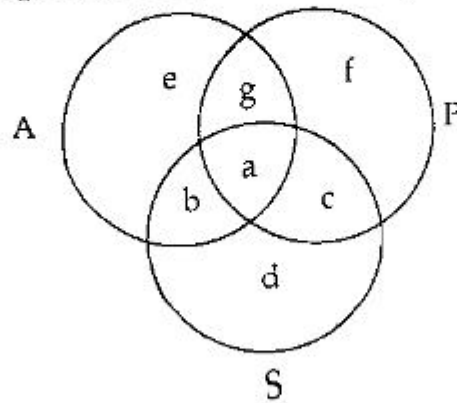
(ii) Attempt *all* questions from Sl. No. 1 to 40.

क्रम संख्या 1 से 40 तक *सभी* प्रश्नों को हल करना है।

(iii) Out of *three* sets of questions on languages (41 to 50 Hindi, 51 to 60 English and 61 to 70 Sanskrit), attempt only *two* sets. Thus, a candidate is required to answer in all 60 (sixty) questions only.

तीन भाषाओं के प्रश्न (41 से 50 हिन्दी, 51 से 60 अंग्रेजी तथा 61 से 70 संस्कृत) में से किन्हीं दो भाषाओं के प्रश्न ही हल करने हैं। इस प्रकार परीक्षार्थी को कुल 60 प्रश्नों के उत्तर देने हैं।

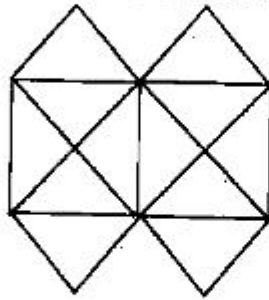
Direction : (Q. No. 1, 2 and 3) : In three interlocking circles A, P and S, where in circle A stands for artists, circle P stands for professors and circle S stands for sportspersons. Different regions in the figure are lettered from a to g as shown below :



Based on above direction :

1. Which of the region which represents artists who are neither sportsmen nor professors ?
 (1) d (2) e (3) b (4) g
2. The region which represents professors who are both artists and sportspersons :
 (1) a (2) c (3) d (4) g
3. The region which represents professors who are also sportspersons but not artists :
 (1) e (2) f (3) c (4) g
4. If P denotes '+', R denotes 'x', S denotes '-' and T denotes '÷', then what will be the value of $5R9P7S9T3P6$?
 (1) 55 (2) 54 (3) 39 (4) 128
5. The next term in the following alpha-numeric series is :
 A1Z, E2V, I6R, M21N, Q88J, ?
 (1) F445U (2) U445F (3) G342C (4) V441G

6. How many triangles are there in the following figure ?



- (1) 20 (2) 22 (3) 16 (4) 24
7. If TAMILNAD is coded as 387241859. How DALMIA will be coded ?
(1) 584278 (2) 584728 (3) 584782 (4) 548728
8. In a row of boys, Ram is 11th from the right and Mohan is 15th from the left. If Ram is 12th from Mohan, what is the total number of boys in the row ?
(1) 36 (2) 37 (3) 38 (4) 39
9. The average of seven numbers 7, 9, 12, x , 5, 4, 11 is 9. What is missing number x ?
(1) 13 (2) 15 (3) 14 (4) 8
10. A one-rupee coin is placed on a paper. How many coins of the same size can be placed around it, so that each one touches the central and adjacent coins ?
(1) 3 (2) 4 (3) 6 (4) 7
11. The average age of 19 boys in a class is 21 years. If the teacher's age is included, the average age increased to 22 years. What is the teacher's age ?
(1) 39 years (2) 41 years (3) 40 years (4) 44 years
12. There were a total of 10 bicycles and tricycles. If the total number of wheels was 24, how many tricycles were there ?
(1) 2 (2) 6 (3) 18 (4) 4
13. A box contains 10 green and 8 yellow balls. In how many ways, two balls of the same colour can be drawn ?
(1) 28 (2) 36 (3) 54 (4) 73

14. If the circumference of a circle is equal to the perimeter of a square, find the ratio of the area of the circle to the area of the square :
- (1) $\pi : 2$ (2) $2 : \pi$ (3) $4 : \pi$ (4) $\pi : 4$
15. If $2 \sin 30^\circ + \tan 60^\circ = \cos^2 \theta + \cos \theta + \sqrt{3} - 1$ and $0 \leq \theta \leq \frac{\pi}{2}$, then θ is equal to :
- (1) 0° (2) 45° (3) 60° (4) 90°
16. If the height of a pole is $2\sqrt{3}$ m and the length of its shadow is 2 m, then angle of elevation of the sun is equal to :
- (1) 30° (2) 45° (3) 60° (4) 90°
17. The H. C. F. and L. C. M. of two polynomials is $(x - 2)$ and $(x^3 + 6x^2 - x - 30)$ respectively. If one of the polynomials is $(x^2 + x - 6)$, then the other polynomial is :
- (1) $x^2 - 7x + 10$ (2) $x^2 - 5x + 10$ (3) $x^2 - 4x + 10$ (4) $x^2 + 3x - 10$
18. If $4^x = 1024$, then 6^{2x-8} is :
- (1) 36 (2) 12 (3) 6 (4) 3
19. If $yz : zx : xy = 1 : 2 : 3$, then $\frac{x}{yz} + \frac{y}{zx}$ is :
- (1) 1 : 4 (2) 1 : 2 (3) 3 : 2 (4) 4 : 1
20. The device that is used to forward data packets from one network to another is :
- (1) Hub (2) Modem (3) Router (4) All of the above
21. On 17th July, 2017, voting in India took place for which of the following post ?
- (1) President (2) Vice-President
(3) Speaker of Lok Sabha (4) Speaker of Rajya Sabha
22. On which day, the present form of national flag of India was adopted ?
- (1) 22nd July, 1947 (2) 15th August, 1947
(3) 26th January, 1950 (4) 26th January, 1947

23. In which of the following year, Right to Education Act was implemented ?
(1) 2009 (2) 2010 (3) 2011 (4) 2012
24. Among the following, who is presently the Governor of Reserve Bank of India ?
(1) Y. V. Reddy (2) D. Subba Rao
(3) Raghuram Rajan (4) Urjit Patel
25. On which date, International Yoga Day is celebrated ?
(1) 21st April (2) 21st May (3) 21st June (4) 21st August
26. Who was the first Indian Governor General of India ?
(1) Motilal Nehru (2) Gopal Krishna Gokhale
(3) Sardar Patel (4) Chakravarti Rajagopalachari
27. Who was the Chairman of the Fourteenth Finance Commission in India ?
(1) Y. V. Reddy (2) Abhijit Sen
(3) Vijay Kelkar (4) Sushma Nath
28. Redcliffe line defines boundary between :
(1) North Korea and South Korea (2) U. S. A. and Canada
(3) India and Pakistan (4) India and China
29. The decadal growth rate of population during 2001-2011 was maximum in the state of :
(1) Bihar (2) Rajasthan
(3) Madhya Pradesh (4) Uttar Pradesh
30. Goods and Services Tax (GST) has been introduced in India with effect from :
(1) May 1, 2017 (2) June 1, 2017 (3) July 1, 2017 (4) July 1, 2016

31. What is LINUX ?
- (1) Malware (2) Operating System
(3) Application program (4) Firmware
32. A list of instructions used by a computer is called :
- (1) Text (2) Program (3) CPU (4) Output
33. GUI stands for :
- (1) Graphic Unit Interface
(2) Graphical User Interface
(3) Graphical User Interact
(4) Graphics Used Interface
34. Which of the following is a correct format of Email address ?
- (1) name@website@info
(2) name@website.info
(3) www.nameofebsite.com
(4) name.website.com
35. Computer Virus is a :
- (1) Hardware (2) Software (3) Freeware (4) Bacteria
36. What is "RANSOMEWARE" ?
- (1) Android App (2) Malicious Software
(3) Anti-Virus (4) Firewall
37. Wi-Fi stands for :
- (1) Wireless Fidelity (2) Wireless Functionality
(3) Wired Flexibility (4) Wide Fixed

38. An e-mail cannot be sent to :
- (1) A receiver, if he is offline
 - (2) A person who has email account on some other email service provider
 - (3) Many people at a time
 - (4) A person whose email ID is unknown but office address is known
39. Uploading files to a distant computer is done by :
- (1) Telnet
 - (2) Chatting
 - (3) FTP
 - (4) Video Conferencing
40. What do you understand by Digital Signature ?
- (1) Electronic signature that encrypts documents to promote paperless transactions
 - (2) Scanned copy of signed paper
 - (3) Signed by pen but using digits on paper
 - (4) Scanned signature and pasted over the document

HINDI LANGUAGE

हिन्दी भाषा

[Q. No. 41 to 50]

41. "फूले कास सकल महि छाई।
जनु बरसा रितु प्रकट बुढ़ाई।।"
- उपर्युक्त काव्य-पंक्तियों में कौन-सा अलंकार है ?
- (1) उपमा
 - (2) रूपक
 - (3) उल्लेख
 - (4) परिकरांकुर
42. निम्नलिखित शब्द 'तकनीकी शब्दावली' प्रकृति का है :
- (1) टेलीफोन
 - (2) उपबन्ध
 - (3) अट्टालिका
 - (4) समायु

43. 'सॉप छछूंदर की गति होना - मुहावरे का अर्थ है :

- (1) शान घटना (2) विस्तृत अनुभव होना
(3) दुविधा में पड़ना (4) काम खराब होना

44. 93 की मानक वर्तनी है :

- (1) तिरानदे (2) तिरानबे (3) तिरान्ने (4) तिरान्बे

45. 'ध्वंस' शब्द के सही विलोम का चयन कीजिए :

- (1) सृष्टि (2) रचना (3) निर्माण (4) सृजन

46. लिंग की दृष्टि से 'दही' क्या है ?

- (1) पुल्लिंग (2) स्त्रीलिंग (3) नपुंसक लिंग (4) उभयलिंग

47. 'चिड़िया आकाश में उड़ रही है' - वाक्य में 'उड़ रही' क्रिया किस प्रकार की है ?

- (1) सकर्मक (2) अकर्मक (3) समापिका (4) असमापिका

48. 'वह घर पहुँच गया।' - इस वाक्य में 'पहुँच गया' निम्नांकित में से किस क्रिया का उदाहरण है ?

- (1) प्रेरणार्थक क्रिया (2) संयुक्त क्रिया
(3) पूर्वकालिक क्रिया (4) द्विकर्मक क्रिया

49. निम्नलिखित में कौन-सा वाक्य शुद्ध है ?

- (1) श्याम ने पेट भर मिठाई खाई।
(2) श्याम ने पेट भर के मिठाई खाई।
(3) श्याम ने भरपेट मिठाई खाई।
(4) श्याम ने भर-भर पेट मिठाई खाई।

50. निम्नलिखित में से शुद्ध वाक्य का चयन कीजिए :

- (1) वह दण्ड के योग्य है। (2) वह दण्ड देने योग्य है।
(3) वह दण्ड लेने योग्य है। (4) वह दण्ड पाने योग्य है।

ENGLISH LANGUAGE

अंग्रेजी भाषा

[Q. No. 51 to 60]

Note : Read the passage and answer the questions that follow :

It happened one day, about noon, going towards my boat; I was exceedingly surprised with the print of a man's naked foot on the shore, which was very plain to be seen in the sand. I stood like one thunder-struck, or as if I had seen an apparition. I listened, I looked around me, I could hear nothing, nor see anything. I went up the shore, and down the shore, but it was all one, I could see no other impression but that one. I went to it again to see if there were any more, and to observe if it might not be my fancy; but there was no room for that for there was exactly the very print of a foot – toes, heel and every part of a foot.

51. What did the author do on finding the footprints ?
- (1) Did not pay much attention to it
 - (2) Observed it with curiosity
 - (3) Started dancing with joy
 - (4) Ran away from the place
52. Which of the following words best denotes the author's emotions at seeing the footprint ?
- (1) Curiosity (2) Indifference (3) Happiness (4) Tiresomeness
53. How does the author convince himself that the footprint is a real one ?
- (1) By seeing the person who made it
 - (2) By being informed by a witness
 - (3) By pondering over it
 - (4) By examining it carefully and noticing its details

54. After seeing the footprints, what was the first thing done by the author ?

- (1) He went down the shore (2) He saw an apparition
(3) He looked around himself (4) He went up the shore

Note : Identify the part of the sentence having an error in it :

55. Ravi was unhappy (1) / that he would (2) / not attend the farewell (3) / of his friend yesterday (4)

Note : Identify the synonyms from the four alternatives given below :

56. Bountiful :

- (1) pretty (2) generous
(3) spiritual (4) shameful

Note : Identify the antonyms from the four alternatives given below :

57. Euphoria :

- (1) elation (2) transport (3) depression (4) significant

Note : Select the word that can be the substitute for the given words/phrase :

58. An instrument for detecting earthquake :

- (1) Seismograph (2) monograph (3) polygraph (4) holograph

Note : Choose the correctly spelt word from the given options :

59. (1) occasional (2) ocasional (3) occassional (4) occasionel

Note : Choose the correct preposition from the given options :

60. There is no exception this rule.

- (1) for (2) by (3) to (4) in

SANSKRIT LANGUAGE

संस्कृत भाषा

[Q. No. 61 to 70]

61. 'संगच्छ्वं संवदध्वम्' कुत्र कथितम् ?
 (1) ऋग्वेदे (2) गीतायाम् (3) रामायणे (4) महाभारते
62. विद्यावतां वाचि किं विराजते ?
 (1) धनम् (2) भवनम् (3) वस्त्रम् (4) सरस्वती
63. पाठकगुणेषु किम् न आयाति ?
 (1) माधुर्यम् (2) विलम्बितम् (3) धैर्यम् (4) अक्षरव्यक्तिः
64. 'शारदः' इत्यस्य कोऽर्थः ?
 (1) सरस्वती (2) ऋतुः (3) कालः (4) शरत्कालीनः
65. शिष्यः आचार्यात् कियत् आदत्ते ?
 (1) अर्धपादम् (2) पादम् (3) अर्धम् (4) सम्पूर्णम्
66. कीदृशी वाणी पुरुषं प्रसन्नं करोति ?
 (1) मधुरभाषिणी (2) शीतली
 (3) चन्दनरसयुक्ता (4) छायेव सुखदा
67. अधोलिखितेषु कस्य अर्थः 'चतुर्थाशः' ?
 (1) पादम् (2) पादद्वयम् (3) पदम् (4) पादैक्यम्
68. 'अम्भोजः' इत्यस्य पर्यायः कः ?
 (1) पयोदः (2) सरः (3) चन्द्रः (4) पुष्पम्

69. केन समं तपः न विद्यते ?

- (1) विद्यासमम् (2) सत्यसमम् (3) रागसमम् (4) त्यागसमम्

70. 'अभिज्ञानशाकुन्तलस्य' कर्ता कः ?

- (1) कालिदासः (2) शूद्रकः (3) भासः (4) हर्षः

FOR ROUGH WORK / रफ कार्य के लिए

अभ्यर्थियों के लिए निर्देश

(इस पुस्तिका के प्रथम आवरण-पृष्ठ पर तथा ओ०एम०आर० उत्तर-पत्र के दोनों पृष्ठों पर केवल नीली/काली बाल-प्वाइंट पेन से ही लिखें)

1. प्रश्न पुस्तिका मिलने के 30 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मौजूद हैं और कोई प्रश्न छूटा नहीं है। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष निरीक्षक को देकर सम्पूर्ण प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।
2. परीक्षा भवन में लिफाफा रहित प्रवेश-पत्र के अतिरिक्त, लिखा या सादा कोई भी खुला कागज साथ में न लायें।
3. उत्तर-पत्र अलग से दिया गया है। इसे न तो मोड़ें और न ही विकृत करें। दूसरा उत्तर-पत्र नहीं दिया जायेगा। केवल उत्तर-पत्र का ही मूल्यांकन किया जायेगा।
4. अपना अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पेन से निर्धारित स्थान पर लिखें।
5. उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों को गाढ़ा कर दें। जहाँ-जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर लिखें।
6. ओ० एम० आर० पत्र पर अनुक्रमांक संख्या, प्रश्न-पुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रश्न-पुस्तिका पर अनुक्रमांक संख्या और ओ० एम० आर० पत्र संख्या की प्रविष्टियों में उपरिलेखन की अनुमति नहीं है।
7. उपर्युक्त प्रविष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुचित साधन का प्रयोग माना जायेगा।
8. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं। प्रत्येक प्रश्न के वैकल्पिक उत्तर के लिये आपको उत्तर-पत्र की सम्बन्धित पंक्ति के सामने दिये गये वृत्त को उत्तर-पत्र के प्रथम पृष्ठ पर दिये गये निर्देशों के अनुसार बाल-प्वाइंट पेन से गाढ़ा करना है।
9. प्रत्येक प्रश्न के उत्तर के लिये केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाढ़ा करने पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा।
10. ध्यान दें कि एक बार स्याही द्वारा अंकित उत्तर बदला नहीं जा सकता है। यदि आप किसी प्रश्न का उत्तर नहीं देना चाहते हैं, तो सम्बन्धित पंक्ति के सामने दिये गये सभी वृत्तों को खाली छोड़ दें। ऐसे प्रश्नों पर शून्य अंक दिये जायेंगे।
11. रफ कार्य के लिये इस पुस्तिका के मुखपृष्ठ के अंदर वाला पृष्ठ तथा अंतिम खाली पृष्ठ का प्रयोग करें।
12. परीक्षा के उपरान्त केवल ओ० एम० आर० उत्तर-पत्र ही परीक्षा भवन में जमा करें।
13. परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमति नहीं होगी।
14. यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित दंड का/की भागी होगा/होगी।

SEAL